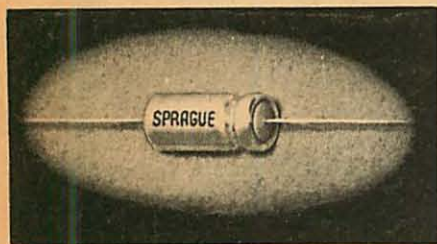


SPRAGUE CAPACITORS

TYPE 130D 125°C SINTERED-ANODE TANTALEX® CAPACITORS



DIMENSIONS

Code	D x L	Code	D x L	Code	D x L	Code	D x L
C	1 3/4 x 3 3/4	F	1 1/4 x 4 5/4	T	2 3/4 x 5 3/4	W	2 3/4 x 1 3/4

- Reliable, Superior Quality Capacitors With no Voltage Derating for 125C Operation.
- Especially Suited for Military Electronics.
- Meets 2000 Cycle MIL Missile Vibration Requirements.
- Clean, Shoulder-Less Design Simplifies Mounting on Printed Wiring Boards.
- Voltage Ratings From 4 WVDC Through 100 WVDC.
- Capacitances from 1.7 μ F to 1200 μ F.
- For Complete Technical Data, Refer to the Latest Issue of Sprague Engineering Bulletin No. 3701.
- Listed Units Have Plastic Film Insulation. For Bare Metal Cases, Change Last Digit of Cat. No. to "O".
- Call Your Sprague Industrial Distributor for Current Quantity Prices.

GROUP 1: +20%, -15% and \pm 10% Capacitance Tolerance with plastic insulation tube

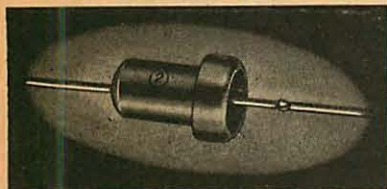
μ F	Size Code	Catalog Number		μ F	Size Code	Catalog Number		μ F	Size Code	Catalog Number	
		+20, -15% Tol.	\pm 10% Tol.			+20, -15% Tol.	\pm 10% Tol.			+20, -15% Tol.	\pm 10% Tol.
4 WORKING VOLTS D-C											
30	C	130D306C2004C2	130D306X9004C2	10	C	130D106C2015C2	130D106X9015C2	3.5	C	130D355C2050C2	130D355X9050C2
140	F	130D147C2004F2	130D147X9004F2	50	F	130D506C2015F2	130D506X9015F2	15	F	130D156C2050F2	130D156X9050F2
330	T	130D337C2004T2	130D337X9004T2	110	T	130D117C2015T2	130D117X9015T2	40	T	130D106C2050T2	130D106X9050T2
5 WORKING VOLTS D-C											
25	C	130D256C2005C2	130D256X9005C2	8	C	130D805C2020C2	130D805X9020C2	2.5	C	130D255C2070C2	130D255X9070C2
120	F	130D127C2005F2	130D127X9005F2	40	F	130D406C2020F2	130D406X9020F2	11	F	130D116C2070F2	130D116X9070F2
290	T	130D297C2005T2	130D297X9005T2	100	T	130D107C2020T2	130D107X9020T2	30	T	130D306C2070T2	130D306X9070T2
7 WORKING VOLTS D-C											
20	C	130D206C2007C2	130D206X9007C2	5	C	130D505C2030C2	130D505X9030C2	1.7	C	130D175C2085C2	130D175X9085C2
100	F	130D107C2007F2	130D107X9007F2	25	F	130D256C2030F2	130D256X9030F2	9	F	130D905C2085F2	130D905X9085F2
250	T	130D257C2007T2	130D257X9007T2	60	T	130D606C2030T2	130D606X9030T2	18	T	130D186C2085T2	130D186X9085T2
10 WORKING VOLTS D-C											
15	C	130D156C2010C2	130D156X9010C2	4	C	130D405C2040C2	130D405X9040C2	1.7	C	130D175C2100C2	130D175X9100C2
70	F	130D706C2010F2	130D706X9010F2	20	F	130D206C2040F2	130D206X9040F2	6.8	F	130D685C2100F2	130D685X9100F2
170	T	130D177C2010T2	130D177X9010T2	50	T	130D506C2040T2	130D506X9040T2	14	T	130D146C2100T2	130D146X9100T2

GROUP 2: \pm 20% and \pm 10% Capacitance Tolerance with plastic insulation tube

μ F	Size Code	Catalog Number		μ F	Size Code	Catalog Number		μ F	Size Code	Catalog Number					
		\pm 20% Tol.	\pm 10% Tol.			\pm 20% Tol.	\pm 10% Tol.			\pm 20% Tol.	\pm 10% Tol.				
4 WORKING VOLTS D-C															
68	C	130D686X0004C2	130D686X9004C2	100	F	130D107X0015F2	130D107X9015F2	50 WORKING VOLTS D-C							
270	F	130D277X0004F2	130D277X9004F2	180	T	130D187X0015T2	130D187X9015T2	6.8	C	130D685X0050C2	130D685X9050C2				
560	T	130D567X0004T2	130D567X9004T2	350	W	130D357X0015W2	130D357X9015W2	33	F	130D336X0050F2	130D336X9050F2				
1200	W	130D128X0004W2	130D128X9004W2	20 WORKING VOLTS D-C											
5 WORKING VOLTS D-C															
850	W	130D857X0005W2	130D857X9005W2	15	C	130D156X0020C2	130D156X9020C2	56	T	130D566X0050T2	130D566X9050T2				
7 WORKING VOLTS D-C															
47	C	130D476X0007C2	130D476X9007C2	68	F	130D686X0020F2	130D686X9020F2	110	W	130D117X0050W2	130D117X9050W2				
180	F	130D187X0007F2	130D187X9007F2	150	T	130D157X0020T2	130D157X9020T2	70 WORKING VOLTS D-C							
390	T	130D397X0007T2	130D397X9007T2	300	W	130D307X0020W2	130D307X9020W2	4.7	C	130D475X0070C2	130D475X9070C2				
750	W	130D757X0007W2	130D757X9007W2	30 WORKING VOLTS D-C											
10 WORKING VOLTS D-C															
33	C	130D336X0010C2	130D336X9010C2	10	C	130D106X0030C2	130D106X9030C2	22	F	130D226X0070F2	130D226X9070F2				
120	F	130D127X0010F2	130D127X9010F2	47	F	130D476X0030F2	130D476X9030F2	43	T	130D436X0070T2	130D436X9070T2				
270	T	130D277X0010T2	130D277X9010T2	82	T	130D826X0030T2	130D826X9030T2	86	W	130D866X0070W2	130D866X9070W2				
540	W	130D547X0010W2	130D547X9010W2	160	W	130D167X0030W2	130D167X9030W2	85 WORKING VOLTS D-C							
15 WORKING VOLTS D-C															
22	C	130D226X0015C2	130D226X9015C2	8.2	C	130D825X0040C2	130D825X9040C2	3.6	C	130D365X0085C2	130D365X9085C2				
40 WORKING VOLTS D-C															
39	F	130D396X0040F2	130D396X9040F2	39	F	130D396X0040F2	130D396X9040F2	14	F	130D146X0085F2	130D146X9085F2				
68	T	130D686X0040T2	130D686X9040T2	68	T	130D686X0040T2	130D686X9040T2	25	T	130D256X0085T2	130D256X9085T2				
140	W	130D147X0040W2	130D147X9040W2	140	W	130D147X0040W2	130D147X9040W2	56	W	130D566X0085W2	130D566X9085W2				
100 WORKING VOLTS D-C															
3	C	130D305X0100C2	130D305X9100C2	3	C	130D305X0100C2	130D305X9100C2	11	F	130D116X0100F2	130D116X9100F2				
11	F	130D116X0100F2	130D116X9100F2	22	T	130D226X0100T2	130D226X9100T2	22	T	130D226X0100T2	130D226X9100T2				

SPRAGUE CAPACITORS

"CUP STYLE" TANTALEX® CAPACITORS



Size Code	Dimensions		CALL YOUR SPRAGUE DISTRIBUTOR FOR QUANTITY PRICES
	Dia. x Length		
U	7/32 x 15/32		
V	9/32 x 11/16		
T	3/8 x 49/64		

- -55C to +85C Operation at Full Rating. 100C Operation With 15% Derating.
- Stable in Performance Characteristics Over Entire Temperature Range.
- Large Capacitance in Small Size.
- Extremely Low Leakage Currents.
- 132D Designed to Withstand Severe Military Vibration Tests. Also Available as CL44 and CL45 Capacitors to Meet MIL-C-3965. See MIL Listings Elsewhere in These Pages.
- For Plastic Tube on units, change "0" to "4" at End of Cat. No.
- For Complete Technical Data Refer to Latest Issue of Engineering Bulletin 3710 and 3711.

VIBRATION-PROOF TYPE 132D

μF	Size Code	Catalog Number		μF	Size Code	Catalog Number		μF	Size Code	Catalog Number	
		±10%	-15, +20% Tol.			±10%	-15, +20% Tol.			±10%	-15, +20% Tol.
6 WVDC — 7 VDC SURGE				25 WVDC — 30 VDC SURGE				75 WVDC — 87 VDC SURGE			
30	U	132D306X9006U0	132D306C2006U0	10	U	132D106X9025U0	132D106C2025U0	3.5	U	132D355X9075U0	132D355C2075U0
140	V	132D147X9006V0	132D147C2006V0	30 WVDC — 36 VDC SURGE				15	V	132D156X9075V0	132D156C2075V0
320	T	132D327X9006T0	132D327C2006T0	8	U	132D805X9030U0	132D805C2030U0	40	T	132D406X9075T0	132D406C2075T0
8 WVDC — 10 VDC SURGE				40	V	132D406X9030V0	132D406C2030V0	100 WVDC — 115 VDC SURGE			
25	U	132D256X9008U0	132D256C2008U0	100	T	132D107X9030T0	132D107C2030T0	2	U	132D205X9100U0	132D205C2100U0
10 WVDC — 12 VDC SURGE				50 WVDC — 60 VDC SURGE				11	V	132D116X9100V0	132D116C2100V0
20	U	132D206X9010U0	132D206C2010U0	5	U	132D505X9050U0	132D505C2050U0	30	T	132D306X9100T0	132D306C2100T0
100	V	132D107X9010V0	132D107C2010V0	25	V	132D256X9050V0	132D256C2050V0	125 WVDC — 140 VDC SURGE			
250	T	132D257X9010T0	132D257C2010T0	60	T	132D606X9050T0	132D606C2050T0	1.7	U	132D175X9125U0	132D175C2125U0
15 WVDC — 18 VDC SURGE				60 WVDC — 72 VDC SURGE				9	V	132D905X9125V0	132D905C2125V0
15	U	132D156X9015U0	132D156C2015U0	4	U	132D405X9060U0	132D405C2060U0	25	T	132D256X9125T0	132D256C2125T0
70	V	132D706X9015V0	132D706C2015V0	20	V	132D206X9060V0	132D206C2060V0				
170	T	132D177X9015T0	132D177C2015T0	50	T	132D506X9060T0	132D506C2060T0				

VIBRATION-PROOF TYPE 133D

- -55C to +125C Operation at Full Rating. May Be Up-Rated 50% for Operation at 85C.
- Meet Stringent Requirements in Military and Missile Applications.
- Sintered Anode for Unusual Capacitance Stability, Large Values of Capacitance in Small Physical Size.
- Non-Tarnish Finish to Prevent Discoloration During Storage or Use.
- For Units With Outer Plastic Insulating Tube, Substitute "4" for "0" at End of Catalog Number.
- Housed in Miniature Silver Thimble.

μF	Size Code	Catalog Number		μF	Size Code	Catalog Number		μF	Size Code	Catalog Number	
		-15, +20% Tol.	±10%			-15, +20% Tol.	±10%			-15, +20% Tol.	±10%
4 WORKING VOLTS D-C				15 WORKING VOLTS D-C				50 WORKING VOLTS D-C			
30	U	133D306C2004U0	133D306X9004U0	10	U	133D106C2015U0	133D106X9015U0	3.5	U	133D355C2050U0	133D355X9050U0
140	V	133D147C2004V0	133D147X9004V0	20 WORKING VOLTS D-C				15	V	133D156C2050V0	133D156X9050V0
320	T	133D327C2004T0	133D327X9004T0	8	U	133D805C2020U0	133D805X9020U0	40	T	133D406C2050T0	133D406X9050T0
5 WORKING VOLTS D-C				40	V	133D406C2020V0	133D406X9020V0	70 WORKING VOLTS D-C			
25	U	133D256C2005U0	133D256X9005U0	100	T	133D107C2020T0	133D107X9020T0	2	U	133D205C2070U0	133D205X9070U0
7 WORKING VOLTS D-C				30 WORKING VOLTS D-C				11	V	133D116C2070V0	133D116X9070V0
20	U	133D206C2007U0	133D206X9007U0	5	U	133D505C2030U0	133D505X9030U0	30	T	133D306C2070T0	133D306X9070T0
100	V	133D107C2007V0	133D107X9007V0	25	V	133D256C2030V0	133D256X9030V0	85 WORKING VOLTS D-C			
250	T	133D257C2007T0	133D257X9007T0	60	T	133D606C2030T0	133D606X9030T0	1.7	U	133D175C2085U0	133D175X9085U0
10 WORKING VOLTS D-C				40 WORKING VOLTS D-C				9	V	133D905C2085V0	133D905X9085V0
15	U	133D156C2010U0	133D156X9010U0	4	U	133D405C2040U0	133D405X9040U0	25	T	133D256C2085T0	133D256X9085T0
70	V	133D706C2010V0	133D706X9010V0	20	V	133D206C2040V0	133D206X9040V0				
170	T	133D177C2010T0	133D177X9010T0	50	T	133D506C2040T0	133D506X9040T0				

SPRAGUE CAPACITORS

MIL-C-3965 FOIL TANTALUM CAPACITORS TYPES CL24 & CL25



DIMENSIONS

Code	D. x L.	Code	D. x L.
D	1 $\frac{1}{4}$ x 3 $\frac{1}{4}$	M	2 $\frac{1}{4}$ x 2 $\frac{1}{8}$
G	1 $\frac{1}{4}$ x 1 $\frac{1}{8}$	P	2 $\frac{1}{4}$ x 2 $\frac{1}{8}$
J	2 $\frac{1}{4}$ x 1 $\frac{1}{2}$		

- For -55C to +85C Operation up to 150 Volts in Military and Industrial Electronic Equipment.
- Low Leakage Current and Stable Temperature Coefficient Makes Possible Its Use in Many Circuits Where Aluminum Foil Designs Are Undesirable.
- The Electrolyte System Used Assures Long Operating and Shelf Life, ex-

cellent Low Temperature Performance, Chemical Stability and Inertness.

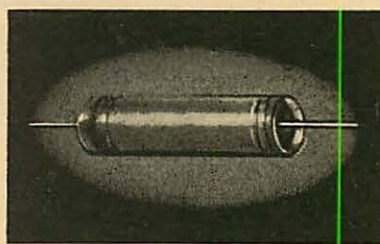
- Dimensions Listed Are For Bare Metal-Case. For Insulated Case Add $\frac{1}{64}$ " to Diameter and $\frac{1}{8}$ " to Length.
- MIL Version of Sprague Type 112D.
- Type CL24 Is a Bare Metal-Case Unit. If An Outer Insulating Sleeve Is Desired, Order Type CL25.
- For Quantity Prices See Your Sprague Industrial Distributor.

μ F	WVDC	Size Code	Military Designation*	
15	15	D	CL24BE150UP3	CL25BE150UP3
60	15	G	CL24BE600UP3	CL25BE600UP3
200	15	J	CL24BE201UP3	CL25BE201UP3
400	15	M	CL24BE401UP3	CL25BE401UP3
580	15	P	CL24BE581UP3	CL25BE581UP3
10	25	D	CL24BG100UP3	CL25BG100UP3
40	25	G	CL24BG400UP3	CL25BG400UP3
120	25	J	CL24BG121UP3	CL25BG121UP3
250	25	M	CL24BG251UP3	CL25BG251UP3
350	25	P	CL24BG351UP3	CL25BG351UP3
8	30	D	CL24BH080UP3	CL25BH080UP3
32	30	G	CL24BH320UP3	CL25BH320UP3
110	30	J	CL24BH111UP3	CL25BH111UP3
220	30	M	CL24BH221UP3	CL25BH221UP3
300	30	P	CL24BH301UP3	CL25BH301UP3
4.5	50	D	CL24BJ4R5TP3	CL25BJ4R5TP3
18	50	G	CL24BJ180TP3	CL25BJ180TP3
60	50	J	CL24BJ600TP3	CL25BJ600TP3
100	50	M	CL24BJ101TP3	CL25BJ101TP3
150	50	P	CL24BJ151TP3	CL25BJ151TP3
3	75	D	CL24BL030TP3	CL25BL030TP3
12	75	G	CL24BL120TP3	CL25BL120TP3
30	75	J	CL24BL300TP3	CL25BL300TP3
70	75	M	CL24BL700TP3	CL25BL700TP3
100	75	P	CL24BL101TP3	CL25BL101TP3
2	100	D	CL24BN020SP3	CL25BN020SP3
8	100	G	CL24BN080SP3	CL25BN080SP3
25	100	J	CL24BN250SP3	CL25BN250SP3
50	100	M	BL24BN500SP3	CL25BN500SP3
70	100	P	CL24BN700SP3	CL25BN700SP3
1	150	D	CL24BQ010SP3	CL25BQ010SP3
4	150	G	CL24BQ040SP3	CL25BQ040SP3
13	150	J	CL24BQ130SP3	CL25BQ130SP3
25	150	M	CL24BQ250SP3	CL25BQ250SP3
36	150	P	CL24BQ360SP3	CL25BQ360SP3

*Note: For vibration grade 1 or 2, change last digit of military designation to 1 or 2.

MIL-C-3965 FOIL TANTALUM CAPACITORS TYPES CL34 and CL35

- For use in military and industrial electronic equipment. Designed to operate over the temperature range of -55C to +85C up to 150 volts.
- Long operation and shelf life, excellent low temperature performance, and optimum electrical characteristics.
- For use in circuits where aluminum foil units are unsatisfactory. Low leakage current and good temperature coefficient.
- Type CL34 is a bare metal case unit. If an outer insulating sleeve is desired, order Type CL35.
- MIL version of Sprague Type 110D.
- For quantity prices see your Sprague Industrial Distributor.



DIMENSIONS

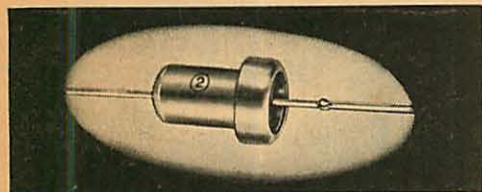
Code	D. x L.	Code	D. x L.
D	3 $\frac{1}{16}$ x 1 $\frac{1}{16}$	M	3 $\frac{1}{8}$ x 2 $\frac{1}{8}$
G	3 $\frac{1}{32}$ x 7 $\frac{1}{8}$	P	3 $\frac{1}{8}$ x 2 $\frac{1}{4}$
J	3 $\frac{1}{8}$ x 1 $\frac{1}{8}$		

μ F	WVDC	Size Code	Military Designation*	
10	3	D	CL34BA100MP3	CL35BA100MP3
50	3	G	CL34BA500MP3	CL35BA500MP3
8	6	D	CL34BB080MP3	CL35BB080MP3
30	6	G	CL34BB300MP3	CL35BB300MP3
100	6	J	CL34BB101MP3	CL35BB101MP3
200	6	M	CL34BB201MP3	CL35BB201MP3
300	6	P	CL34BB301MP3	CL35BB301MP3
6	10	D	CL34BD060MP3	CL35BD060MP3
25	10	G	CL34BD250MP3	CL35BD250MP3
80	10	J	CL34BD800MP3	CL35BD800MP3
160	10	M	CL34BD161MP3	CL35BD161MP3
220	10	P	CL34BD221MP3	CL35BD221MP3
4.5	15	D	CL34BE4R5MP3	CL35BE4R5MP3
10	15	G	CL34BE100MP3	CL35BE100MP3
18	15	G	CL34BE180MP3	CL35BE180MP3
55	15	J	CL34BE550MP3	CL35BE550MP3
110	15	M	CL34BE111MP3	CL35BE111MP3
160	15	P	CL34BE161MP3	CL35BE161MP3
2.5	30	D	CL34BH2R5MP3	CL35BH2R5MP3
30	30	J	CL34BH300MP3	CL35BH300MP3
60	30	M	CL34BH300MP3	CL35BH600MP3
85	30	P	CL34BH850MP3	CL35BH850MP3
1.5	50	D	CL34BJ1R5MP3	CL35BJ1R5MP3
6	50	G	CL34BJ060MP3	CL35BJ060MP3
20	50	J	CL34BJ200MP3	CL35BJ200MP3
40	50	M	CL34BJ400MP3	CL35BJ400MP3
55	50	P	CL34BJ550MP3	CL35BJ550MP3
1	75	D	CL34BL010MP3	CL35BL010MP3
4	75	G	CL34BL040MP3	CL35BL040MP3
14	75	J	CL34BL140MP3	CL35BL140MP3
28	75	M	CL34BL280MP3	CL35BL280MP3
40	75	P	CL34BL400MP3	CL35BL400MP3
0.8	100	D	CL34BN0R8MP3	CL35BN0R8MP3
3	100	G	CL34BN030MP3	CL35BN030MP3
10	100	J	CL34BN100MP3	CL35BN100MP3
20	100	M	CL34BN200MP3	CL35BN200MP3
30	100	P	CL34BN300MP3	CL35BN300MP3
0.5	150	D	CL34BQ0R5MP3	CL35BQ0R5MP3
2	150	G	CL34BQ020MP3	CL35BQ020MP3
4	150	G	CL34BQ040MP3	CL35BQ040MP3
7	150	J	CL34BQ070MP3	CL35BQ070MP3
8	150	J	CL34BQ080MP3	CL35BQ080MP3
12	150	M	CL34BQ120MP3	CL35BQ120MP3
14	150	M	CL34BQ140MP3	CL35BQ140MP3
20	150	P	CL34BQ200MP3	CL35BQ200MP3
.35	200	D	CL34BR35LP3	CL35BR35LP3
1.5	200	G	CL34BR1R5LP3	CL35BR1R5LP3
5	200	J	CL34BR050LP3	CL35BR050LP3
10	200	M	CL34BR100LP3	CL35BR100LP3
15	200	P	CL34BR150LP3	CL35BR150LP3
.30	250	D	CL34BSR30LP3	CL35BSR30LP3
1.2	250	G	CL34BS1R2LP3	CL35BS1R2LP3
4	250	J	CL34BS040LP3	CL35BS040LP3
8	250	M	CL34BS080LP3	CL35BS080LP3
12	250	P	CL34BS120LP3	CL35BS120LP3
1	300	G	CL34BX010LP3	CL35BX010LP3
3	300	J	CL34BX030LP3	CL35BX030LP3
7	300	M	CL34BX070LP3	CL35BX070LP3
10	300	P	CL34BX100LP3	CL35BX100LP3

*Note: For vibration grade 1 or 2, change last digit of military designation to 1 or 2.

SPRAGUE CAPACITORS

MIL-C-3965 'CUP-TYPE' TANTALEX® CAPACITORS TYPES CL44 and CL45



DIMENSIONS

Code	D. x L.	Code	D. x L.	Code	D. x L.
U	$\frac{7}{32} \times 1\frac{1}{32}$	V	$\frac{7}{32} \times 1\frac{1}{16}$	T	$\frac{3}{8} \times \frac{49}{64}$

- Type CL44 and CL45 Tantalex capacitors are manufactured to specification MIL-C-3965. Also available as Sprague Industrial Types 131D and 132D.
- Large capacitance values in small physical size.
- Intended for industrial, communication and ground military electronic equipment.
- Extremely low leakage currents and virtually no shelf aging.
- CL44 is a bare metal-case unit. CL45 has outer insulating sleeve.
- Capacitance tolerance: K = $\pm 10\%$; M = $+20, -20\%$; S = $+30, -15\%$; T = $+50, -15\%$.
- For quantity prices call your Sprague Industrial Distributor.

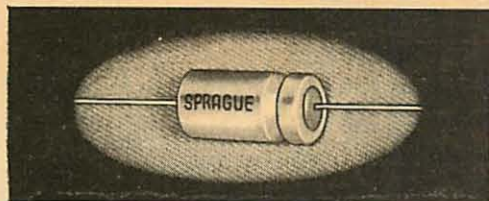
TYPES CL44, CL45 - 85C ALSO AVAILABLE IN CHARACTERISTIC C (125C)

μ F	Size Code	CL44 Type Number*	CL45 Type Number*	μ F	Size Code	CL44 Type Number*	CL45 Type Number*	μ F	Size Code	CL44 Type Number*	CL45 Type Number*
6 WVDC				25 WVDC				75 WVDC			
30	U	CL44BB300KP3	CL45BB300KP3	10	U	CL44BG100KP3	CL45BG100KP3	50	T	CL44BK500MP3	CL45BK500MP3
30	U	CL44BB300MP3	CL45BB300MP3	10	U	CL44BG100MP3	CL45BG100MP3	50	T	CL44BK500SP3	CL45BK500SP3
30	U	CL44BB300SP3	CL45BB300SP3	10	U	CL44BG100SP3	CL45BG100SP3	50	T	CL44BK500TP3	CL45BK500TP3
30	U	CL44BB300TP3	CL45BB300TP3	10	U	CL44BG100TP3	CL45BG100TP3				
140	V	CL44BB141KP3	CL45BB141KP3	30 WVDC							
140	V	CL44BB141MP3	CL45BB141MP3	8	U	CL44BH080KP3	CL45BH080KP3	3.5	U	CL44BL3R5KP3	CL45BL3R5KP3
140	V	CL44BB141SP3	CL45BB141SP3	8	U	CL44BH080MP3	CL45BH080MP3	3.5	U	CL44BL3R5MP3	CL45BL3R5MP3
140	V	CL44BB141TP3	CL45BB141TP3	8	U	CL44BH080SP3	CL45BH080SP3	3.5	U	CL44BL3R5SP3	CL45BL3R5SP3
330	T	CL44BB331KP3	CL45BB331KP3	8	U	CL44BH080TP3	CL45BH080TP3	15	V	CL44BL150KP3	CL45BL150KP3
330	T	CL44BB331MP3	CL45BB331MP3	40	V	CL44BH400KP3	CL45BH400KP3	15	V	CL44BL150MP3	CL45BL150MP3
330	T	CL44BB331SP3	CL45BB331SP3	40	V	CL44BH400MP3	CL45BH400MP3	15	V	CL44BL150SP3	CL45BL150SP3
330	T	CL44BB331TP3	CL45BB331TP3	40	V	CL44BH400SP3	CL45BH400SP3	15	V	CL44BL150TP3	CL45BL150TP3
330	T	CL44BB331TP3	CL45BB331TP3	40	V	CL44BH400TP3	CL45BH400TP3	40	T	CL44BL400KP3	CL45BL400KP3
8 WVDC				100	T	CL44BH101KP3	CL45BH101KP3	40	T	CL44BL400MP3	CL45BL400MP3
25	U	CL44BC250KP3	CL45BC250KP3	100	T	CL44BH101MP3	CL45BH101MP3	40	T	CL44BL400SP3	CL45BL400SP3
25	U	CL44BC250MP3	CL45BC250MP3	100	T	CL44BH101SP3	CL45BH101SP3	40	T	CL44BL400TP3	CL45BL400TP3
25	U	CL44BC250SP3	CL45BC250SP3	100	T	CL44BH101TP3	CL45BH101TP3	100 WVDC			
25	U	CL44BC250TP3	CL45BC250TP3	50 WVDC				2.5	U	CL44BN2R5KP3	CL45BN2R5KP3
10 WVDC				5	U	CL44BJ050KP3	CL45BJ050KP3	2.5	U	CL44BN2R5MP3	CL45BN2R5MP3
20	U	CL44BD200KP3	CL45BD200KP3	5	U	CL44BJ050MP3	CL45BJ050MP3	2.5	U	CL44BN2R5SP3	CL45BN2R5SP3
20	U	CL44BD200MP3	CL45BD200MP3	5	U	CL44BJ050SP3	CL45BJ050SP3	2.5	U	CL44BN2R5TP3	CL45BN2R5TP3
20	U	CL44BD200SP3	CL45BD200SP3	5	U	CL44BJ050TP3	CL45BJ050TP3	11	V	CL44BN110KP3	CL45BN110KP3
20	U	CL44BD200TP3	CL45BD200TP3	25	V	CL44BJ250KP3	CL45BJ250KP3	11	V	CL44BN110MP3	CL45BN110MP3
100	V	CL44BD101KP3	CL45BD101KP3	25	V	CL44BJ250MP3	CL45BJ250MP3	11	V	CL44BN110SP3	CL45BN110SP3
100	V	CL44BD101MP3	CL45BD101MP3	25	V	CL44BJ250SP3	CL45BJ250SP3	11	V	CL44BN110TP3	CL45BN110TP3
100	V	CL44BD101SP3	CL45BD101SP3	25	V	CL44BJ250TP3	CL45BJ250TP3	30	T	CL44BN300KP3	CL45BN300KP3
100	V	CL44BD101TP3	CL45BD101TP3	60	T	CL44BJ600KP3	CL45BJ600KP3	30	T	CL44BN300MP3	CL45BN300MP3
250	T	CL44BD251KP3	CL45BD251KP3	60	T	CL44BJ600MP3	CL45BJ600MP3	30	T	CL44BN300SP3	CL45BN300SP3
250	T	CL44BD251MP3	CL45BD251MP3	60	T	CL44BJ600SP3	CL45BJ600SP3	30	T	CL44BN300TP3	CL45BN300TP3
250	T	CL44BD251SP3	CL45BD251SP3	60	T	CL44BJ600TP3	CL45BJ600TP3	125 WVDC			
250	T	CL44BD251TP3	CL45BD251TP3	60 WVDC				1.7	U	CL44BP1R7KP3	CL45BP1R7KP3
15 WVDC				4	U	CL44BK040KP3	CL45BK040KP3	1.7	U	CL44BP1R7MP3	CL45BP1R7MP3
15	U	CL44BE150KP3	CL45BE150KP3	4	U	CL44BK040MP3	CL45BK040MP3	1.7	U	CL44BP1R7SP3	CL45BP1R7SP3
15	U	CL44BE150MP3	CL45BE150MP3	4	U	CL44BK040SP3	CL45BK040SP3	1.7	U	CL44BP1R7TP3	CL45BP1R7TP3
15	U	CL44BE150SP3	CL45BE150SP3	4	U	CL44BK040TP3	CL45BK040TP3	9	V	CL44BP090KP3	CL45BP090KP3
15	U	CL44BE150TP3	CL45BE150TP3	20	V	CL44BK200KP3	CL45BK200KP3	9	V	CL44BP090MP3	CL45BP090MP3
70	V	CL44BE700KP3	CL45BE700KP3	20	V	CL44BK200MP3	CL45BK200MP3	9	V	CL44BP090SP3	CL45BP090SP3
70	V	CL44BE700MP3	CL45BE700MP3	20	V	CL44BK200SP3	CL45BK200SP3	9	V	CL44BP090TP3	CL45BP090TP3
70	V	CL44BE700SP3	CL45BE700SP3	20	V	CL44BK200TP3	CL45BK200TP3	18	T	CL44BP180KP3	CL45BP180KP3
70	V	CL44BE700TP3	CL45BE700TP3	50	T	CL44BK500KP3	CL45BK500KP3	25	T	CL44BP250MP3	CL45BP250MP3
170	T	CL44BE171KP3	CL45BE171KP3					25	T	CL44BP250SP3	CL45BP250SP3
170	T	CL44BE171MP3	CL45BE171MP3					25	T	CL44BP250TP3	CL45BP250TP3
170	T	CL44BE171SP3	CL45BE171SP3								
170	T	CL44BE171TP3	CL45BE171TP3								

*For Vibration Grade 1, 2, or 3, add 1, 2, or 3 at end of Type Number.

SPRAGUE CAPACITORS

MIL-C-3965 TUBULAR SINTERED-ANODE TANTALEX® CAPACITORS—TYPES CL64 and CL65



DIMENSIONS

Code	D. x L.	Code	D. x L.	Code	D. x L.
T1	.188" x .453"	T2	.281" x .641"	T3	.375" x .766"

- Reliable Superior Quality Capacitors With No Voltage Derating For 125C Operation
- MIL Version of Sprague Type 130D
- Voltage Ratings From 6 WVDC Through 125 WVDC
- Type CL64 Is a Bare Metal-Case
- Unit. If An Outer Insulating Sleeve is Desired, Order Type CL65.
- Capacitance Tolerance: K = $\pm 10\%$; M = $\pm 20\%$; S = $+30, -15\%$; T = $+50, -15\%$.
- Call Your Sprague Industrial Distributor For Quantity Prices

TYPES CL64, CL65 - 85C ALSO AVAILABLE IN CHARACTERISTIC C (125C)

Size		CL64	CL65
μF	Code	Type Number*	Type Number*
6 WVDC			
30	T1	CL64BB300KP3	CL65BB300KP3
30	T1	CL64BB300MP3	CL65BB300MP3
30	T1	CL64BB300SP3	CL65BB300SP3
30	T1	CL64BB300TP3	CL65BB300TP3
68	T1	CL64BB680MP3	CL65BB680MP3
140	T2	CL64BB141KP3	CL65BB141KP3
140	T2	CL64BB141MP3	CL65BB141MP3
140	T2	CL64BB141SP3	CL65BB141SP3
140	T2	CL64BB141TP3	CL65BB141TP3
270	T2	CL64BB271MP3	CL65BB271MP3
330	T3	CL64BB331KP3	CL65BB331KP3
330	T3	CL64BB331MP3	CL65BB331MP3
330	T3	CL64BB331SP3	CL65BB331SP3
330	T3	CL64BB331TP3	CL65BB331TP3
560	T3	CL64BB561MP3	CL65BB561MP3
8 WVDC			
25	T1	CL64BC250KP3	CL65BC250KP3
25	T1	CL64BC250MP3	CL65BC250MP3
25	T1	CL64BC250SP3	CL65BC250SP3
25	T1	CL64BC250TP3	CL65BC250TP3
56	T1	CL64BC560MP3	CL65BC560MP3
220	T2	CL64BC221MP3	CL65BC221MP3
430	T3	CL64BC431MP3	CL65BC431MP3

Size		CL64	CL65
μF	Code	Type Number*	Type Number*
10 WVDC			
20	T1	CL64BD200KP3	CL65BD200KP3
20	T1	CL64BD200MP3	CL65BD200MP3
20	T1	CL64BD200SP3	CL65BD200SP3
20	T1	CL64BD200TP3	CL65BD200TP3
47	T1	CL64BD470MP3	CL65BD470MP3
100	T2	CL64BD101KP3	CL65BD101KP3
100	T2	CL64BD101MP3	CL65BD101MP3
100	T2	CL64BD101SP3	CL65BD101SP3
100	T2	CL64BD101TP3	CL65BD101TP3
180	T2	CL64BD181MP3	CL65BD181MP3
250	T3	CL64BD251KP3	CL65BD251KP3
250	T3	CL64BD251MP3	CL65BD251MP3
250	T3	CL64BD251SP3	CL65BD251SP3
250	T3	CL64BD251TP3	CL65BD251TP3
390	T3	CL64BD391MP3	CL65BD391MP3

Size		CL64	CL65
μF	Code	Type Number*	Type Number*
15 WVDC			
15	T1	CL64BE150KP3	CL65BE150KP3
15	T1	CL64BE150MP3	CL65BE150MP3
15	T1	CL64BE150SP3	CL65BE150SP3
15	T1	CL64BE150TP3	CL65BE150TP3
33	T1	CL64BE330MP3	CL65BE330MP3
70	T2	CL64BE700KP3	CL65BE700KP3
70	T2	CL64BE700MP3	CL65BE700MP3
70	T2	CL64BE700SP3	CL65BE700SP3
70	T2	CL64BE700TP3	CL65BE700TP3
120	T2	CL64BE121MP3	CL65BE121MP3
170	T3	CL64BE171KP3	CL65BE171KP3
170	T3	CL64BE171MP3	CL65BE171MP3

Size		CL64	CL65
μF	Code	Type Number*	Type Number*
25 WVDC			
170	T3	CL64BE171SP3	CL65BE171SP3
170	T3	CL64BE171TP3	CL65BE171TP3
270	T3	CL64BE271MP3	CL65BE271MP3
30 WVDC			
8	T1	CL64BH080KP3	CL65BH080KP3
8	T1	CL64BH080MP3	CL65BH080MP3
8	T1	CL64BH080SP3	CL65BH080SP3
8	T1	CL64BH080TP3	CL65BH080TP3
15	T1	CL64BH150MP3	CL65BH150MP3
40	T2	CL64BH400KP3	CL65BH400KP3
40	T2	CL64BH400MP3	CL65BH400MP3
40	T2	CL64BH400SP3	CL65BH400SP3
40	T2	CL64BH400TP3	CL65BH400TP3
68	T2	CL64BH680MP3	CL65BH680MP3
100	T3	CL64BH101KP3	CL65BH101KP3
100	T3	CL64BH101MP3	CL65BH101MP3
100	T3	CL64BH101SP3	CL65BH101SP3
100	T3	CL64BH101TP3	CL65BH101TP3
150	T3	CL64BH151MP3	CL65BH151MP3

Size		CL64	CL65
μF	Code	Type Number*	Type Number*
50 WVDC			
5	T1	CL64BJ050KP3	CL65BJ050KP3
5	T1	CL64BJ050MP3	CL65BJ050MP3
5	T1	CL64BJ050SP3	CL65BJ050SP3
5	T1	CL64BJ050TP3	CL65BJ050TP3
10	T1	CL64BJ100MP3	CL65BJ100MP3
25	T2	CL64BJ250KP3	CL65BJ250KP3
25	T2	CL64BJ250MP3	CL65BJ250MP3
25	T2	CL64BJ250SP3	CL65BJ250SP3
25	T2	CL64BJ250TP3	CL65BJ250TP3
47	T2	CL64BJ470MP3	CL65BJ470MP3
60	T3	CL64BJ600KP3	CL65BJ600KP3
60	T3	CL64BJ600MP3	CL65BJ600MP3
60	T3	CL64BJ600SP3	CL65BJ600SP3
60	T3	CL64BJ600TP3	CL65BJ600TP3
82	T3	CL64BJ820MP3	CL65BJ820MP3

Size		CL64	CL65
μF	Code	Type Number*	Type Number*
60 WVDC			
4	T1	CL64BK040KP3	CL65BK040KP3
4	T1	CL64BK040MP3	CL65BK040MP3
4	T1	CL64BK040SP3	CL65BK040SP3
4	T1	CL64BK040TP3	CL65BK040TP3
8.2	T1	CL64BK820MP3	CL65BK820MP3
20	T2	CL64BK200KP3	CL65BK200KP3
20	T2	CL64BK200MP3	CL65BK200MP3
20	T2	CL64BK200SP3	CL65BK200SP3

Size		CL64	CL65
μF	Code	Type Number*	Type Number*
75 WVDC			
3.5	T1	CL64BL350KP3	CL65BL350KP3
3.5	T1	CL64BL350MP3	CL65BL350MP3
3.5	T1	CL64BL350SP3	CL65BL350SP3
3.5	T1	CL64BL350TP3	CL65BL350TP3
6.8	T1	CL64BL680MP3	CL65BL680MP3
15	T2	CL64BL150KP3	CL65BL150KP3
15	T2	CL64BL150MP3	CL65BL150MP3
15	T2	CL64BL150SP3	CL65BL150SP3
15	T2	CL64BL150TP3	CL65BL150TP3
33	T2	CL64BL330MP3	CL65BL330MP3
40	T3	CL64BL400KP3	CL65BL400KP3
40	T3	CL64BL400MP3	CL65BL400MP3
40	T3	CL64BL400SP3	CL65BL400SP3
40	T3	CL64BL400TP3	CL65BL400TP3
56	T3	CL64BL560MP3	CL65BL560MP3

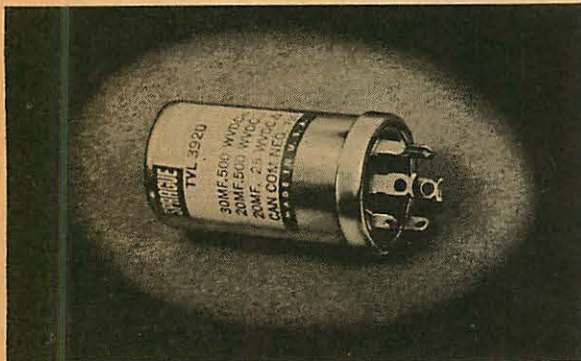
Size		CL64	CL65
μF	Code	Type Number*	Type Number*
100 WVDC			
2.5	T1	CL64BN250KP3	CL65BN250KP3
2.5	T1	CL64BN250MP3	CL65BN250MP3
2.5	T1	CL64BN250SP3	CL65BN250SP3
2.5	T1	CL64BN250TP3	CL65BN250TP3
4.7	T1	CL64BN470MP3	CL65BN470MP3
11	T2	CL64BN110KP3	CL65BN110KP3
11	T2	CL64BN110MP3	CL65BN110MP3
11	T2	CL64BN110SP3	CL65BN110SP3
11	T2	CL64BN110TP3	CL65BN110TP3
22	T2	CL64BN220MP3	CL65BN220MP3
30	T3	CL64BN300KP3	CL65BN300KP3
30	T3	CL64BN300MP3	CL65BN300MP3
30	T3	CL64BN300SP3	CL65BN300SP3
30	T3	CL64BN300TP3	CL65BN300TP3
43	T3	CL64BN430MP3	CL65BN430MP3

Size		CL64	CL65
μF	Code	Type Number*	Type Number*
125 WVDC			
1.7	T1	CL64BP170MP3	CL65BP170MP3
1.7	T1	CL64BP170KP3	CL65BP170KP3
3.6	T1	CL64BP360MP3	CL65BP360MP3
3.6	T1	CL64BP360KP3	CL65BP360KP3
9	T2	CL64BP090MP3	CL65BP090MP3
9	T2	CL64BP090KP3	CL65BP090KP3
14	T2	CL64BP140MP3	CL65BP140MP3
14	T2	CL64BP140KP3	CL65BP140KP3
18	T3	CL64BP180MP3	CL65BP180MP3
18	T3	CL64BP180KP3	CL65BP180KP3
25	T3	CL64BP250MP3	CL65BP250MP3
25	T3	CL64BP250KP3	CL65BP250KP3

*For Vibration Guide 1, or 2, change last digit in Type Number to 1, or 2.

SPRAGUE CAPACITORS

TVL TWIST-LOK® ELECTROLYTICS



- Hermetically Sealed in Aluminum Cans for Long Life and Dependable Performance in TV, Radio and Hi-Fi
- Designed for 85C (185F) Operation
- Stand Up Under Extremely High Temperatures Often Encountered in TV, Hi-Fi, and Auto Radio Cabinets
- Withstand High Surge Voltages
- Ideal for High Ripple Selenium Rectifier Circuits
- Can Be Safely Mounted "Above Ground" Using Phenolic Mounting Plate and Insulating Tube
- Easy to Mount — Unit Locks Firmly in Place with a Twist of the Tabs
- Furnished Complete with Both Phenolic and Metal Mounting Plates

The Twist-lok Capacitors listed here include only popular ratings for industrial applications. For the complete line of more than 1800 Twist-lok Capacitors, please refer to Distributor's Guide to Replacement Electrolytic Capacitors, C-1002.

μF	WVDC	Dia. x Length	Cat. No.	Net	μF	WVDC	Dia. x Length	Cat. No.	Net
SINGLE UNITS									
2000	6	1 3/8 x 2	TVL-1115	\$1.83	10	450	1 x 2	TVL-1705	\$.93
225	15	3/4 x 2	TVL-1160	1.05	15	450	1 x 2	TVL-1709	1.02
1000	15	1 x 2 1/2	TVL-1165	1.53	20	450	1 x 2	TVL-1714	1.08
2000	15	1 3/8 x 2	TVL-1168	2.07	30	450	1 x 2 1/2	TVL-1720	1.17
3000	15	1 3/8 x 2	TVL-1170	2.55	40	450	1 x 3	TVL-1725	1.23
4000	15	1 3/8 x 3 1/2	TVL-1173	2.25	50	450	1 x 3	TVL-1728	1.41
40	25	3/4 x 2	TVL-1210	.81	60	450	1 3/8 x 2	TVL-1730	1.56
500	25	1 x 1 1/2	TVL-1220	1.53	80	450	1 3/8 x 2 1/2	TVL-1735	1.83
1000	25	1 3/8 x 2	TVL-1230	2.13	100	450	1 3/8 x 3	TVL-1750	2.07
100	50	3/4 x 2	TVL-1317	.99	125	450	1 3/8 x 4	TVL-1760	2.31
150	50	3/4 x 2 1/2	TVL-1320	1.08	40	475	1 3/8 x 2	TVL-1820	1.50
250	50	1 x 2 1/2	TVL-1324	1.20	10	500	1 x 1 1/2	TVL-1940	1.02
500	50	1 3/8 x 2	TVL-1330	1.59	20	500	1 x 2 1/2	TVL-1943	1.11
1000	50	1 3/8 x 2 1/2	TVL-1338	2.25	30	500	1 x 2 1/2	TVL-1947	1.20
1500	50	1 3/8 x 2 1/2	TVL-1341	2.64	40	500	1 x 3	TVL-1950	1.50
30	150	1 x 2	TVL-1408	.93	80	500	1 3/8 x 3	TVL-1958	2.16
50	150	1 x 1 1/2	TVL-1415	.99	90	500	1 3/8 x 3	TVL-1960	2.10
80	150	1 x 2 1/2	TVL-1420	1.11	DUAL UNITS				
100	150	1 x 2 1/2	TVL-1423	1.20	20-20	150-150	1 x 2	TVL-2415	1.02
120	150	1 x 2	TVL-1425	1.29	30-20	150-150	1 x 1 1/2	TVL-2422	1.11
120	150	1 3/8 x 2 1/2	TVL-1426	1.29	40-20	150-150	1 x 2	TVL-2425	1.11
140	150	1 x 2 1/2	TVL-1428	1.29	40-30	150-150	1 x 2	TVL-2427	1.11
150	150	1 x 3	TVL-1429	1.29	40-40	150-150	1 x 1 1/2	TVL-2428	1.14
150	150	1 3/8 x 3	TVL-1430	1.29	50-30	150-150	1 x 1 1/2	TVL-2432	1.20
200	150	1 3/8 x 2	TVL-1431	1.47	50-50	150-150	1 x 1 1/2	TVL-2435	1.29
300	150	1 3/8 x 2	TVL-1434	1.68	60-60	150-150	1 x 3 1/2	TVL-2438	1.41
160	200	1 3/8 x 3	TVL-1473	1.89	70-30	150-150	1 x 2	TVL-2439	1.32
20	250	1 x 2	TVL-1509	.96	75-75	150-150	1 x 3	TVL-2440	1.56
40	250	1 x 2	TVL-1519	1.08	80-40	150-150	1 3/8 x 2 1/2	TVL-2442	1.38
100	250	1 x 3	TVL-1535	1.62	80-50	150-150	1 x 2 1/2	TVL-2442.1	1.44
150	250	1 3/8 x 2 1/2	TVL-1540	1.86	80-80	150-150	1 3/8 x 2	TVL-2442.4	1.59
200	250	1 3/8 x 3 1/2	TVL-1547	2.19	125-100	150-150	1 3/8 x 2 1/2	TVL-2443.3	2.01
80	300	1 x 2 1/2	TVL-1573	1.53	150-80	150-150	1 3/8 x 2 1/2	TVL-2443.5	1.83
100	300	1 x 4	TVL-1578	1.74	200-5	150-150	1 3/8 x 2	TVL-2444	1.62
125	300	1 3/8 x 3 1/2	TVL-1580	2.10	200-125	150-150	1 3/8 x 3 1/2	TVL-2445	2.25
150	300	1 3/8 x 3 1/2	TVL-1584	2.10	200-150	150-150	1 3/8 x 4	TVL-2446	2.25
250	300	1 3/8 x 4	TVL-1590	3.33	200-200	150-150	1 3/8 x 2 1/2	TVL-2447	2.40
30	350	1 x 2	TVL-1617	1.14	60-60	200-200	1 x 3	TVL-2461	2.04
40	350	1 x 2	TVL-1621	1.20	60-60	200-200	1 3/8 x 2	TVL-2462	2.04
50	350	1 x 2	TVL-1622	1.26	100-100	200-200	1 3/8 x 3	TVL-2464	2.10
60	350	1 x 3	TVL-1624	1.32	200-5	200-200	1 3/8 x 2	TVL-2470	1.83
80	350	1 3/8 x 2	TVL-1630	1.71	20-20	250-250	1 x 1 1/2	TVL-2515	1.14
125	350	1 3/8 x 3 1/2	TVL-1638	2.37	40-40	250-250	1 x 2	TVL-2520	1.50
150	350	1 3/8 x 2 1/2	TVL-1642	2.37	150-150	250-250	1 3/8 x 4	TVL-2535	3.09
4	450	1 x 2	TVL-1702	.84	200-200	250-250	1 3/8 x 4	TVL-2538	3.63

SPRAGUE CAPACITORS

PE OCTAL-BASE ELECTROLYTICS

- For Applications where Rapid Changing of Capacitors is Desired

- Will Fit Standard Octal-Base Tube Sockets

- Hermetically Sealed in Metal Cans for Long Life

- Will Stand Up Under High Temperatures, High Ripple Currents, High Surge Voltages

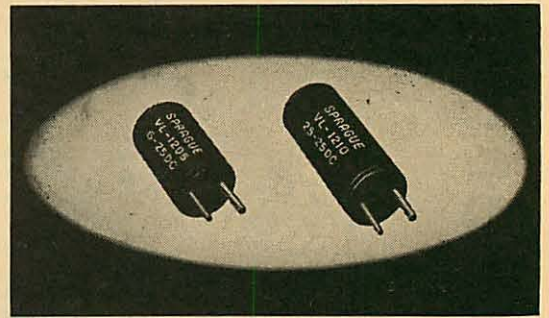


Terminal Code		
Sections	—	+
Single	1	5
Dual	1	3,5
Triple	1	3,5,7
Quadruple	Gnd Lug	1,3,5,7

μF	WVDC	Diam. x Lgh.	Cat. No.	Net
100	350	1 3/8 x 3	PE-1636	\$3.51
10	450	1 3/16 x 2 1/2	PE-1705	2.43
20	450	1 3/16 x 2 1/2	PE-1714	2.58
40	450	1 3/8 x 2 1/2	PE-1725	2.73
80	450	1 3/8 x 3 1/2	PE-1730	3.33
20-20	150-150	1 3/16 x 2 1/2	PE-2415	2.52
40-40	150-150	1 3/16 x 2 1/2	PE-2428	2.64
10-10	450-450	1 3/16 x 2 1/2	PE-2750	2.64
20-20	450-450	1 3/8 x 2 1/2	PE-2755	3.03
40-40	450-450	1 3/8 x 3 1/2	PE-2764	3.57
10-10-10	450-450-450	1 3/16 x 2 1/2	PE-3776	3.06
20-20-20	450-450-450	1 3/8 x 3	PE-3780	3.66
30-30-10-20	450-450-450-50	1 3/8 x 3 1/2	PE-4741	4.11

VL VERTI-LYTIC® ELECTROLYTICS

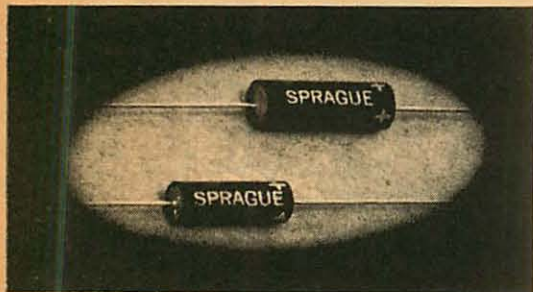
- For Replacement of Units of this Type Found on Printed Wiring Boards in Original Equipment
- Sections Housed in Sturdy, Pre-Molded Phenolic Cases
- Resin End Fill Will Not Contaminate Electrolyte — Protects Against Drying or Entrance of External Moisture
- Low Leakage Current and Long Shelf Life
- Polarity Easily Determined by Larger Diameter of Negative Lead
- For Complete Technical Data, See Latest Issue of Sprague Engineering Bulletin 3060



μF	D. x L.	Sprague Products Cat. No.	Sprague O.E.M. Part No.	Net
3 WVDC				
1	3/8 x 3/4	VL-1031	89D100	\$.87
2	3/8 x 3/4	VL-1032	89D101	.87
3	3/8 x 3/4	VL-1033	89D102	.87
4	3/8 x 3/4	VL-1034	89D103	.87
5	3/8 x 3/4	VL-1035	89D104	.87
6	3/8 x 3/4	VL-1036	89D105	.87
8	3/8 x 3/4	VL-1037	89D106	.87
10	3/8 x 3/4	VL-1038	89D107	.87
15	3/8 x 3/4	VL-1039	89D108	.87
20	3/8 x 3/4	VL-1040	89D109	.87
25	3/8 x 3/4	VL-1041	89D110	.87
35	3/8 x 3/4	VL-1043	89D111	.90
50	3/8 x 3/4	VL-1045	89D112	.93
75	3/8 x 3/4	VL-1048	89D113	1.02
100	3/8 x 3/4	VL-1051	89D114	1.05
150	3/8 x 3/4	VL-1055	89D115	1.05
200	3/8 x 3/4	VL-1059	89D116	1.08
250	7/16 x 7/8	VL-1063	89D117	1.17
290	7/16 x 7/8	VL-1067	89D118	1.20
6 WVDC				
1	3/8 x 3/4	VL-1080	89D119	.87
2	3/8 x 3/4	VL-1081	89D120	.87
3	3/8 x 3/4	VL-1082	89D121	.87
4	3/8 x 3/4	VL-1083	89D122	.87
5	3/8 x 3/4	VL-1084	89D123	.87
6	3/8 x 3/4	VL-1085	89D124	.87
8	3/8 x 3/4	VL-1086	89D125	.87
10	3/8 x 3/4	VL-1087	89D126	.87
15	3/8 x 3/4	VL-1088	89D127	.87
20	3/8 x 3/4	VL-1089	89D128	.87
25	3/8 x 3/4	VL-1090	89D129	.87
35	3/8 x 3/4	VL-1092	89D130	.90
50	3/8 x 3/4	VL-1094	89D131	.93
75	3/8 x 3/4	VL-1097	89D132	1.02
100	3/8 x 3/4	VL-1100	89D133	1.05
150	7/16 x 7/8	VL-1104	89D134	1.14
200	7/16 x 7/8	VL-1108	89D135	1.17
12 WVDC				
1	3/8 x 3/4	VL-1120	89D136	\$.87
2	3/8 x 3/4	VL-1121	89D137	.87
3	3/8 x 3/4	VL-1122	89D138	.87
4	3/8 x 3/4	VL-1123	89D139	.87
5	3/8 x 3/4	VL-1124	89D140	.90
6	3/8 x 3/4	VL-1125	89D141	.90
8	3/8 x 3/4	VL-1126	89D142	.90
10	3/8 x 3/4	VL-1127	89D143	.90
15	3/8 x 3/4	VL-1128	89D144	.93
20	3/8 x 3/4	VL-1129	89D145	.93
25	3/8 x 3/4	VL-1130	89D146	.93
35	3/8 x 3/4	VL-1132	89D147	.93
50	3/8 x 3/4	VL-1134	89D148	.99
75	3/8 x 3/4	VL-1137	89D149	1.05
100	7/16 x 7/8	VL-1140	89D150	1.14
140	7/16 x 7/8	VL-1144	89D151	1.17
15 WVDC				
1	3/8 x 3/4	VL-1160	89D152	.87
2	3/8 x 3/4	VL-1161	89D153	.87
3	3/8 x 3/4	VL-1162	89D154	.87
4	3/8 x 3/4	VL-1163	89D155	.87
5	3/8 x 3/4	VL-1164	89D156	.90
6	3/8 x 3/4	VL-1165	89D157	.90
8	3/8 x 3/4	VL-1166	89D158	.90
10	3/8 x 3/4	VL-1167	89D159	.93
15	3/8 x 3/4	VL-1168	89D160	.93
20	3/8 x 3/4	VL-1169	89D161	.93
25	3/8 x 3/4	VL-1170	89D162	.93
35	3/8 x 3/4	VL-1172	89D163	.93
50	3/8 x 3/4	VL-1174	89D164	.99
75	3/8 x 3/4	VL-1177	89D165	1.08
90	7/16 x 7/8	VL-1180	89D166	1.17
25 WVDC				
1	3/8 x 3/4	VL-1200	89D167	.90
2	3/8 x 3/4	VL-1201	89D168	.90
25 WVDC ctd.				
3	3/8 x 3/4	VL-1202	89D169	\$.93
4	3/8 x 3/4	VL-1203	89D170	.99
5	3/8 x 3/4	VL-1204	89D171	.99
6	3/8 x 3/4	VL-1205	89D172	.99
8	3/8 x 3/4	VL-1206	89D173	.99
10	3/8 x 3/4	VL-1207	89D174	.99
15	3/8 x 3/4	VL-1208	89D175	.99
20	3/8 x 3/4	VL-1209	89D176	.99
25	3/8 x 3/4	VL-1210	89D177	.99
35	3/8 x 3/4	VL-1212	89D178	1.05
50	3/8 x 7/8	VL-1215	89D179	1.05
70	7/16 x 7/8	VL-1218	89D180	1.17
50 WVDC				
1	3/8 x 3/4	VL-1300	89D181	.90
2	3/8 x 3/4	VL-1301	89D182	.90
3	3/8 x 3/4	VL-1302	89D183	.93
4	3/8 x 3/4	VL-1303	89D184	.99
5	3/8 x 3/4	VL-1304	89D185	.99
6	3/8 x 3/4	VL-1305	89D186	.99
8	3/8 x 3/4	VL-1306	89D187	.99
10	3/8 x 3/4	VL-1307	89D188	.99
15	3/8 x 3/4	VL-1308	89D189	.99
20	3/8 x 3/4	VL-1309	89D190	.99
25	7/16 x 7/8	VL-1310	89D191	.99
6-6 WVDC				
100-30	7/16 x 1 1/16	VL-2150	.....	1.26
10-10 WVDC				
50-50	1/2 x 7/8	VL-2250	.....	1.17
80-80	1/2 x 7/8	VL-2350	.....	1.32
8-8-8 WVDC				
100-100-60	1/2 x 1 1/16	VL-3320	.....	2.07
10-10-3 WVDC				
50-50-15	1/2 x 7/8	VL-3350	.....	1.80

SPRAGUE CAPACITORS

TL TRANSI-LYTIC[®] ELECTROLYTICS

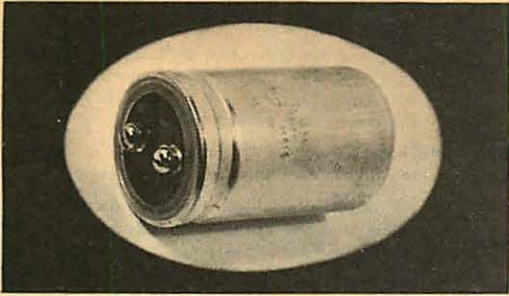


- Miniature Low-Cost Capacitors For Use in Transistorized Pocket and "Personal Portable" Radios
- Special Low-Leakage Current Construction to Meet The Requirements of Transistor Circuitry
- Sturdy Plastic Case With Thermo-setting Resin End-Seals
- Excellent Resistance to High Humidity Conditions
- Polarity Stamped on Each Unit

μF	D. x L.	Sprague Products Cat. No.	Sprague O.E.M. Part No.	Net.	μF	D. x L.	Sprague Products Cat. No.	Sprague O.E.M. Part No.	Net.	μF	D. x L.	Sprague Products Cat. No.	Sprague O.E.M. Part No.	Net.
3 WVDC					6 WVDC (cont.)					16 WVDC (cont.)				
1	3/16 x 3/64	TL-1050	31D1	\$.42	75	5/16 x 5/64	TL-1101.5	31D32	\$.45	35	5/16 x 5/64	TL-1159	31D62	\$.45
2	3/16 x 3/64	TL-1051	31D2	.42	100	3/8 x 1 5/64	TL-1102	31D33	.45	50	5/16 x 5/64	TL-1160	31D63	.45
3	3/16 x 3/64	TL-1052	31D3	.42	150	3/8 x 1 5/64	TL-1103	31D34	.60	75	3/8 x 1 5/64	TL-1161	31D64	.48
4	3/16 x 3/64	TL-1052.1	31D4	.42	175	3/8 x 1 5/64	TL-1103.5	31D35	.60	100	3/8 x 1 5/64	TL-1162	31D65	.48
5	3/16 x 3/64	TL-1052.2	31D5	.42	12 WVDC					20 WVDC				
6	3/16 x 3/64	TL-1052.3	31D6	.42	1	3/16 x 3/64	TL-1120	31D36	\$.42	1	3/16 x 3/64	TL-1170	31D66	\$.42
8	3/16 x 3/64	TL-1052.5	31D7	.42	2	3/16 x 3/64	TL-1121	31D37	.42	2	3/16 x 3/64	TL-1171	31D67	.42
10	3/16 x 3/64	TL-1053	31D8	.42	3	3/16 x 3/64	TL-1122	31D38	.42	3	3/16 x 3/64	TL-1172	31D68	.42
15	3/16 x 3/64	TL-1053.5	31D9	.42	4	3/16 x 3/64	TL-1123	31D39	.42	4	3/16 x 3/64	TL-1173	31D69	.42
20	7/32 x 4 5/64	TL-1054	31D10	.42	5	3/16 x 3/64	TL-1127	31D40	.42	5	3/16 x 3/64	TL-1174	31D70	.45
25	7/32 x 4 5/64	TL-1055	31D11	.42	6	3/16 x 3/64	TL-1127.1	31D41	.42	6	7/32 x 4 5/64	TL-1175	31D71	.45
35	1/4 x 5 5/64	TL-1056	31D12	.42	8	7/32 x 4 5/64	TL-1127.3	31D42	.42	8	7/32 x 4 5/64	TL-1176	31D72	.45
50	1/4 x 5 5/64	TL-1058	31D13	.42	10	7/32 x 4 5/64	TL-1128	31D43	.42	10	7/32 x 4 5/64	TL-1177	31D73	.45
75	1/4 x 5 5/64	TL-1059	31D14	.45	15	7/32 x 4 5/64	TL-1129	31D44	.42	15	1/4 x 5 5/64	TL-1178	31D74	.54
100	5/16 x 5 5/64	TL-1059.5	31D15	.45	20	1/4 x 5 5/64	TL-1130	31D45	.42	20	1/4 x 5 5/64	TL-1179	31D75	.54
150	3/8 x 1 5/64	TL-1061	31D16	.54	25	1/4 x 5 5/64	TL-1131	31D46	.42	25	1/4 x 5 5/64	TL-1180	31D76	.54
200	3/8 x 1 5/64	TL-1064	31D17	.54	35	1/4 x 5 5/64	TL-1132	31D47	.42	35	5/16 x 5 5/64	TL-1181	31D77	.54
250	3/8 x 1 5/64	TL-1065	31D18	.66	50	5/16 x 5 5/64	TL-1133	31D48	.42	50	5/16 x 5 5/64	TL-1182	31D78	.54
6 WVDC					75	3/8 x 1 5/64	TL-1134	31D49	.45	75	3/8 x 1 5/64	TL-1183	31D79	.54
1	3/16 x 3/64	TL-1080	31D19	\$.42	100	3/8 x 1 5/64	TL-1135	31D50	.45	25 WVDC				
2	3/16 x 3/64	TL-1081	31D20	.42	16 WVDC					1	3/16 x 3/64	TL-1200	31D80	\$.42
3	3/16 x 3/64	TL-1082	31D21	.42	1	3/16 x 3/64	TL-1148	31D51	\$.42	2	3/16 x 3/64	TL-1201	31D81	.42
4	3/16 x 3/64	TL-1083	31D22	.42	2	3/16 x 3/64	TL-1149	31D52	.42	3	3/16 x 3/64	TL-1201.1	31D82	.42
5	3/16 x 3/64	TL-1084	31D23	.42	3	3/16 x 3/64	TL-1150	31D53	.42	4	3/16 x 3/64	TL-1201.2	31D83	.42
6	3/16 x 3/64	TL-1085	31D24	.42	4	3/16 x 3/64	TL-1151	31D54	.42	5	7/32 x 4 5/64	TL-1202	31D84	.45
8	3/16 x 3/64	TL-1086	31D25	.42	5	3/16 x 3/64	TL-1152	31D55	.42	6	7/32 x 4 5/64	TL-1203	31D85	.45
10	3/16 x 3/64	TL-1087	31D26	.42	6	3/16 x 3/64	TL-1153	31D56	.42	8	7/32 x 4 5/64	TL-1203.5	31D86	.45
15	7/32 x 4 5/64	TL-1089	31D27	.42	8	7/32 x 4 5/64	TL-1154	31D57	.42	10	1/4 x 5 5/64	TL-1204	31D87	.45
20	7/32 x 4 5/64	TL-1090	31D28	.42	10	7/32 x 4 5/64	TL-1155	31D58	.45	15	1/4 x 5 5/64	TL-1205	31D88	.54
25	1/4 x 5 5/64	TL-1091	31D29	.42	15	1/4 x 5 5/64	TL-1156	31D59	.45	20	1/4 x 5 5/64	TL-1206	31D89	.54
35	1/4 x 5 5/64	TL-1093	31D30	.42	20	1/4 x 5 5/64	TL-1157	31D60	.45	25	3/8 x 1 5/64	TL-1207	31D90	.54
50	1/4 x 5 5/64	TL-1100	31D31	.42	25	1/4 x 5 5/64	TL-1157.1	31D61	.45	35	3/8 x 1 5/64	TL-1208	31D91	.54
										50	3/8 x 1 5/64	TL-1209	31D92	.54

SPRAGUE CAPACITORS

TYPE 36D POWERLYTIC[®] ALUMINUM ELECTROLYTICS



- For Maximum Capacitance in a Given Case Size.
- Especially Suitable for Transistorized Circuitry where High Capacitance is Required.
- Maximum Space Economy at Operating Temperatures Up To 65 C.
- Low ESR and Leakage Currents. • Extremely Long Shelf Life.
- Uses Most Reliable Seal Developed by Sprague for Aluminum Electrolytic Capacitors. Pressure-type Safety Vents Employing Silicone Rubber Are Used On All Cases.
- High Screw Insert Terminal, 9/32" high. • Plastic Outer Tube.
- Superior Electrical and Life Characteristics Are Insured By Careful Raw Material Inspection, High Quality Control Standards and

Close Manufacturing Supervision. For Complete Technical Data, Consult Sprague Engineering Bulletin 3431.

μF	Case Code	WVDC	Catalog No.	μF	Case Code	WVDC	Catalog No.
270,000	DF	3	36D274G003DF2A	450	AA	100	36D451F100AA2A
120,000	DC	6	36D124G006DC2A	1,300	AC	100	36D132F100AC2A
190,000	DF	6	36D194G006DF2A	3,000	BC	100	36D302F100BC2A
6,000	AA	10	36D602G010AA2A	5,300	CC	100	36D532F100CC2A
12,000	AB	10	36D123G010AB2A	7,800	DC	100	36D782F100DC2A
18,000	AC	10	36D183G010AC2A	300	AA	150	36D301F150AA2A
28,000	BB	10	36D283G010BB2A	900	AC	150	36D901F150AC2A
42,000	BC	10	36D423G010BC2A	1,400	BB	150	36D142F150BB2A
48,000	CB	10	36D483G010CB2A	2,100	BC	150	36D212F150BC2A
100,000	DC	10	36D104G010DC2A	3,600	CC	150	36D362F150CC2A
160,000	DF	10	36D164G010DF2A	5,300	DC	150	36D532F150DC2A
4,600	AA	15	36D462G015AA2A	7,800	DF	150	36D782F150DF2A
9,200	AB	15	36D922G015AB2A	250	AA	200	36D251F200AA2A
13,000	AC	15	36D133G015AC2A	430	AB	200	36D431F200AB2A
21,000	BB	15	36D213G015BB2A	640	AC	200	36D641F200AC2A
31,000	BC	15	36D313G015BC2A	1,400	BC	200	36D142F200BC2A
36,000	CB	15	36D363G015CB2A	1,600	CB	200	36D162F200CB2A
54,000	CC	15	36D543G015CC2A	3,700	DC	200	36D372F200DC2A
63,000	CD	15	36D633G015CD2A	5,500	DF	200	36D552F200DF2A
80,000	DC	15	36D803G015DC2A	530	AC	250	36D531F250AC2A
2,700	AA	25	36D272G025AA2A	1,200	BC	250	36D122F250BC2A
5,500	AB	25	36D552G025AB2A	3,000	DC	250	36D302F250DC2A
8,200	AC	25	36D822G025AC2A	4,500	DF	250	36D452F250DF2A
18,000	BC	25	36D183G025BC2A	240	AB	300	36D241F300AB2A
32,000	CC	25	36D323G025CC2A	820	BC	300	36D821F300BC2A
47,000	DC	25	36D473G025DC2A	2,100	DC	300	36D212F300DC2A
55,000	DD	25	36D553G025DD2A	95	AA	350	36D950F350AA2A
71,000	DF	25	36D713G025DF2A	190	AB	350	36D191F350AB2A
36,000	DC	30	36D363G030DC2A	420	BB	350	36D421F350BB2A
42,000	DD	30	36D423G030DD2A	650	BC	350	36D651F350BC2A
5,500	AC	40	36D552G040AC2A	1,100	CC	350	36D112F350CC2A
8,400	BB	40	36D842G040BB2A	1,600	DC	350	36D162F350DC2A
12,000	BC	40	36D123G040BC2A	2,500	DF	350	36D252F350DF2A
21,000	CC	40	36D213G040CC2A	420	BC	400	36D421F400BC2A
25,000	CD	40	36D253G040CD2A	50	AA	450	36D500F450AA2A
1,300	AA	50	36D132G050AA2A	140	AC	450	36D141F450AC2A
2,600	AB	50	36D262G050AB2A	220	BB	450	36D221F450BB2A
3,900	AC	50	36D392G050AC2A	330	BC	450	36D331F450BC2A
6,000	BB	50	36D602G050BB2A	860	DC	450	36D861F450DC2A
9,000	BC	50	36D902G050BC2A				
15,000	CC	50	36D153G050CC2A				
22,000	DC	50	36D223G050DC2A				
2,500	AC	75	36D252F075AC2A				
3,900	BB	75	36D392F075BB2A				
5,900	BC	75	36D592F075BC2A				
11,000	CD	75	36D113F075CD2A				
14,000	DC	75	36D143F075DC2A				
22,000	DF	75	36D223F075DF2A				

CALL YOUR SPRAGUE INDUSTRIAL DISTRIBUTOR FOR CURRENT QUANTITY PRICES

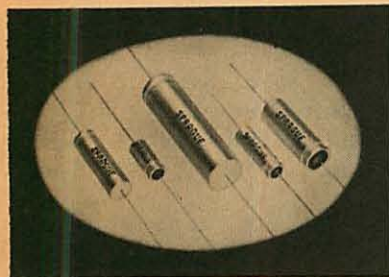
CALL YOUR SPRAGUE DISTRIBUTOR FOR QUANTITY PRICES

CASE CODE	BARE CAN D x L	CASE CODE	BARE CAN D x L	VERTICAL MOUNTING Cat. No.	CLAMPS Dia.
AA	1 3/8 x 2 1/8	CB	2 1/2 x 3 1/8	CMC-22	1 3/8
AB	1 3/8 x 3 1/8	CC	2 1/2 x 4 1/8	CMC-32	2
AC	1 3/8 x 4 1/8	CD	2 1/2 x 4 3/8	CMC-40	2 1/2
BB	2 x 3 1/8	DC	3 x 4 1/8	CMC-48	3
BC	2 x 4 1/8	DD	3 x 4 3/8		
		DF	3 x 5 3/8		

Add 1/32" to diameter and 1/16" to length for plastic outer tube.

SPRAGUE CAPACITORS

TYPE 39D TUBULAR POWERLYTIC® ELECTROLYTIC CAPACITORS

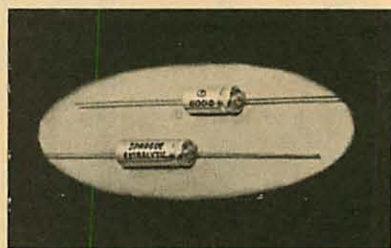


- Designed for Such Applications as Transistorized Apparatus, Which Require the Greatest Possible Capacitance in Small Case Size.
- Type 39D Capacitors Supplement the Original Type 36D Powerlytic by Offering Lower Capacitance Values in Small Case Size.
- Welds at all Critical Anode and Cathode Terminals Eliminates Riveted or Pressure Connections to Assure Freedom from Open Circuits Even During Operation in the Microvolt or Millivolt Signal Range.
- End-seals are Made of an Improved Molded Phenolic Which is an Important Feature in Establishing the Unusually Long Life of Type 39D Capacitors.
- Furnished with an Outer Insulation of Flexible Plastic.
- Designed for Operation at Temperatures up to 85 C. As with all Powerlytic Capacitors, Type 39D Capacitors Have Very Low Effective Series Resistance and Leakage Current.
- These Capacitors are Provided with a Pressure-sensitive Safety Vent.
- For Additional Technical Data, Consult the Latest Issue of Sprague Electric Company Engineering Bulletin 3415.
- Call Your Sprague Industrial Distributor For Current Quantity Prices

μF	D. x L.	Catalog Number	μF	D. x L.	Catalog Number	μF	D. x L.	Catalog Number	μF	D. x L.	Catalog Number
3 WVDC, 4 VDC SURGE			15 WVDC, 18 VDC SURGE			50 WVDC, 65 VDC SURGE			350 WVDC, 400 VDC SURGE		
1,300	1/2 x 2 1/8	39D138G003EL4	600	1/2 x 2 1/8	39D607G015EL4	50	1/2 x 1 1/8	39D506G050EE4	20	3/8 x 2 1/8	39D206F350FL4
2,100	7/8 x 1 1/8	39D218G003HE4	1,200	3/8 x 2 1/8	39D128G015FL4	100	1/2 x 1 1/8	39D107G050EJ4	30	3/8 x 2 3/8	39D306F350FP4
3,000	1 x 1 1/8	39D308G003JE4	2,500	3/4 x 2 3/8	39D258G015GP4	150	1/2 x 2 1/8	39D157G050EL4	40	3/4 x 2 1/8	39D406F350GL4
5,700	3/4 x 2 3/8	39D578G003GP4	4,000	1 x 2 1/8	39D408G015JL4	250	7/8 x 1 1/8	39D257G050HE4	50	3/4 x 2 3/8	39D506F350GP4
10,000	7/8 x 3 1/8	39D109G003HS4	8,000	1 x 3 3/8	39D808G015JT4	500	3/4 x 2 1/8	39D507G050GL4	100	7/8 x 3 1/8	39D107F350HS4
18,000	1 x 3 3/8	39D189G003JT4				1,100	7/8 x 2 3/8	39D118G050HP4	160	1 x 3 3/8	39D167F350JT4
6 WVDC, 8 VDC SURGE			25 WVDC, 30 VDC SURGE			150 WVDC, 175 VDC SURGE			450 WVDC, 525 VDC SURGE		
600	1/2 x 1 3/8	39D607G006EJ4	200	1/2 x 1 3/8	39D207G025EJ4	25	1/2 x 1 3/8	39D256F150EJ4	5	1/2 x 2 1/8	39D505F450EL4
1,000	3/4 x 1 1/8	39D108G006GE4	500	7/8 x 1 1/8	39D507G025HE4	50	3/8 x 1 3/8	39D506F150FJ4	10	3/8 x 2 1/8	39D106F450FL4
2,000	3/4 x 1 3/8	39D208G006GJ4	1,000	3/4 x 2 1/8	39D108G025GL4	100	3/8 x 2 3/8	39D107F150FP4	20	3/4 x 2 1/8	39D206F450GL4
4,000	3/4 x 2 3/8	39D408G006GP4	2,200	7/8 x 2 3/8	39D228G025HP4	250	7/8 x 2 3/8	39D257F150HP4	50	1 x 2 3/8	39D506F450JP4
6,000	3/4 x 2 3/8	39D608G006HP4	4,000	1 x 3 3/8	39D408G025JT4	500	1 x 3 3/8	39D537F150JT4	75	1 x 3 3/8	39D756F450JT4
10,000	1 x 3 3/8	39D109G006J4				250 WVDC, 300 VDC SURGE			CALL YOUR SPRAGUE INDUSTRIAL DISTRIBUTOR FOR CURRENT QUANTITY PRICES		
10 WVDC, 12 VDC SURGE			30 WVDC, 40 VDC SURGE			250 WVDC, 300 VDC SURGE					
500	1/2 x 1 3/8	39D507G010EJ4	75	1/2 x 1 1/8	39D756G030EE4	20	1/2 x 2 1/8	39D206F250EL4			
1,000	3/4 x 1 3/8	39D108G010FJ4	150	1/2 x 1 3/8	39D157G030EJ4	50	1 x 1 1/8	39D506F250EJ4			
1,600	3/4 x 2 1/8	39D168G010FL4	250	1/2 x 1 3/8	39D257G030EL4	100	7/8 x 2 1/8	39D107F250HL4			
2,500	3/4 x 2 1/8	39D258G010GL4	500	3/4 x 2 1/8	39D507G030FL4	200	1 x 2 3/8	39D207F250JP4			
5,000	7/8 x 2 3/8	39D508G010HP4	1,100	3/4 x 2 3/8	39D118G030GP4	300	1 x 3 3/8	39D307F250JT4			
10,000	1 x 3 3/8	39D109G010JT4	2,100	7/8 x 3 3/8	39D218G030HS4						
			3,000	1 x 3 3/8	39D308G030JS4						

TYPE 600D EXTRALYTIC® ALUMINUM ELECTROLYTIC CAPACITORS

- Extended Temperature Range From -55C to +125C
- Dual Rating Makes Possible Operation At Either 85C or 125C
- Voltage Ratings Up to 150 Volts D-C
- Improved Oxide Systems, Etching Techniques, and End Seals; a New Electrolyte Makes The Type 600D Equivalent to Or Better Than Comparable Foil Tantalum Capacitors.
- Lower Cost and 1/3 The Weight of Comparable Foil Tantalums

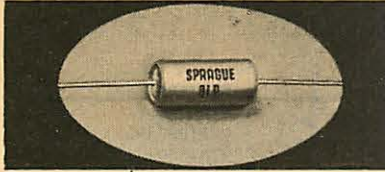


μF	Case Code	Catalog Number*	μF	Case Code	Catalog Number*	μF	Case Code	Catalog Number*	μF	Case Code	Catalog Number*
7 WVDC @ 85C, 5 WVDC @ 125C			25 WVDC @ 85C, 20 WVDC @ 125C			60 WVDC @ 85C, 50 WVDC @ 125C			150 WVDC @ 85C, 100 WVDC @ 125C		
140	DC	600D147G007DC4	50	DC	600D506G025DC4	18	DC	600D186G060DC4	6	DC	600D605F150DC4
210	DD	600D217G007DD4	75	DD	600D756G025DD4	25	DD	600D256G060DD4	9	DD	600D905F150DD4
280	DE	600D287G007DE4	100	DE	600D107G025DE4	40	DE	600D406G060DE4	12	DE	600D126F150DE4
420	DG	600D427G007DG4	150	DG	600D157G025DG4	60	DG	600D606G060DG4	18	DG	600D186F150DG4
560	DJ	600D567G007DJ4	210	DJ	600D217G025DJ4	80	DJ	600D806G060DJ4	25	DJ	600D256F150DJ4
850	DL	600D857G007DL4	310	DL	600D317G025DL4	120	DL	600D127G060DL4	37	DL	600D376F150DL4
15 WVDC @ 85C, 10 WVDC @ 125C			40 WVDC @ 85C, 30 WVDC @ 125C			70 WVDC @ 85C, 50 WVDC @ 125C			200 WVDC @ 85C, 150 WVDC @ 125C		
95	DC	600D956G015DC4	30	DC	600D306G040DC4	15	DC	600D156G070DC4	4	DC	600D405F200DC4
140	DD	600D147G015DD4	50	DD	600D506G040DD4	20	DD	600D206G070DD4	6	DD	600D605F200DD4
190	DE	600D197G015DE4	70	DE	600D706G040DE4	30	DE	600D306G070DE4	8	DE	600D805F200DE4
290	DG	600D297G015DG4	100	DG	600D107G040DG4	50	DG	600D506G070DG4	13	DG	600D136F200DG4
390	DJ	600D397G015DJ4	140	DJ	600D147G040DJ4	65	DJ	600D656G070DJ4	17	DJ	600D176F200DJ4
580	DL	600D587G015DL4	210	DL	600D217G040DL4	100	DL	600D107G070DL4	26	DL	600D266F200DL4
20 WVDC @ 85C, 15 WVDC @ 125C			50 WVDC @ 85C, 40 WVDC @ 125C			100 WVDC @ 85C, 75 WVDC @ 125C			TABLE OF DIMENSIONS Case With Outer Insulation Code Diam. Length (±0.031) (Max.) DC .390 .875 DD .390 1.000 DE .390 1.187 DG .390 1.437 DJ .390 1.687 DL .390 2.249		
70	DC	600D706G020DC4	20	DC	600D206G050DC4	8	DC	600D186G060DC4			
100	DD	600D107G020DD4	35	DD	600D356G050DD4	13	DD	600D136G100DD4			
140	DE	600D147G020DE4	50	DE	600D506G050DE4	17	DE	600D176G100DE4			
220	DG	600D227G020DG4	75	DG	600D756G050DG4	25	DG	600D256G100DG4			
290	DJ	600D297G020DJ4	100	DJ	600D107G050DJ4	35	DJ	600D806G060DJ4			
440	DL	600D447G020DL4	150	DL	600D157G050DL4	50	DL	600D506G100DL4			

*Catalog numbers listed are for capacitors with Outer Insulation. For units with bare can substitute "0" for "4" at the end of the catalog number, and subtract 1/64" from diameter.

SPRAGUE CAPACITORS

VITAMIN Q[®] SUBMINIATURE PAPER CAPACITORS



These capacitors are the most widely used of all paper capacitors in commercial and military electronic equipment. Her-

metically sealed in metal cases, they are electrically and mechanically designed to meet stringent operating requirements.

Impregnated with Vitamin Q, a substantially linear, controlled molecular weight, hydrocarbon polymer, which is exclusive with Sprague, these dependable capacitors are available for operation in two temperature ranges: -55°C to $+85^{\circ}\text{C}$ and -55°C to $+125^{\circ}\text{C}$. Because of their Vitamin Q impregnation, these subminiature capacitors have

a higher insulation resistance and longer life than comparable units with ordinary oils.

Sprague Subminiature paper capacitors exceed the performance requirements of military specification MIL-C-25A. A limited number of the ratings shown here are listed in the military specification and should be ordered by their MIL type designation where equipment specifications so require. (See page after next.)

Listed below are the most popular insulated section (ungrounded case) capacitors. For technical data on these and other types, ratings, and tolerances, as well as on wax-impregnated units for absolute minimum size, refer to the latest issue of Engineering Bulletin 2110.

Call your Sprague Industrial Distributor for Current Quantity Prices.

CHOICE OF INSERTED TAB OR EXTENDED FOIL CONSTRUCTION

In the past, inserted tab capacitors have not been recommended for low-voltage applications (e.g., below 10 volts) but recent improvements in design now make it possible to recommend them for operation at all voltages from 1 to rated, in nearly all applications.

From the application standpoint, the principal difference between the two construction types is that, at resonance, losses

are likely to be lower in the extended foil type. This is because the resistive component of impedance is likely to be higher at resonance in the inserted tab type of construction. Unless unusual circuit requirements make the losses at resonance a critical factor, the inserted tab construction is recommended, primarily because of the smaller size of the capacitor roll.

TYPE 91P, INSERTED TAB CONSTRUCTION, 85°C OPERATION

μF	WVDC	Size D. x L.	Capacitance Tolerance $\pm 20\%$				Capacitance Tolerance $\pm 10\%$			
			Style 2 (bare metal case)		Style 4 (w/plastic sleeve)*		Style 2 (bare metal case)		Style 4 (w/plastic sleeve)*	
			Cat. No.	Call Your Sprague Industrial Distributor for Current Quantity Prices	Cat. No.	Call Your Sprague Industrial Distributor for Current Quantity Prices	Cat. No.	Call Your Sprague Industrial Distributor for Current Quantity Prices	Cat. No.	Call Your Sprague Industrial Distributor for Current Quantity Prices
.001	100	.175 x 3/4	91P10201S2		91P10201S4		91P10291S2		91P10291S4	
	200	.235 x 3/4	91P10202S2		91P10202S4		91P10292S2		91P10292S4	
	300	.235 x 3/4	91P10203S2		91P10203S4		91P10293S2		91P10293S4	
	400	.235 x 3/4	91P10204S2		91P10204S4		91P10294S2		91P10294S4	
	600	.235 x 3/4	91P10206S2		91P10206S4		91P10296S2		91P10296S4	
.0015	100	.175 x 3/4	91P15201S2		91P15201S4		91P15291S2		91P15291S4	
	200	.235 x 3/4	91P15202S2		91P15202S4		91P15292S2		91P15292S4	
	300	.235 x 3/4	91P15203S2		91P15203S4		91P15293S2		91P15293S4	
	400	.235 x 3/4	91P15204S2		91P15204S4		91P15294S2		91P15294S4	
	600	.235 x 3/4	91P15206S2	91P15206S4	91P15296S2	91P15296S4				
.0022	100	.175 x 3/4	91P22201S2	91P22201S4	91P22291S2	91P22291S4				
	200	.235 x 3/4	91P22202S2	91P22202S4	91P22292S2	91P22292S4				
	300	.235 x 3/4	91P22203S2	91P22203S4	91P22293S2	91P22293S4				
	400	.235 x 3/4	91P22204S2	91P22204S4	91P22294S2	91P22294S4				
	600	.235 x 3/4	91P22206S2	91P22206S4	91P22296S2	91P22296S4				
.0033	100	.175 x 3/4	91P33201S2	91P33201S4	91P33291S2	91P33291S4				
	200	.235 x 3/4	91P33202S2	91P33202S4	91P33292S2	91P33292S4				
	300	.235 x 3/4	91P33203S2	91P33203S4	91P33293S2	91P33293S4				
	400	.235 x 3/4	91P33204S2	91P33204S4	91P33294S2	91P33294S4				
	600	.235 x 3/4	91P33206S2	91P33206S4	91P33296S2	91P33296S4				
.0047	100	.175 x 3/4	91P47201S2	91P47201S4	91P47291S2	91P47291S4				
	200	.235 x 3/4	91P47202S2	91P47202S4	91P47292S2	91P47292S4				
	300	.235 x 3/4	91P47203S2	91P47203S4	91P47293S2	91P47293S4				
	400	.235 x 3/4	91P47204S2	91P47204S4	91P47294S2	91P47294S4				
	600	.235 x 3/4	91P47206S2	91P47206S4	91P47296S2	91P47296S4				
.0068	100	.175 x 3/4	91P68201S2	91P68201S4	91P68291S2	91P68291S4				
	200	.235 x 3/4	91P68202S2	91P68202S4	91P68292S2	91P68292S4				
	300	.235 x 3/4	91P68203S2	91P68203S4	91P68293S2	91P68293S4				
	400	.235 x 3/4	91P68204S2	91P68204S4	91P68294S2	91P68294S4				
	600	.235 x 3/4	91P68206S2	91P68206S4	91P68296S2	91P68296S4				

*For Style 4 units add .0625" to diameter and 1/16" to length.

SPRAGUE CAPACITORS

TYPE 91P, continued

μF	WVDC	Size D. x L.	Capacitance Tolerance ±20%				Capacitance Tolerance ±10%			
			Style 2 (bare metal case)		Style 4 (w/plastic sleeve)*		Style 2 (bare metal case)		Style 4 (w/plastic sleeve)*	
			Cat. No.		Cat. No.		Cat. No.		Cat. No.	
.01	100	.175 x 3/4	91P10301S2	CALL YOUR SPRAGUE INDUSTRIAL DISTRIBUTOR FOR CURRENT QUANTITY PRICES	91P10301S4	CALL YOUR SPRAGUE INDUSTRIAL DISTRIBUTOR FOR CURRENT QUANTITY PRICES	91P10391S2	CALL YOUR SPRAGUE INDUSTRIAL DISTRIBUTOR FOR CURRENT QUANTITY PRICES	91P10391S4	
	200	.235 x 3/4	91P10302S2		91P10302S4		91P10392S2		91P10392S4	
	300	.235 x 3/4	91P10303S2		91P10303S4		91P10393S2		91P10393S4	
	400	.235 x 3/4	91P10304S2		91P10304S4		91P10394S2		91P10394S4	
	600	.312 x 7/8	91P10306S2		91P10306S4		91P10396S2		91P10396S4	
.015	100	.175 x 3/4	91P15301S2		91P15301S4		91P15391S2		91P15391S4	
	200	.235 x 3/4	91P15302S2		91P15302S4		91P15392S2		91P15392S4	
	300	.235 x 3/4	91P15303S2		91P15303S4		91P15393S2		91P15393S4	
	400	.312 x 7/8	91P15304S2		91P15304S4		91P15394S2		91P15394S4	
	600	.312 x 7/8	91P15306S2		91P15306S4		91P15396S2		91P15396S4	
.022	100	.195 x 3/4	91P22301S2		91P22301S4		91P22391S2		91P22391S4	
	200	.235 x 3/4	91P22302S2		91P22302S4		91P22392S2		91P22392S4	
	300	.312 x 7/8	91P22303S2		91P22303S4		91P22393S2		91P22393S4	
	400	.312 x 7/8	91P22304S2		91P22304S4		91P22394S2		91P22394S4	
	600	.312 x 7/8	91P22306S2		91P22306S4		91P22396S2		91P22396S4	
.033	100	.235 x 3/4	91P33301S2	91P33301S4	91P33391S2	91P33391S4				
	200	.312 x 7/8	91P33302S2	91P33302S4	91P33392S2	91P33392S4				
	300	.312 x 7/8	91P33303S2	91P33303S4	91P33393S2	91P33393S4				
	400	.312 x 7/8	91P33304S2	91P33304S4	91P33394S2	91P33394S4				
	600	.400 x 7/8	91P33306S2	91P33306S4	91P33396S2	91P33396S4				
.047	100	.312 x 7/8	91P47301S2	91P47301S4	91P47391S2	91P47391S4				
	200	.312 x 7/8	91P47302S2	91P47302S4	91P47392S2	91P47392S4				
	300	.312 x 7/8	91P47303S2	91P47303S4	91P47393S2	91P47393S4				
	400	.400 x 7/8	91P47304S2	91P47304S4	91P47394S2	91P47394S4				
	600	.400 x 1 1/8	91P47306S2	91P47306S4	91P47396S2	91P47396S4				
.068	100	.312 x 7/8	91P68301S2	91P68301S4	91P68391S2	91P68391S4				
	200	.312 x 7/8	91P68302S2	91P68302S4	91P68392S2	91P68392S4				
	300	.400 x 7/8	91P68303S2	91P68303S4	91P68393S2	91P68393S4				
	400	.400 x 1 1/8	91P68304S2	91P68304S4	91P68394S2	91P68394S4				
	600	.400 x 1 1/8	91P68306S2	91P68306S4	91P68396S2	91P68396S4				
.1	100	.312 x 7/8	91P10401S2	91P10401S4	91P10491S2	91P10491S4				
	200	.400 x 7/8	91P10402S2	91P10402S4	91P10492S2	91P10492S4				
	300	.400 x 1 1/8	91P10403S2	91P10403S4	91P10493S2	91P10493S4				
	400	.400 x 1 1/8	91P10404S2	91P10404S4	91P10494S2	91P10494S4				
	600	.562 x 1 1/8	91P10406S2	91P10406S4	91P10496S2	91P10496S4				
.15	100	.400 x 7/8	91P15401S2	91P15401S4	91P15491S2	91P15491S4				
	200	.400 x 1 1/8	91P15402S2	91P15402S4	91P15492S2	91P15492S4				
	300	.400 x 1 1/8	91P15403S2	91P15403S4	91P15493S2	91P15493S4				
	400	.562 x 1 1/8	91P15404S2	91P15404S4	91P15494S2	91P15494S4				
	600	.562 x 1 3/8	91P15406S2	91P15406S4	91P15496S2	91P15496S4				
.22	100	.400 x 1 1/8	91P22401S2	91P22401S4	91P22491S2	91P22491S4				
	200	.400 x 1 3/8	91P22402S2	91P22402S4	91P22492S2	91P22492S4				
	300	.562 x 1 1/8	91P22403S2	91P22403S4	91P22493S2	91P22493S4				
	400	.562 x 1 3/8	91P22404S2	91P22404S4	91P22494S2	91P22494S4				
	600	.562 x 1 7/8	91P22406S2	91P22406S4	91P22496S2	91P22496S4				
.33	100	.400 x 1 3/8	91P33401S2	91P33401S4	91P33491S2	91P33491S4				
	200	.562 x 1 1/8	91P33402S2	91P33402S4	91P33492S2	91P33492S4				
	300	.562 x 1 3/8	91P33403S2	91P33403S4	91P33493S2	91P33493S4				
	400	.562 x 1 7/8	91P33404S2	91P33404S4	91P33494S2	91P33494S4				
	600	.670 x 1 7/8	91P33406S2	91P33406S4	91P33496S2	91P33496S4				
.47	100	.562 x 1 1/8	91P47401S2	91P47401S4	91P47491S2	91P47491S4				
	200	.562 x 1 3/8	91P47402S2	91P47402S4	91P47492S2	91P47492S4				
	300	.562 x 1 7/8	91P47403S2	91P47403S4	91P47493S2	91P47493S4				
	400	.670 x 1 3/8	91P47404S2	91P47404S4	91P47494S2	91P47494S4				
	600	.750 x 2 1/8	91P47406S2	91P47406S4	91P47496S2	91P47496S4				
.68	100	.562 x 1 3/8	91P68401S2	91P68401S4	91P68491S2	91P68491S4				
	200	.562 x 1 7/8	91P68402S2	91P68402S4	91P68492S2	91P68492S4				
	300	.670 x 1 7/8	91P68403S2	91P68403S4	91P68493S2	91P68493S4				
	400	.750 x 2 1/8	91P68404S2	91P68404S4	91P68494S2	91P68494S4				
	600	1.000 x 1 13/16	91P68406S2	91P68406S4	91P68496S2	91P68496S4				
1.0	100	.562 x 1 7/8	91P10501S2	91P10501S4	91P10591S2	91P10591S4				
	200	.670 x 1 7/8	91P10502S2	91P10502S4	91P10592S2	91P10592S4				
	300	.750 x 2 1/8	91P10503S2	91P10503S4	91P10593S2	91P10593S4				
	400	1.000 x 1 13/16	91P10504S2	91P10504S4	91P10594S2	91P10594S4				

*For Style 4 units add .0625" to diameter and 1/16" to length.

SPRAGUE CAPACITORS

TYPE 191P, EXTENDED FOIL CONSTRUCTION, 85°C OPERATION

μF	WVDC	Size D. x L.	Capacitance Tolerance ±20%				Capacitance Tolerance ±10%			
			Style 2 (bare metal case)		Style 4 (w/plastic sleeve*)		Style 2 (bare metal case)		Style 4 (w/plastic sleeve*)	
			Cat. No.		Cat. No.		Cat. No.		Cat. No.	
.001	100	.175 x 3/4	191P10201S2	CALL YOUR SPRAGUE INDUSTRIAL DISTRIBUTOR FOR CURRENT QUANTITY PRICES	191P10201S4	CALL YOUR SPRAGUE INDUSTRIAL DISTRIBUTOR FOR CURRENT QUANTITY PRICES	191P10291S2	CALL YOUR SPRAGUE INDUSTRIAL DISTRIBUTOR FOR CURRENT QUANTITY PRICES	191P10291S4	
	200	.235 x 3/4	191P10202S2		191P10202S4		191P10292S2		191P10292S4	
	300	.235 x 3/4	191P10203S2		191P10203S4		191P10293S2		191P10293S4	
	400	.235 x 3/4	191P10204S2		191P10204S4		191P10294S2		191P10294S4	
	600	.235 x 3/4	191P10206S2		191P10206S4		191P10296S2		191P10296S4	
.0015	100	.175 x 3/4	191P15201S2		191P15201S4		191P15291S2		191P15291S4	
	200	.235 x 3/4	191P15202S2		191P15202S4		191P15292S2		191P15292S4	
	300	.235 x 3/4	191P15203S2		191P15203S4		191P15293S2		191P15293S4	
	400	.235 x 3/4	191P15204S2		191P15204S4		191P15294S2		191P15294S4	
	600	.235 x 3/4	191P15206S2		191P15206S4		191P15296S2		191P15296S4	
.0022	100	.175 x 3/4	191P22201S2	191P22201S4	191P22291S2	191P22291S4				
	200	.235 x 3/4	191P22202S2	191P22202S4	191P22292S2	191P22292S4				
	300	.235 x 3/4	191P22203S2	191P22203S4	191P22293S2	191P22293S4				
	400	.235 x 3/4	191P22204S2	191P22204S4	191P22294S2	191P22294S4				
	600	.235 x 3/4	191P22206S2	191P22206S4	191P22296S2	191P22296S4				
.0033	100	.175 x 3/4	191P33201S2	191P33201S4	191P33291S2	191P33291S4				
	200	.235 x 3/4	191P33202S2	191P33202S4	191P33292S2	191P33292S4				
	300	.235 x 3/4	191P33203S2	191P33203S4	191P33293S2	191P33293S4				
	400	.235 x 3/4	191P33204S2	191P33204S4	191P33294S2	191P33294S4				
	600	.235 x 3/4	191P33206S2	191P33206S4	191P33296S2	191P33296S4				
.0047	100	.175 x 3/4	191P47201S2	191P47201S4	191P47291S2	191P47291S4				
	200	.235 x 3/4	191P47202S2	191P47202S4	191P47292S2	191P47292S4				
	300	.235 x 3/4	191P47203S2	191P47203S4	191P47293S2	191P47293S4				
	400	.235 x 3/4	191P47204S2	191P47204S4	191P47294S2	191P47294S4				
	600	.235 x 3/4	191P47206S2	191P47206S4	191P47296S2	191P47296S4				
.0068	100	.175 x 3/4	191P68201S2	191P68201S4	191P68291S2	191P68291S4				
	200	.235 x 3/4	191P68202S2	191P68202S4	191P68292S2	191P68292S4				
	300	.235 x 3/4	191P68203S2	191P68203S4	191P68293S2	191P68293S4				
	400	.235 x 3/4	191P68204S2	191P68204S4	191P68294S2	191P68294S4				
	600	.235 x 3/4	191P68206S2	191P68206S4	191P68296S2	191P68296S4				
.01	100	.175 x 3/4	191P10301S2	191P10301S4	191P10391S2	191P10391S4				
	200	.235 x 3/4	191P10302S2	191P10302S4	191P10392S2	191P10392S4				
	300	.235 x 3/4	191P10303S2	191P10303S4	191P10393S2	191P10393S4				
	400	.235 x 3/4	191P10304S2	191P10304S4	191P10394S2	191P10394S4				
	600	.312 x 7/8	191P10306S2	191P10306S4	191P10396S2	191P10396S4				
.015	100	.175 x 3/4	191P15301S2	191P15301S4	191P15391S2	191P15391S4				
	200	.235 x 3/4	191P15302S2	191P15302S4	191P15392S2	191P15392S4				
	300	.235 x 3/4	191P15303S2	191P15303S4	191P15393S2	191P15393S4				
	400	.312 x 7/8	191P15304S2	191P15304S4	191P15394S2	191P15394S4				
	600	.312 x 7/8	191P15306S2	191P15306S4	191P15396S2	191P15396S4				
.022	100	.195 x 3/4	191P22301S2	191P22301S4	191P22391S2	191P22391S4				
	200	.235 x 3/4	191P22302S2	191P22302S4	191P22392S2	191P22392S4				
	300	.312 x 7/8	191P22303S2	191P22303S4	191P22393S2	191P22393S4				
	400	.312 x 7/8	191P22304S2	191P22304S4	191P22394S2	191P22394S4				
	600	.312 x 7/8	191P22306S2	191P22306S4	191P22396S2	191P22396S4				

*For Style 4 units add .0625" to diameter and 1/16" to length

SPRAGUE CAPACITORS

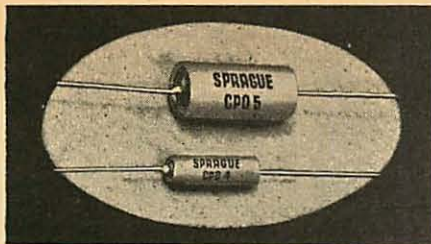
TYPE 191P, continued

μF	WVDC	Size D. x L.	Capacitance Tolerance ±20%				Capacitance Tolerance ±10%			
			Style 2 (bare metal case)		Style 4 (w/plastic sleeve*)		Style 2 (bare metal case)		Style 4 (w/plastic sleeve*)	
			Cat. No.	CALL YOUR SPRAGUE INDUSTRIAL DISTRIBUTOR FOR CURRENT QUANTITY PRICES	Cat. No.	CALL YOUR SPRAGUE INDUSTRIAL DISTRIBUTOR FOR CURRENT QUANTITY PRICES	Cat. No.	CALL YOUR SPRAGUE INDUSTRIAL DISTRIBUTOR FOR CURRENT QUANTITY PRICES	Cat. No.	CALL YOUR SPRAGUE INDUSTRIAL DISTRIBUTOR FOR CURRENT QUANTITY PRICES
.033	100	.235 x 3/8	191P33301S2				191P33301S4				191P33391S2		191P33391S4
	200	.312 x 7/8	191P33302S2		191P33302S4		191P33392S2		191P33392S4	
	300	.312 x 7/8	191P33303S2		191P33303S4		191P33393S2		191P33393S4	
	400	.312 x 7/8	191P33304S2		191P33304S4		191P33394S2		191P33394S4	
	600	.400 x 7/8	191P33306S2		191P33306S4		191P33396S2		191P33396S4	
.047	100	.312 x 7/8	191P47301S2		191P47301S4		191P47391S2		191P47391S4	
	200	.312 x 7/8	191P47302S2		191P47302S4		191P47392S2		191P47392S4	
	300	.312 x 7/8	191P47303S2		191P47303S4		191P47393S2		191P47393S4	
	400	.400 x 7/8	191P47304S2		191P47304S4		191P47394S2		191P47394S4	
	600	.400 x 1 1/8	191P47306S2		191P47306S4		191P47396S2		191P47396S4	
.068	100	.312 x 7/8	191P68301S2		191P68301S4		191P68391S2		191P68391S4	
	200	.312 x 7/8	191P68302S2		191P68302S4		191P68392S2		191P68392S4	
	300	.400 x 7/8	191P68303S2		191P68303S4		191P68393S2		191P68393S4	
	400	.400 x 1 1/8	191P68304S2		191P68304S4		191P68394S2		191P68394S4	
	600	.400 x 1 3/8	191P68306S2		191P68306S4		191P68396S2		191P68396S4	
.1	100	.312 x 7/8	191P10401S2		191P10401S4		191P10491S2		191P10491S4	
	200	.400 x 7/8	191P10402S2		191P10402S4		191P10492S2		191P10492S4	
	300	.400 x 1 1/8	191P10403S2		191P10403S4		191P10493S2		191P10493S4	
	400	.400 x 1 3/8	191P10404S2		191P10404S4		191P10494S2		191P10494S4	
	600	.562 x 1 1/8	191P10406S2		191P10406S4		191P10496S2		191P10496S4	
.15	100	.400 x 7/8	191P15401S2		191P15401S4		191P15491S2		191P15491S4	
	200	.400 x 1 1/8	191P15402S2		191P15402S4		191P15492S2		191P15492S4	
	300	.400 x 1 3/8	191P15403S2		191P15403S4		191P15493S2		191P15493S4	
	400	.562 x 1 1/8	191P15404S2		191P15404S4		191P15494S2		191P15494S4	
	600	.562 x 1 3/8	191P15406S2		191P15406S4		191P15496S2		191P15496S4	
.22	100	.400 x 1 1/8	191P22401S2		191P22401S4		191P22491S2		191P22491S4	
	200	.400 x 1 3/8	191P22402S2		191P22402S4		191P22492S2		191P22492S4	
	300	.562 x 1 1/8	191P22403S2		191P22403S4		191P22493S2		191P22493S4	
	400	.562 x 1 3/8	191P22404S2		191P22404S4		191P22494S2		191P22494S4	
	600	.562 x 1 3/8	191P22406S2		191P22406S4		191P22496S2		191P22496S4	
.33	100	.400 x 1 3/8	191P33401S2		191P33401S4		191P33491S2		191P33491S4	
	200	.562 x 1 1/8	191P33402S2		191P33402S4		191P33492S2		191P33492S4	
	300	.562 x 1 3/8	191P33403S2		191P33403S4		191P33493S2		191P33493S4	
	400	.562 x 1 3/8	191P33404S2		191P33404S4		191P33494S2		191P33494S4	
	600	.670 x 1 3/8	191P33406S2		191P33406S4		191P33496S2		191P33496S4	
.47	100	.562 x 1 1/8	191P47401S2		191P47401S4		191P47491S2		191P47491S4	
	200	.562 x 1 3/8	191P47402S2		191P47402S4		191P47492S2		191P47492S4	
	300	.562 x 1 3/8	191P47403S2		191P47403S4		191P47493S2		191P47493S4	
	400	.670 x 1 3/8	191P47404S2		191P47404S4		191P47494S2		191P47494S4	
	600	.750 x 2 1/8	191P47406S2		191P47406S4		191P47496S2		191P47496S4	
.68	100	.562 x 1 3/8	191P68401S2		191P68401S4		191P68491S2		191P68491S4	
	200	.562 x 1 3/8	191P68402S2		191P68402S4		191P68492S2		191P68492S4	
	300	.670 x 1 3/8	191P68403S2		191P68403S4		191P68493S2		191P68493S4	
1.0	100	.562 x 1 3/8	191P10501S2		191P10501S4		191P10591S2		191P10591S4	
	200	.670 x 1 3/8	191P10502S2		191P10502S4		191P10592S2		191P10592S4	

*For Style 4 units add .0625" to diameter and 1/16" to length

SPRAGUE CAPACITORS

TYPE CP04 CAPACITORS TO MIL-C-25A



- Impregnation with Vitamin Q assures capacitors exceed MIL-C-25A performance requirements.
- Inserted tab construction for applications where minimum size is necessary.
- Positive hermetic closure of the metal cases assured by glass-to-metal solder-seal terminals.
- Type CP04 has plain metal case.
- Available in Characteristic E (−55°C to +85°C) or Characteristic K (−55°C to +125°C).
- Only popular insulated section (ungrounded case) capacitors are listed. For information on grounded case units, consult your Sprague Industrial Distributor.
- Call your Sprague Industrial Distributor for Quantity Prices.

μF	WVDC	Size D. x L.	Characteristic E −55°C to +85°C				Characteristic K −55°C to +125°C			
			±20% Tol.		±10% Tol.		±20% Tol.		±10% Tol.	
			Cat. No.		Cat. No.		Cat. No.		Cat. No.	
.001	600	.235 x 3/4	CP04A1EF102M	CP04A1EF102K	CP04A1KF102M	CP04A1KF102K	CALL YOUR SPRAGUE INDUSTRIAL DISTRIBUTOR FOR QUANTITY PRICES	CALL YOUR SPRAGUE INDUSTRIAL DISTRIBUTOR FOR QUANTITY PRICES		
.0015	600	.235 x 3/4	CP04A1EF152M	CP04A1EF152K	CP04A1KF152M	CP04A1KF152K				
.0022	600	.235 x 3/4	CP04A1EF222M	CP04A1EF222K	CP04A1KF222M	CP04A1KF222K				
.0033	600	.235 x 3/4	CP04A1EF332M	CP04A1EF332K	CP04A1KF332M	CP04A1KF332K				
.0047	600	.235 x 3/4	CP04A1EF472M	CP04A1EF472K	CP04A1KF472M	CP04A1KF472K				
.0068	600	.235 x 3/4	CP04A1EF682M	CP04A1EF682K	CP04A1KF682M	CP04A1KF682K				
.01	400	.235 x 3/4	CP04A1EE103M	CP04A1EE103K	CP04A1KE103M	CP04A1KE103K				
	600	.312 x 7/8	CP04A1EF103M	CP04A1EF103K	CP04A1KF103M	CP04A1KF103K				
.015	200	.235 x 3/4	CP04A1EE153M	CP04A1EE153K	CP04A1KE153M	CP04A1KE153K				
	600	.312 x 7/8	CP04A1EF153M	CP04A1EF153K	CP04A1KF153M	CP04A1KF153K				
.022	200	.235 x 3/4	CP04A1EC223M	CP04A1EC223K	CP04A1KC223M	CP04A1KC223K				
	600	.312 x 7/8	CP04A1EF223M	CP04A1EF223K	CP04A1KF223M	CP04A1KF223K				
.033	100	.235 x 3/4	CP04A1EB333M	CP04A1EB333K	CP04A1KB333M	CP04A1KB333K				
	400	.312 x 7/8	CP04A1EE333M	CP04A1EE333K	CP04A1KE333M	CP04A1KE333K				
	600	.400 x 7/8	CP04A1EF333M	CP04A1EF333K	CP04A1KF333M	CP04A1KF333K				
.047	200	.312 x 7/8	CP04A1EC473M	CP04A1EC473K	CP04A1KC473M	CP04A1KC473K				
	400	.400 x 7/8	CP04A1EE473M	CP04A1EE473K	CP04A1KE473M	CP04A1KE473K				
	600	.400 x 1 1/8	CP04A1EF473M	CP04A1EF473K	CP04A1KF473M	CP04A1KF473K				
.068	200	.312 x 7/8	CP04A1EC683M	CP04A1EC683K	CP04A1KC683M	CP04A1KC683K				
	400	.400 x 1 1/8	CP04A1EE683M	CP04A1EE683K	CP04A1KE683M	CP04A1KE683K				
	600	.400 x 1 3/8	CP04A1EF683M	CP04A1EF683K	CP04A1KF683M	CP04A1KF683K				
.1	100	.312 x 7/8	CP04A1EB104M	CP04A1EB104K	CP04A1KB104M	CP04A1KB104K				
	200	.400 x 7/8	CP04A1EC104M	CP04A1EC104K	CP04A1KC104M	CP04A1KC104K				
	400	.400 x 1 1/8	CP04A1EE104M	CP04A1EE104K	CP04A1KE104M	CP04A1KE104K				
	600	.562 x 1 1/8	CP04A1EF104M	CP04A1EF104K	CP04A1KF104M	CP04A1KF104K				
.15	100	.400 x 7/8	CP04A1EB154M	CP04A1EB154K	CP04A1KB154M	CP04A1KB154K				
	200	.400 x 1 1/8	CP04A1EC154M	CP04A1EC154K	CP04A1KC154M	CP04A1KC154K				
	400	.562 x 1 1/8	CP04A1EE154M	CP04A1EE154K	CP04A1KE154M	CP04A1KE154K				
	600	.562 x 1 3/8	CP04A1EF154M	CP04A1EF154K	CP04A1KF154M	CP04A1KF154K				
.22	100	.400 x 1 1/8	CP04A1EB224M	CP04A1EB224K	CP04A1KB224M	CP04A1KB224K				
	200	.400 x 1 3/8	CP04A1EC224M	CP04A1EC224K	CP04A1KC224M	CP04A1KC224K				
	400	.562 x 1 3/8	CP04A1EE224M	CP04A1EE224K	CP04A1KE224M	CP04A1KE224K				
	600	.562 x 1 7/8	CP04A1EF224M	CP04A1EF224K	CP04A1KF224M	CP04A1KF224K				
.33	100	.400 x 1 3/8	CP04A1EB334M	CP04A1EB334K	CP04A1KB334M	CP04A1KB334K				
	200	.562 x 1 7/8	CP04A1EC334M	CP04A1EC334K	CP04A1KC334M	CP04A1KC334K				
	400	.562 x 1 7/8	CP04A1EE334M	CP04A1EE334K	CP04A1KE334M	CP04A1KE334K				
	600	.670 x 1 7/8	CP04A1EF334M	CP04A1EF334K	CP04A1KF334M	CP04A1KF334K				
.47	100	.562 x 1 7/8	CP04A1EB474M	CP04A1EB474K	CP04A1KB474M	CP04A1KB474K				
	200	.562 x 1 7/8	CP04A1EC474M	CP04A1EC474K	CP04A1KC474M	CP04A1KC474K				
	400	.670 x 1 7/8	CP04A1EE474M	CP04A1EE474K	CP04A1KE474M	CP04A1KE474K				
	600	.750 x 2 1/8	CP04A1EF474M	CP04A1EF474K	CP04A1KF474M	CP04A1KF474K				
.68	100	.562 x 1 7/8	CP04A1EB684M	CP04A1EB684K	CP04A1KB684M	CP04A1KB684K				
	200	.562 x 1 7/8	CP04A1EC684M	CP04A1EC684K	CP04A1KC684M	CP04A1KC684K				
	400	.750 x 2 1/8	CP04A1EE684M	CP04A1EE684K	CP04A1KE684M	CP04A1KE684K				
	600	1.0 x 1 7/8	CP04A1EF684M	CP04A1EF684K	CP04A1KF684M	CP04A1KF684K				
1.0	100	.562 x 1 7/8	CP04A1EB105M	CP04A1EB105K	CP04A1KB105M	CP04A1KB105K				
	200	.670 x 1 7/8	CP04A1EC105M	CP04A1EC105K	CP04A1KC105M	CP04A1KC105K				
	400	1.0 x 1 7/8	CP04A1EE105M	CP04A1EE105K	CP04A1KE105M	CP04A1KE105K				

SPRAGUE CAPACITORS

TYPE CP04 CAPACITORS TO MIL-C-25C

(±10% CAPACITANCE TOLERANCE, CHARACTERISTIC K)

μF	WVDC	D. x L.	Cat. No.*
.001	600	.235 x 3/4	CP04A1KF102K3
.0012	600	.235 x 3/4	CP04A1KF122K3
.0015	600	.235 x 3/4	CP04A1KF152K3
.0018	600	.235 x 3/4	CP04A1KF182K3
.0022	600	.235 x 3/4	CP04A1KF222K3
.0027	600	.235 x 3/4	CP04A1KF272K3
.0033	600	.235 x 3/4	CP04A1KF332K3
.0039	600	.235 x 3/4	CP04A1KF392K3
.0047	600	.235 x 3/4	CP04A1KF472K3
.0056	600	.235 x 3/4	CP04A1KF562K3
.0068	600	.235 x 3/4	CP04A1KF682K3
.0082	400	.235 x 3/4	CP04A1KE822K3
	600	.312 x 7/8	CP04A1KF822K3
.01	400	.235 x 3/4	CP04A1KE103K3
	600	.312 x 7/8	CP04A1KF103K3
.012	200	.235 x 3/4	CP04A1KC123K3
	600	.312 x 7/8	CP04A1KF123K3
.015	200	.235 x 3/4	CP04A1KC153K3
	600	.312 x 7/8	CP04A1KF153K3
	1000	.400 x 1 1/8	CP04A1KG153K3
.018	200	.235 x 3/4	CP04A1KC183K3
	600	.312 x 7/8	CP04A1KF183K3
	1000	.400 x 1 1/8	CP04A1KG183K3
.022	200	.235 x 3/4	CP04A1KC223K3
	600	.312 x 7/8	CP04A1KF223K3
	1000	.400 x 1 1/8	CP04A1KG223K3
.027	100	.235 x 3/4	CP04A1KB273K3
	400	.312 x 7/8	CP04A1KE273K3
	600	.400 x 7/8	CP04A1KF273K3
	1000	.400 x 1 1/8	CP04A1KG273K3
.033	100	.235 x 3/4	CP04A1KB333K3
	400	.312 x 7/8	CP04A1KE333K3
	600	.400 x 7/8	CP04A1KF333K3
	1000	.400 x 1 1/8	CP04A1KG333K3
.039	200	.312 x 7/8	CP04A1KC393K3
	400	.400 x 7/8	CP04A1KE393K3
	600	.400 x 1 1/8	CP04A1KF393K3
	1000	.562 x 1 1/8	CP04A1KG393K3
.047	200	.312 x 7/8	CP04A1KC473K3
	400	.400 x 7/8	CP04A1KE473K3
	600	.400 x 1 1/8	CP04A1KF473K3
	1000	.562 x 1 1/8	CP04A1KG473K3
.056	200	.312 x 7/8	CP04A1KC563K3
	400	.400 x 1 1/8	CP04A1KE563K3
	600	.400 x 1 1/8	CP04A1KF563K3
	1000	.562 x 1 1/8	CP04A1KG563K3
.068	200	.312 x 7/8	CP04A1KC683K3
	400	.400 x 1 1/8	CP04A1KE683K3
	600	.400 x 1 1/8	CP04A1KF683K3
	1000	.562 x 1 1/8	CP04A1KG683K3
.082	100	.312 x 7/8	CP04A1KB823K3
	200	.400 x 7/8	CP04A1KE823K3
	400	.400 x 1 1/8	CP04A1KF823K3
	600	.562 x 1 1/8	CP04A1KF823K3
	1000	.562 x 1 1/8	CP04A1KG823K3

CALL YOUR SPRAGUE INDUSTRIAL DISTRIBUTOR FOR CURRENT QUANTITY PRICES

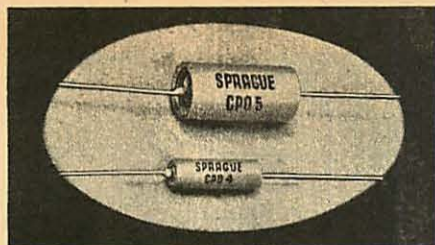
μF	WVDC	D. x L.	Cat. No.*
.1	100	.312 x 7/8	CP04A1KB104K3
	200	.400 x 7/8	CP04A1KC104K3
	400	.400 x 1 1/8	CP04A1KE104K3
	600	.562 x 1 1/8	CP04A1KF104K3
	1000	.562 x 1 1/8	CP04A1KG104K3
.12	100	.400 x 7/8	CP04A1KB124K3
	200	.400 x 1 1/8	CP04A1KC124K3
	400	.562 x 1 1/8	CP04A1KE124K3
	600	.562 x 1 1/8	CP04A1KF124K3
	1000	.670 x 1 1/8	CP04A1KG124K3
.15	100	.400 x 7/8	CP04A1KB154K3
	200	.400 x 1 1/8	CP04A1KC154K3
	400	.562 x 1 1/8	CP04A1KE154K3
	600	.562 x 1 1/8	CP04A1KF154K3
	1000	.670 x 1 1/8	CP04A1KG154K3
.18	100	.400 x 1 1/8	CP04A1KB184K3
	200	.400 x 1 1/8	CP04A1KC184K3
	400	.562 x 1 1/8	CP04A1KE184K3
	600	.562 x 1 1/8	CP04A1KF184K3
	1000	.750 x 2 1/8	CP04A1KG184K3
.22	100	.400 x 1 1/8	CP04A1KB224K3
	200	.400 x 1 1/8	CP04A1KC224K3
	400	.562 x 1 1/8	CP04A1KE224K3
	600	.562 x 1 1/8	CP04A1KF224K3
	1000	.750 x 2 1/8	CP04A1KG224K3
.27	100	.400 x 1 1/8	CP04A1KB274K3
	200	.562 x 1 1/8	CP04A1KC274K3
	400	.562 x 1 1/8	CP04A1KE274K3
	600	.670 x 1 1/8	CP04A1KF274K3
	1000	.750 x 2 1/8	CP04A1KG274K3
.33	100	.400 x 1 1/8	CP04A1KB334K3
	200	.562 x 1 1/8	CP04A1KC334K3
	400	.562 x 1 1/8	CP04A1KE334K3
	600	.670 x 1 1/8	CP04A1KF334K3
	1000	.750 x 2 1/8	CP04A1KG334K3
.39	100	.562 x 1 1/8	CP04A1KB394K3
	200	.562 x 1 1/8	CP04A1KC394K3
	400	.670 x 1 1/8	CP05A1KE394K3
	600	.750 x 2 1/8	CP04A1KF394K3
	1000	1.000 x 2 1/8	CP04A1KG394K3
.47	100	.562 x 1 1/8	CP04A1KB474K3
	200	.562 x 1 1/8	CP04A1KC474K3
	400	.670 x 1 1/8	CP04A1KE474K3
	600	.750 x 2 1/8	CP04A1KF474K3
	1000	1.000 x 2 1/8	CP04A1KG474K3
.56	100	.562 x 1 1/8	CP04A1K564K3
	200	.562 x 1 1/8	CP04A1KC564K3
	400	.750 x 2 1/8	CP04A1KE564K3
	600	1.000 x 1 7/8	CP04A1KF564K3
.68	100	.562 x 1 1/8	CP04A1KB684K3
	200	.562 x 1 1/8	CP04A1KC684K3
	400	.750 x 2 1/8	CP04A1KE684K3
	600	1.000 x 1 7/8	CP04A1KF684K3
.82	100	.562 x 1 1/8	CP04A1KB824K3
	200	.670 x 1 1/8	CP04A1KC824K3
	400	1.000 x 1 7/8	CP04A1KE824K3
1.0	100	.562 x 1 1/8	CP05A1KB105K3
	200	.670 x 1 1/8	CP05A1KC105K3
	400	1.000 x 1 7/8	CP04A1KE105K3

CALL YOUR SPRAGUE INDUSTRIAL DISTRIBUTOR FOR CURRENT QUANTITY PRICES

*For Vibration Grade 1, change last digit of cat. no. to 1

SPRAGUE CAPACITORS

TYPE CP05 CAPACITORS TO MIL-C-25C



- Vitamin Q impregnation assures performance above and beyond MIL-C-25C requirements.
- Inserted tab construction for applications where minimum size is necessary.
- Positive hermetic closure of the metal cases assured by glass-to-metal solder-seal terminals.
- Type CP05 has insulating sleeve.
- Capacitance Tolerance $\pm 10\%$. Characteristic K Temperature Range (-55°C to $+125^{\circ}\text{C}$).
- Only popular insulated section (ungrounded case) capacitors are listed. For information on grounded case units, consult your Sprague Industrial Distributor.
- Call your Sprague Industrial Distributor for Quantity Prices.

μF	WVDC	D. x L.	Cat. No.*	μF	WVDC	D. x L.	Cat. No.*	μF	WVDC	D. x L.	Cat. No.*
.001	600	.298 x $1\frac{3}{16}$	CP05A1KF102K3	600	.463 x $1\frac{3}{16}$	CP05A1KF393K3		100	.463 x $1\frac{3}{16}$	CP05A1KB224K3	
.0012	600	.298 x $1\frac{3}{16}$	CP05A1KF122K3	1000	.625 x $1\frac{3}{16}$	CP05A1KG393K3		200	.463 x $1\frac{3}{16}$	CP05A1KC224K3	
.0015	600	.298 x $1\frac{3}{16}$	CP05A1KF152K3	200	.375 x $1\frac{5}{16}$	CP05A1KC473K3		400	.625 x $1\frac{7}{16}$	CP05A1KE224K3	.22
.0018	600	.298 x $1\frac{3}{16}$	CP05A1KF182K3	400	.463 x $1\frac{5}{16}$	CP05A1KE473K3		600	.625 x $1\frac{11}{16}$	CP05A1KF224K3	
.0022	600	.298 x $1\frac{3}{16}$	CP05A1KF222K3	600	.463 x $1\frac{3}{16}$	CP05A1KF473K3		1000	.813 x $2\frac{3}{16}$	CP05A1KG224K3	
.0027	600	.298 x $1\frac{3}{16}$	CP05A1KF272K3	1000	.625 x $1\frac{3}{16}$	CP05A1KG473K3		100	.463 x $1\frac{7}{16}$	CP05A1KB274K3	
.0033	600	.298 x $1\frac{3}{16}$	CP05A1KF332K3	200	.375 x $1\frac{5}{16}$	CP05A1KC563K3		200	.625 x $1\frac{3}{16}$	CP05A1KC274K3	.27
.0039	600	.298 x $1\frac{3}{16}$	CP05A1KF392K3	400	.463 x $1\frac{3}{16}$	CP05A1KE563K3		400	.625 x $1\frac{11}{16}$	CP05A1KE274K3	
.0047	600	.298 x $1\frac{3}{16}$	CP05A1KF472K3	600	.463 x $1\frac{7}{16}$	CP05A1KF563K3		600	.733 x $1\frac{11}{16}$	CP05A1KF274K3	
.0056	600	.298 x $1\frac{3}{16}$	CP05A1KF562K3	1000	.625 x $1\frac{7}{16}$	CP05A1KG563K3		1000	.813 x $2\frac{11}{16}$	CP05A1KG274K3	
.0068	600	.298 x $1\frac{3}{16}$	CP05A1KF682K3	200	.375 x $1\frac{5}{16}$	CP05A1KC683K3		100	.463 x $1\frac{7}{16}$	CP05A1KB334K3	
.0082	400	.298 x $1\frac{3}{16}$	CP05A1KE822K3	400	.463 x $1\frac{3}{16}$	CP05A1KE683K3		200	.625 x $1\frac{3}{16}$	CP05A1KC334K3	.33
	600	.375 x $1\frac{5}{16}$	CP05A1KF822K3	600	.463 x $1\frac{7}{16}$	CP05A1KF685K3		400	.625 x $1\frac{11}{16}$	CP05A1KE334K3	
	600	.375 x $1\frac{5}{16}$	CP05A1KF822K3	1000	.625 x $1\frac{7}{16}$	CP05A1KG683K3		600	.733 x $1\frac{11}{16}$	CP05A1KF334K3	
.01	400	.298 x $1\frac{3}{16}$	CP05A1KE103K3	100	.375 x $1\frac{5}{16}$	CP05A1KB823K3		1000	.813 x $2\frac{11}{16}$	CP05A1KG334K3	
	600	.375 x $1\frac{5}{16}$	CP05A1KF103K3	200	.463 x $1\frac{5}{16}$	CP05A1KC823K3		100	.625 x $1\frac{3}{16}$	CP05A1KB394K3	
.012	200	.298 x $1\frac{3}{16}$	CP05A1KC123K3	400	.463 x $1\frac{7}{16}$	CP05A1KE823K3		200	.625 x $1\frac{7}{16}$	CP05A1KC394K3	.39
	600	.375 x $1\frac{5}{16}$	CP05A1KF123K3	600	.625 x $1\frac{3}{16}$	CP05A1KF823K3		400	.733 x $1\frac{11}{16}$	CP05A1KE394K3	
	600	.375 x $1\frac{5}{16}$	CP05A1KF123K3	1000	.625 x $1\frac{11}{16}$	CP05A1KG823K3		600	.813 x $2\frac{3}{16}$	CP05A1KF394K3	
	200	.298 x $1\frac{3}{16}$	CP05A1KC153K3	100	.463 x $1\frac{5}{16}$	CP05A1KB104K3		1000	1.063 x $2\frac{3}{16}$	CP05A1KG394K3	
.015	600	.375 x $1\frac{5}{16}$	CP05A1KF153K3	200	.463 x $1\frac{3}{16}$	CP05A1KC104K3		100	.625 x $1\frac{3}{16}$	CP05A1KB474K3	
	1000	.463 x $1\frac{5}{16}$	CP05A1KG153K3	400	.463 x $1\frac{7}{16}$	CP05A1KC104K3	.1	200	.625 x $1\frac{7}{16}$	CP05A1KC474K3	
	200	.298 x $1\frac{3}{16}$	CP05A1KC183K3	600	.625 x $1\frac{3}{16}$	CP05A1KF104K3		400	.733 x $1\frac{11}{16}$	CP05A1KE474K3	.47
.018	600	.375 x $1\frac{5}{16}$	CP05A1KF183K3	1000	.625 x $1\frac{11}{16}$	CP05A1KG104K3		600	.813 x $2\frac{3}{16}$	CP05A1KF474K3	
	1000	.463 x $1\frac{3}{16}$	CP05A1KG183K3	100	.463 x $1\frac{5}{16}$	CP05A1KB124K3		1000	1.063 x $2\frac{3}{16}$	CP05A1KG474K3	
	200	.298 x $1\frac{3}{16}$	CP05A1KC223K3	200	.463 x $1\frac{3}{16}$	CP05A1KC124K3		100	.625 x $1\frac{7}{16}$	CP05A1KB564K3	
.022	600	.375 x $1\frac{5}{16}$	CP05A1KF223K3	400	.625 x $1\frac{3}{16}$	CP05A1KE124K3	.12	200	.625 x $1\frac{11}{16}$	CP05A1KC564K3	
	1000	.463 x $1\frac{3}{16}$	CP05A1KG223K3	600	.625 x $1\frac{7}{16}$	CP05A1KF124K3		400	.813 x $2\frac{3}{16}$	CP05A1KE564K3	.56
	100	.298 x $1\frac{3}{16}$	CP05A1KB273K3	1000	.733 x $1\frac{11}{16}$	CP05A1KG124K3		600	1.063 x $1\frac{11}{16}$	CP05A1KF564K3	
	400	.375 x $1\frac{5}{16}$	CP05A1KE273K3	100	.463 x $1\frac{5}{16}$	CP05A1KB154K3		100	.625 x $1\frac{7}{16}$	CP05A1KB684K3	.68
	600	.463 x $1\frac{5}{16}$	CP05A1KF273K3	200	.463 x $1\frac{3}{16}$	CP05A1KC154K3		200	.625 x $1\frac{11}{16}$	CP05A1KC684K3	
	1000	1.463 x $1\frac{7}{16}$	CP05A1KG273K3	400	.625 x $1\frac{3}{16}$	CP05A1KE154K3	.15	400	.813 x $2\frac{3}{16}$	CP05A1KE684K3	
	100	.298 x $1\frac{3}{16}$	CP05A1KB333K3	600	.625 x $1\frac{7}{16}$	CP05A1KF154K3		600	1.063 x $1\frac{11}{16}$	CP05A1KF684K3	
	400	.375 x $1\frac{5}{16}$	CP05A1KE333K3	1000	.733 x $1\frac{11}{16}$	CP05A1KG154K3		100	.625 x $1\frac{3}{16}$	CP05A1KB824K3	.82
	600	.463 x $1\frac{5}{16}$	CP05A1KF333K3	100	.463 x $1\frac{3}{16}$	CP05A1KB184K3		200	.733 x $1\frac{11}{16}$	CP05A1KC824K3	
	1000	1.463 x $1\frac{7}{16}$	CP05A1KG333K3	200	.463 x $1\frac{7}{16}$	CP05A1KC184K3		400	1.063 x $1\frac{11}{16}$	CP05A1KE824K3	
	200	.375 x $1\frac{5}{16}$	CP05A1KC393K3	400	.625 x $1\frac{7}{16}$	CP05A1KE184K3	.18	100	.625 x $1\frac{11}{16}$	CP05A1KB105K3	
.039	400	.463 x $1\frac{5}{16}$	CP05A1KE393K3	600	.625 x $1\frac{11}{16}$	CP05A1KF184K3		200	.733 x $1\frac{3}{16}$	CP05A1KC105K3	1.0
				1000	.813 x $2\frac{3}{16}$	CP05A1KG184K3		400	1.063 x $1\frac{11}{16}$	CP05A1KE105K3	

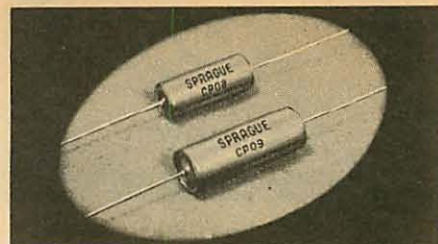
*For Vibration Grade 1, change last digit of Catalog Number to "1."

CALL YOUR SPRAGUE INDUSTRIAL DISTRIBUTOR FOR CURRENT QUANTITY PRICES

SPRAGUE CAPACITORS

TYPE CP08 CAPACITORS TO MIL-C-25C

- Vitamin Q impregnation assures performance above and beyond MIL-C-25C requirements.
- Positive hermetic closure of the metal cases with glass-to-metal solder-seal terminals.
- Capacitance Tolerance $\pm 10\%$. Characteristic K Temperature Range (-55°C to $+125^{\circ}\text{C}$).
- Type CP08 has plain metal case.
- Extended foil (so-called non-inductive section) construction.
- Listed below are popular insulated section (ungrounded case) capacitors. Consult your Sprague Industrial Distributor for information on grounded case units.
- Call your Sprague Industrial Distributor for Quantity Prices.



μF	WVDC	D. x L.	Cat. No.*	μF	WVDC	D. x L.	Cat. No.*	μF	WVDC	D. x L.	Cat. No.*
.001	600	.235 x 3/4	CP08A1KF102K3	.012	400	.312 x 7/8	CP08A1KE123K3	.068	200	.400 x 7/8	CP08A1KC683K3
	1000	.400 x 7/8	CP08A1KG102K3		600	.400 x 7/8	CP08A1KF123K3		400	.400 x 1 1/8	CP08A1KE683K3
.0012	600	.235 x 3/4	CP08A1KF122K3		1000	.400 x 1 1/8	CP08A1KG123K3		600	.562 x 1 1/8	CP08A1KF683K3
	1000	.400 x 7/8	CP08A1KG122K3						1000	.562 x 1 5/8	CP08A1KG683K3
.0015	600	.235 x 3/4	CP08A1KF152K3		100	.235 x 3/4	CP08A1KB153K3		100	.400 x 7/8	CP08A1KB823K3
	1000	.400 x 7/8	CP08A1KG152K3	.015	400	.312 x 7/8	CP08A1KE153K3		200	.400 x 1 1/8	CP08A1KC823K3
.0018	600	.235 x 3/4	CP08A1KF182K3		600	.400 x 7/8	CP08A1KF153K3	.082	400	.562 x 1 1/8	CP08A1KE823K3
	1000	.400 x 7/8	CP08A1KG182K3		1000	.400 x 1 1/8	CP08A1KG153K3		600	.562 x 1 3/8	CP08A1KF823K3
.0022	600	.235 x 3/4	CP08A1KF222K3		200	.312 x 7/8	CP08A1KC183K3		1000	.670 x 1 5/8	CP08A1KG823K3
	1000	.400 x 7/8	CP08A1KG222K3	0.18	600	.400 x 7/8	CP08A1KF183K3		100	.400 x 7/8	CP08A1KB104K3
					1000	.400 x 1 3/8	CP08A1KG183K3		200	.400 x 1 1/8	CP08A1KC104K3
.0027	400	.235 x 3/4	CP08A1KE272K3		200	.312 x 7/8	CP08A1KC223K3	.1	400	.562 x 1 1/8	CP08A1KE104K3
	600	.312 x 7/8	CP08A1KF272K3	.022	600	.400 x 7/8	CP08A1KF223K3		600	.562 x 1 3/8	CP08A1KF104K3
	1000	.400 x 7/8	CP08A1KG272K3		1000	.400 x 1 3/8	CP08A1KG223K3		1000	.670 x 1 5/8	CP08A1KG104K3
									100	.400 x 1 1/8	CP08A1KB124K3
.0033	400	.235 x 3/4	CP08A1KE332K3		200	.312 x 7/8	CP08A1KC273K3	.12	200	.400 x 1 3/8	CP08A1KC124K3
	600	.312 x 7/8	CP08A1KF332K3	.027	400	.400 x 7/8	CP08A1KE273K3		400	.562 x 1 3/8	CP08A1KE124K3
	1000	.400 x 7/8	CP08A1KG332K3		600	.400 x 1 1/8	CP08A1KF273K3		600	.562 x 1 5/8	CP08A1KF124K3
					1000	.562 x 1 1/8	CP08A1KG273K3		1000	.670 x 1 7/8	CP08A1KG124K3
.0039	200	.235 x 3/4	CP08A1KC392K3						100	.400 x 1 1/8	CP08A1KB154K3
	600	.312 x 7/8	CP08A1KF392K3		200	.312 x 7/8	CP08A1KC333K3	.15	200	.400 x 1 3/8	CP08A1KC154K3
	1000	.400 x 7/8	CP08A1KG392K3	.033	400	.400 x 7/8	CP08A1KE333K3		400	.562 x 1 3/8	CP08A1KE154K3
					600	.400 x 1 1/8	CP08A1KF333K3		600	.562 x 1 5/8	CP08A1KF154K3
.0047	200	.235 x 3/4	CP08A1KC472K3		1000	.562 x 1 1/8	CP08A1KG333K3		1000	.670 x 1 7/8	CP08A1KG154K3
	600	.312 x 7/8	CP08A1KF472K3						100	.400 x 1 3/8	CP08A1KB184K3
	1000	.400 x 7/8	CP08A1KG472K3		100	.312 x 7/8	CP08A1KB393K3	.18	200	.562 x 1 1/8	CP08A1KC184K3
					200	.400 x 7/8	CP08A1KC393K3		400	.562 x 1 5/8	CP08A1KE184K3
.0056	200	.235 x 3/4	CP08A1KC562K3	.039	400	.400 x 1 1/8	CP08A1KE393K3		600	.670 x 1 5/8	CP08A1KF184K3
	600	.312 x 7/8	CP08A1KF562K3		600	.400 x 1 3/8	CP08A1KF393K3		1000	.750 x 2 1/8	CP08A1KG184K3
	1000	.400 x 7/8	CP08A1KG562K3		1000	.562 x 1 3/8	CP08A1KG393K3				
									100	.400 x 1 3/8	CP08A1KB224K3
.0068	200	.235 x 3/4	CP08A1KC682K3		100	.312 x 7/8	CP08A1KB473K3	.22	200	.562 x 1 1/8	CP08A1KC224K3
	600	.312 x 7/8	CP08A1KF682K3		200	.400 x 7/8	CP08A1KC473K3		400	.562 x 1 5/8	CP08A1KE224K3
	1000	.400 x 7/8	CP08A1KG682K3	.047	400	.400 x 1 1/8	CP08A1KE473K3		600	.670 x 1 5/8	CP08A1KF224K3
					600	.400 x 1 3/8	CP08A1KF473K3		1000	.750 x 2 1/8	CP08A1KG224K3
.0082	100	.235 x 3/4	CP08A1KB822K3		1000	.562 x 1 3/8	CP08A1KG473K3				
	600	.312 x 7/8	CP08A1KF822K3						100	.562 x 1 1/8	CP08A1KB274K3
	1000	.400 x 7/8	CP08A1KG822K3		200	.400 x 7/8	CP08A1KC563K3	.27	200	.562 x 1 3/8	CP08A1KC274K3
				.056	400	.400 x 1 3/8	CP08A1KE563K3		400	.670 x 1 5/8	CP08A1KE274K3
.01	100	.235 x 3/4	CP08A1KB103K3		600	.562 x 1 1/8	CP08A1KF563K3		600	.750 x 2 1/8	CP08A1KF274K3
	600	.312 x 7/8	CP08A1KF103K3		1000	.562 x 1 5/8	CP08A1KG563K3		1000	1.000 x 2 1/8	CP08A1KG274K3
	1000	.400 x 7/8	CP08A1KG103K3								

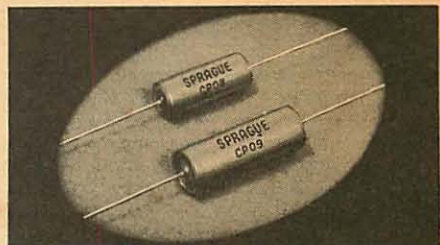
*For Vibration Grade 1, change last digit of Catalog Number to "1."

CALL YOUR SPRAGUE INDUSTRIAL DISTRIBUTOR FOR CURRENT QUANTITY PRICES

SPRAGUE CAPACITORS

TYPE CP09 CAPACITORS TO MIL-C-25A

- Vitamin Q impregnation assures performance above and beyond MIL-C-25A requirements.
- Positive hermetic closure of the metal cases with glass-to-metal solder-seal terminals.
- Available in Characteristic E (-55°C to +85°C) or Characteristic K (-55°C to +125°C).
- Type CP09 has insulating sleeve.
- Extended foil, non-inductive section construction.
- Listed below are popular insulated section (ungrounded case) capacitors. Consult your Sprague Industrial Distributor for information on grounded case units.
- Call your Sprague Industrial Distributor for Quantity Prices.



μF	WVDC	Size D. x L.	Characteristic E -55°C to +85°C				Characteristic K -55°C to +125°C			
			±20% Tol.		±10% Tol.		±20% Tol.		±10% Tol.	
			Cat. No.		Cat. No.		Cat. No.		Cat. No.	
.001	600	.298 x 1 ³ / ₁₆	CP09A1EF102M	CP09A1EF102K	CP09A1KF102M	CP09A1KF102K	CALL YOUR SPRAGUE INDUSTRIAL DISTRIBUTOR FOR QUANTITY PRICES	CALL YOUR SPRAGUE INDUSTRIAL DISTRIBUTOR FOR QUANTITY PRICES	CALL YOUR SPRAGUE INDUSTRIAL DISTRIBUTOR FOR QUANTITY PRICES	CALL YOUR SPRAGUE INDUSTRIAL DISTRIBUTOR FOR QUANTITY PRICES
.0015	600	.298 x 1 ³ / ₁₆	CP09A1EF152M	CP09A1EF152K	CP09A1KF152M	CP09A1KF152K				
.0022	600	.298 x 1 ³ / ₁₆	CP09A1EF222M	CP09A1EF222K	CP09A1KF222M	CP09A1KF222K				
.0033	400	.298 x 1 ³ / ₁₆	CP09A1EE332M	CP09A1EE332K	CP09A1KE332M	CP09A1KE332K				
	600	.375 x 1 ³ / ₁₆	CP09A1EF332M	CP09A1EF332K	CP09A1KF332M	CP09A1KF332K				
.0047	200	.298 x 1 ³ / ₁₆	CP09A1EC472M	CP09A1EC472K	CP09A1KC472M	CP09A1KC472K				
	600	.375 x 1 ³ / ₁₆	CP09A1EF472M	CP09A1EF472K	CP09A1KF472M	CP09A1KF472K				
.0068	200	.298 x 1 ³ / ₁₆	CP09A1EC682M	CP09A1EC682K	CP09A1KC682M	CP09A1KC682K				
	600	.375 x 1 ³ / ₁₆	CP09A1EF682M	CP09A1EF682K	CP09A1KF682M	CP09A1KF682K				
.01	100	.298 x 1 ³ / ₁₆	CP09A1EB103M	CP09A1EB103K	CP09A1KB103M	CP09A1KB103K				
	600	.375 x 1 ³ / ₁₆	CP09A1EF103M	CP09A1EF103K	CP09A1KF103M	CP09A1KF103K				
.015	100	.298 x 1 ³ / ₁₆	CP09A1EB153M	CP09A1EB153K	CP09A1KB153M	CP09A1KB153K				
	400	.375 x 1 ³ / ₁₆	CP09A1EE153M	CP09A1EE153K	CP09A1KE153M	CP09A1KE153K				
	600	.463 x 1 ³ / ₁₆	CP09A1EF153M	CP09A1EF153K	CP09A1KF153M	CP09A1KF153K				
.022	200	.375 x 1 ³ / ₁₆	CP09A1EC223M	CP09A1EC223K	CP09A1KC223M	CP09A1KC223K				
	600	.463 x 1 ³ / ₁₆	CP09A1EF223M	CP09A1EF223K	CP09A1KF223M	CP09A1KF223K				
.033	200	.375 x 1 ³ / ₁₆	CP09A1EC333M	CP09A1EC333K	CP09A1KC333M	CP09A1KC333K				
	400	.463 x 1 ³ / ₁₆	CP09A1EE333M	CP09A1EE333K	CP09A1KE333M	CP09A1KE333K				
	600	.463 x 1 ³ / ₁₆	CP09A1EF333M	CP09A1EF333K	CP09A1KF333M	CP09A1KF333K				
.047	100	.375 x 1 ³ / ₁₆	CP09A1EB473M	CP09A1EB473K	CP09A1KB473M	CP09A1KB473K				
	200	.463 x 1 ³ / ₁₆	CP09A1EC473M	CP09A1EC473K	CP09A1KC473M	CP09A1KC473K				
	400	.463 x 1 ³ / ₁₆	CP09A1EE473M	CP09A1EE473K	CP09A1KE473M	CP09A1KE473K				
	600	.463 x 1 ³ / ₁₆	CP09A1EF473M	CP09A1EF473K	CP09A1KF473M	CP09A1KF473K				
.068	200	.463 x 1 ³ / ₁₆	CP09A1EC683M	CP09A1EC683K	CP09A1KC683M	CP09A1KC683K				
	400	.463 x 1 ³ / ₁₆	CP09A1EE683M	CP09A1EE683K	CP09A1KE683M	CP09A1KE683K				
	600	.625 x 1 ³ / ₁₆	CP09A1EF683M	CP09A1EF683K	CP09A1KF683M	CP09A1KF683K				
.1	100	.463 x 1 ³ / ₁₆	CP09A1EB104M	CP09A1EB104K	CP09A1KB104M	CP09A1KB104K				
	200	.463 x 1 ³ / ₁₆	CP09A1EC104M	CP09A1EC104K	CP09A1KC104M	CP09A1KC104K				
	400	.625 x 1 ³ / ₁₆	CP09A1EE104M	CP09A1EE104K	CP09A1KE104M	CP09A1KE104K				
	600	.625 x 1 ³ / ₁₆	CP09A1EF104M	CP09A1EF104K	CP09A1KF104M	CP09A1KF104K				
.15	100	.463 x 1 ³ / ₁₆	CP09A1EB154M	CP09A1EB154K	CP09A1KB154M	CP09A1KB154K				
	200	.463 x 1 ³ / ₁₆	CP09A1EC154M	CP09A1EC154K	CP09A1KC154M	CP09A1KC154K				
	400	.625 x 1 ³ / ₁₆	CP09A1EE154M	CP09A1EE154K	CP09A1KE154M	CP09A1KE154K				
	600	.625 x 1 ¹ / ₁₆	CP09A1EF154M	CP09A1EF154K	CP09A1KF154M	CP09A1KF154K				
.22	100	.463 x 1 ³ / ₁₆	CP09A1EB224M	CP09A1EB224K	CP09A1KB224M	CP09A1KB224K				
	200	.625 x 1 ³ / ₁₆	CP09A1EC224M	CP09A1EC224K	CP09A1KC224M	CP09A1KC224K				
	400	.625 x 1 ¹ / ₁₆	CP09A1EE224M	CP09A1EE224K	CP09A1KE224M	CP09A1KE224K				
	600	.733 x 1 ¹ / ₁₆	CP09A1EF224M	CP09A1EF224K	CP09A1KF224M	CP09A1KF224K				
.33	100	.625 x 1 ³ / ₁₆	CP09A1EB334M	CP09A1EB334K	CP09A1KB334M	CP09A1KB334K				
	200	.625 x 1 ³ / ₁₆	CP09A1EC334M	CP09A1EC334K	CP09A1KC334M	CP09A1KC334K				
	400	.733 x 1 ¹ / ₁₆	CP09A1EE334M	CP09A1EE334K	CP09A1KE334M	CP09A1KE334K				
	600	.813 x 2 ³ / ₁₆	CP09A1EF334M	CP09A1EF334K	CP09A1KF334M	CP09A1KF334K				
.47	100	.625 x 1 ³ / ₁₆	CP09A1EB474M	CP09A1EB474K	CP09A1KB474M	CP09A1KB474K				
	200	.625 x 1 ¹ / ₁₆	CP09A1EC474M	CP09A1EC474K	CP09A1KC474M	CP09A1KC474K				
	400	.813 x 2 ³ / ₁₆	CP09A1EE474M	CP09A1EE474K	CP09A1KE474M	CP09A1KE474K				
	600	.813 x 2 ⁷ / ₁₆	CP09A1EF474M	CP09A1EF474K	CP09A1KF474M	CP09A1KF474K				
.68	100	.625 x 1 ¹ / ₁₆	CP09A1EB684M	CP09A1EB684K	CP09A1KB684M	CP09A1KB684K				
	200	.733 x 1 ¹ / ₁₆	CP09A1EC684M	CP09A1EC684K	CP09A1KC684M	CP09A1KC684K				
1.0	100	.733 x 1 ¹ / ₁₆	CP09A1EB105M	CP09A1EB105K	CP09A1KB105M	CP09A1KB105K				
	200	.813 x 2 ³ / ₁₆	CP09A1EC105M	CP09A1EC105K	CP09A1KC105M	CP09A1KC105K				

SPRAGUE CAPACITORS

TYPE CP09 CAPACITORS TO MIL-C-25C

(±10% CAPACITANCE TOLERANCE, CHARACTERISTIC K)

μF	WVDC	D. x L.	Cat. No.
.001	600	.298 x 1 ³ / ₁₆	CP09A1KF102K3
	1000	.463 x 1 ³ / ₁₆	CP09A1KG102K3
.0012	600	.298 x 1 ³ / ₁₆	CP09A1KF122K3
	1000	.463 x 1 ³ / ₁₆	CP09A1KG122K3
.0015	600	.298 x 1 ³ / ₁₆	CP09A1KF152K3
	1000	.463 x 1 ³ / ₁₆	CP09A1KG152K3
.0018	600	.298 x 1 ³ / ₁₆	CP09A1KF182K3
	1000	.463 x 1 ³ / ₁₆	CP09A1KG182K3
.0022	600	.298 x 1 ³ / ₁₆	CP09A1KF222K3
	1000	.463 x 1 ³ / ₁₆	CP09A1KG222K3
.0027	400	.298 x 1 ³ / ₁₆	CP09A1KE272K3
	600	.375 x 1 ³ / ₁₆	CP09A1KF272K3
	1000	.463 x 1 ³ / ₁₆	CP09A1KG272K3
.0033	400	.298 x 1 ³ / ₁₆	CP09A1KE332K3
	600	.375 x 1 ³ / ₁₆	CP09A1KF332K3
	1000	.463 x 1 ³ / ₁₆	CP09A1KG332K3
.0039	200	.298 x 1 ³ / ₁₆	CP09A1KC392K3
	600	.375 x 1 ³ / ₁₆	CP09A1KF393K3
	1000	.463 x 1 ³ / ₁₆	CP09A1KG393K3
.0047	200	.298 x 1 ³ / ₁₆	CP09A1KC472K3
	600	.375 x 1 ³ / ₁₆	CP09A1KF472K3
	1000	.463 x 1 ³ / ₁₆	CP09A1KG472K3
.0056	200	.298 x 1 ³ / ₁₆	CP09A1KC562K3
	600	.375 x 1 ³ / ₁₆	CP09A1KF562K3
	1000	.463 x 1 ³ / ₁₆	CP09A1KG562K3
.0068	200	.298 x 1 ³ / ₁₆	CP09A1KC682K3
	600	.375 x 1 ³ / ₁₆	CP09A1KF682K3
	1000	.463 x 1 ³ / ₁₆	CP09A1KG682K3
.0082	100	.298 x 1 ³ / ₁₆	CP09A1KB822K3
	600	.375 x 1 ³ / ₁₆	CP09A1KF822K3
	1000	.463 x 1 ³ / ₁₆	CP09A1KG822K3
.01	100	.298 x 1 ³ / ₁₆	CP09A1KB103K3
	600	.375 x 1 ³ / ₁₆	CP09A1KF103K3
	1000	.463 x 1 ³ / ₁₆	CP09A1KG103K3
.012	100	.298 x 1 ³ / ₁₆	CP09A1KB123K3
	400	.375 x 1 ³ / ₁₆	CP09A1KE123K3
	600	.463 x 1 ³ / ₁₆	CP09A1KF123K3
	1000	.463 x 1 ³ / ₁₆	CP09A1KG123K3
.015	100	.298 x 1 ³ / ₁₆	CP09A1KB153K3
	400	.375 x 1 ³ / ₁₆	CP09A1KE153K3
	600	.463 x 1 ³ / ₁₆	CP09A1KF153K3
	1000	.463 x 1 ³ / ₁₆	CP09A1KG153K3
.018	200	.375 x 1 ³ / ₁₆	CP09A1KC183K3
	600	.463 x 1 ³ / ₁₆	CP09A1KF183K3
	1000	.463 x 1 ³ / ₁₆	CP09A1KG183K3
.022	200	.375 x 1 ³ / ₁₆	CP09A1KC223K3
	600	.463 x 1 ³ / ₁₆	CP09A1KF223K3
	1000	.463 x 1 ³ / ₁₆	CP09A1KG223K3

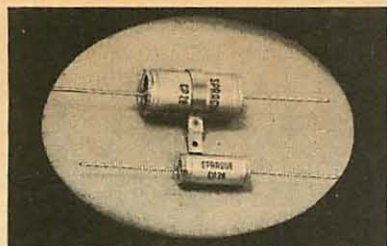
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μF	WVDC	D. x L.	Cat. No.
.027	200	.375 x 1 ³ / ₁₆	CP09A1KC273K3
	400	.463 x 1 ³ / ₁₆	CP09A1KE273K3
	600	.463 x 1 ³ / ₁₆	CP09A1KF273K3
	1000	.625 x 1 ³ / ₁₆	CP09A1KG273K3
.033	200	.375 x 1 ³ / ₁₆	CP09A1KC333K3
	400	.463 x 1 ³ / ₁₆	CP09A1KE333K3
	600	.463 x 1 ³ / ₁₆	CP09A1KF333K3
	1000	.625 x 1 ³ / ₁₆	CP09A1KG333K3
.039	100	.375 x 1 ³ / ₁₆	CP09A1KB393K3
	200	.463 x 1 ³ / ₁₆	CP09A1KC393K3
	400	.463 x 1 ³ / ₁₆	CP09A1KE393K3
	600	.463 x 1 ³ / ₁₆	CP09A1KF393K3
.047	100	.375 x 1 ³ / ₁₆	CP09A1KB473K3
	200	.463 x 1 ³ / ₁₆	CP09A1KC473K3
	400	.463 x 1 ³ / ₁₆	CP09A1KE473K3
	600	.463 x 1 ³ / ₁₆	CP09A1KF473K3
.056	100	.375 x 1 ³ / ₁₆	CP09A1KB563K3
	200	.463 x 1 ³ / ₁₆	CP09A1KC563K3
	400	.463 x 1 ³ / ₁₆	CP09A1KE563K3
	600	.463 x 1 ³ / ₁₆	CP09A1KF563K3
.068	200	.463 x 1 ³ / ₁₆	CP09A1KC683K3
	400	.463 x 1 ³ / ₁₆	CP09A1KE683K3
	600	.625 x 1 ³ / ₁₆	CP09A1KF683K3
	1000	.625 x 1 ¹ / ₁₆	CP09A1KG683K3
.082	100	.463 x 1 ³ / ₁₆	CP09A1KB823K3
	200	.463 x 1 ³ / ₁₆	CP09A1KC823K3
	400	.625 x 1 ³ / ₁₆	CP09A1KE823K3
	600	.625 x 1 ³ / ₁₆	CP09A1KF823K3
.1	100	.463 x 1 ³ / ₁₆	CP09A1KB104K3
	200	.463 x 1 ³ / ₁₆	CP09A1KC104K3
	400	.625 x 1 ³ / ₁₆	CP09A1KE104K3
	600	.625 x 1 ³ / ₁₆	CP09A1KF104K3
.12	100	.463 x 1 ³ / ₁₆	CP09A1KB124K3
	200	.463 x 1 ³ / ₁₆	CP09A1KC124K3
	400	.625 x 1 ³ / ₁₆	CP09A1KE124K3
	600	.625 x 1 ¹ / ₁₆	CP09A1KF124K3
.15	100	.463 x 1 ³ / ₁₆	CP09A1KB154K3
	200	.463 x 1 ³ / ₁₆	CP09A1KC154K3
	400	.625 x 1 ³ / ₁₆	CP09A1KE154K3
	600	.625 x 1 ¹ / ₁₆	CP09A1KF154K3
.18	100	.463 x 1 ³ / ₁₆	CP09A1KB184K3
	200	.625 x 1 ³ / ₁₆	CP09A1KC184K3
	400	.625 x 1 ¹ / ₁₆	CP09A1KE184K3
	600	.733 x 1 ¹ / ₁₆	CP09A1KF184K3
.22	100	.463 x 1 ³ / ₁₆	CP09A1KB224K3
	200	.625 x 1 ³ / ₁₆	CP09A1KC224K3
	400	.625 x 1 ¹ / ₁₆	CP09A1KE224K3
	600	.733 x 1 ¹ / ₁₆	CP09A1KF224K3
.22	100	.463 x 1 ³ / ₁₆	CP09A1KB224K3
	200	.625 x 1 ³ / ₁₆	CP09A1KC224K3
	400	.625 x 1 ¹ / ₁₆	CP09A1KE224K3
	600	.733 x 1 ¹ / ₁₆	CP09A1KF224K3

CALL YOUR SPRAGUE INDUSTRIAL DISTRIBUTOR FOR CURRENT QUANTITY PRICES

SPRAGUE CAPACITORS

MIL-C-25A CAPACITORS — TYPES CP26 and CP28



- Impregnated with specially processed mineral oil to exceed performance requirements of Specification MIL-C-25A
- Type CP26 has outer insulating sleeve — Type CP28 has insulating sleeve plus metal strap for radial mounting.
- Hermetically sealed for protection against leakage and contamination

- Meet temperature characteristic E (-55°C to $+85^{\circ}\text{C}$ operation)
- Capacitor sections are insulated from metal cases
- Call Your Sprague Distributor for Current Prices

NOTE: Capacitors listed below have a capacitance tolerance of $\pm 10\%$. For $\pm 20\%$ units, change last letter in catalog number from K to M.

TYPE CP26 (without Mounting Bracket)				Call Your Sprague Distributor for Current Prices	TYPE CP28 (Radial Mounting Bracket)				Call Your Sprague Distributor for Current Prices
μF	Volts	Diam. x Length	Cat. No.		μF	Volts	Diam. x Length	Cat. No.	
.006	600	$\frac{1}{2} \times 1\frac{1}{8}$	CP26A1EF602K		.1	600	$1\frac{1}{8} \times 2\frac{1}{8}$	CP28A1EF104K	
.01	600	$\frac{1}{2} \times 1\frac{1}{8}$	CP26A1EF103K		.25	600	$1\frac{1}{8} \times 2\frac{1}{8}$	CP28A1EF254K	
.02	600	$\frac{1}{2} \times 1\frac{1}{8}$	CP26A1EF203K		.5	600	$1\frac{1}{8} \times 2\frac{1}{8}$	CP28A1EF504K	
.05	600	$1\frac{1}{8} \times 1\frac{1}{8}$	CP26A1EF503K						
.5	200	$1\frac{1}{8} \times 2\frac{1}{8}$	CP26A1EC504K						

MIL-C-25A CAPACITORS — TYPES CP40 and CP41

- Designed and manufactured for service life and performance characteristics exceeding MIL requirements

- Type CP40 has screw and nut connection on positive terminal, can is negative — Type CP41 has two solder-lug terminals, with capacitor section insulated from metal case

- Impregnated with specially processed mineral oil for characteristic E operation — Will withstand wide temperature variations (-55°C to $+85^{\circ}\text{C}$)

- Hermetically sealed in metal cases, with threaded screw necks for mounting purposes
- Call Your Sprague Distributor for Current Prices



NOTE: Capacitors listed below have a capacitance tolerance of $\pm 10\%$. For $\pm 20\%$ units, change last letter in catalog number from K to M.

TYPE CP40 (One Terminal)				Call Your Sprague Distributor for Current Prices	TYPE CP41 (Two Terminals)				Call Your Sprague Distributor for Current Prices
μF	Volts	Diam. x Length	Cat. No.		μF	Volts	Diam. x Length	Cat. No.	
2.0	600	$1\frac{1}{2} \times 3\frac{3}{8}$	CP40C2EF205K		2.0	600	$1\frac{1}{2} \times 3\frac{3}{8}$	CP41B1EF205K	
4.0	600	$1\frac{1}{2} \times 5\frac{1}{4}$	CP40C2EF405K		4.0	600	$1\frac{1}{2} \times 5\frac{1}{4}$	CP41B1EF405K	



MIL-C-25A CAPACITORS—TYPE CP53

- Impregnated with specially processed mineral oil to exceed performance requirements of MIL-C-25A
- Hermetically sealed, with silicone rubber compression terminals
- Rated for -55°C to $+85^{\circ}\text{C}$ operation

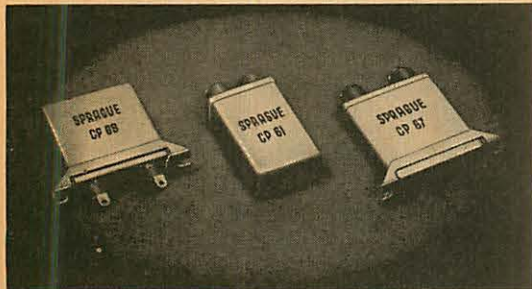
- Drawn metal cases have mounting flanges as integral part of containers
- Single and dual capacitance units have insulated sections — triple capacitance units have grounded cases
- Call Your Sprague Distributor for Current Prices

NOTE: Capacitors listed below have capacitance tolerances of $+20\%$, -10% (V) or $\pm 10\%$ (K). For $\pm 20\%$ units, change last letter in catalog number from K to M or V to M.

μF	Volts	L. x W. x H.	Cat. No.	Call Your Sprague Distributor for Current Prices	μF	Volts	L. x W. x H.	Cat. No.	Call Your Sprague Distributor for Current Prices	
Single Capacitance						Dual Capacitance				
.05	600	$1\frac{1}{8} \times 1 \times \frac{3}{4}$	CP53B1EF503K		.05 + .05	600	$1\frac{1}{8} \times 1 \times \frac{3}{4}$	CP53B4EF503V		
.05	1000	$1\frac{1}{8} \times 1 \times \frac{3}{4}$	CP53B1EG503K		.05 + .05	1000	$1\frac{1}{8} \times 1 \times \frac{3}{4}$	CP53B4EG503V		
.1	600	$1\frac{1}{8} \times 1 \times \frac{3}{4}$	CP53B1EF104K		.1 + .1	600	$1\frac{1}{8} \times 1 \times \frac{3}{4}$	CP53B4EF104V		
.1	1000	$1\frac{1}{8} \times 1 \times \frac{3}{4}$	CP53B1EG104K		.1 + .1	1000	$1\frac{1}{8} \times 1 \times \frac{3}{4}$	CP53B4EG104V		
.25	600	$1\frac{1}{8} \times 1 \times \frac{3}{4}$	CP53B1EF254K		.25 + .25	600	$1\frac{1}{8} \times 1 \times 1$	CP53B4EF254V		
.25	1000	$1\frac{1}{8} \times 1 \times \frac{3}{4}$	CP53B1EG254K		.25 + .25	1000	$2 \times 1\frac{3}{4} \times \frac{7}{8}$	CP53B4EG254V		
.5	400	$1\frac{1}{8} \times 1 \times \frac{3}{4}$	CP53B1EE504K		.5 + .5	600	$2 \times 1\frac{3}{4} \times 1$	CP53B4EF504V		
.5	600	$1\frac{1}{8} \times 1 \times 1$	CP53B1EF504K		.5 + .5	1000	$2 \times 2 \times 1\frac{1}{8}$	CP53B4EG504V		
.5	1000	$2 \times 1\frac{3}{4} \times \frac{7}{8}$	CP53B1EG504K		1.0 + 1.0	600	$2 \times 2 \times 1\frac{1}{8}$	CP53B4EF105V		
1.0	600	$2 \times 1\frac{3}{4} \times 1$	CP53B1EF105K		Triple Capacitance					
1.0	1000	$2 \times 2 \times 1\frac{1}{8}$	CP53B1EG105K		.05 + .05 + .05	600	$1\frac{1}{8} \times 1 \times \frac{3}{4}$	CP53B5EF503V		
2.0	100	$2 \times 1\frac{3}{4} \times \frac{7}{8}$	CP53B1EB205K		.1 + .1 + .1	600	$1\frac{1}{8} \times 1 \times \frac{3}{4}$	CP53B5EF104V		
2.0	200	$2 \times 2 \times 1$	CP53B1EC205K		.5 + .5 + .5	600	$2 \times 2 \times 1\frac{1}{8}$	CP53B5EF504V		
2.0	600	$2 \times 2 \times 1\frac{1}{8}$	CP53B1EF205K							
4.0	100	$2 \times 2 \times 1\frac{1}{8}$	CP53B1EB405K							

SPRAGUE CAPACITORS

TYPE CP61, CP67, CP69, CAPACITORS to MIL-C-25A



- Mineral Oil Impregnated for Minimum Capacitance Change with Temperature
- Hermetically Sealed in Drawn Metal Cases
- Have Silicone Rubber Compression Terminals for Positive Prevention Against Entrance of Moisture or Leakage of Impregnant
- Designed and Manufactured for Service Life Beyond Specification Requirements
- Units Listed are Most Popular Ratings. Complete Military Line Available from Sprague
- CP61 Capacitors Require Separate Mounting Brackets.
- CP67 and CP69 have integral channel brackets
- For quantity prices, see your Sprague Industrial Distributor.

NOTE: These units have capacitance tolerances of $\pm 10\%$ (K) or $\pm 20\%$ (V). For $\pm 20\%$ units, change the last letter in the catalog number from K to M or V to S.

μF	WVDC	CAT. NO.	SIZE	Mounting Brackets* CAT. NO.
TYPE CP61				
.05	600	CP61B1EF503K	$1\frac{3}{4} \times 1\frac{1}{4} \times 1\frac{1}{4}$	CP06-FA1
.1	600	CP61B1EF104K	$1\frac{3}{4} \times 1\frac{1}{4} \times 1\frac{3}{8}$	CP06-FA2
.25	600	CP61B1EF254K	$1\frac{3}{4} \times 1\frac{1}{4} \times 1\frac{5}{8}$	CP06-FA3
.5	600	CP61B1EF504K	$1\frac{3}{4} \times 1\frac{1}{4} \times 2$	CP06-FA4
1.0	600	CP61B1EF105K	$1\frac{3}{4} \times 1\frac{1}{4} \times 2\frac{1}{2}$	CP06-FA5
.1 + .1	600	CP61B6EF104K	$1\frac{3}{4} \times 1\frac{1}{4} \times 1\frac{3}{8}$	CP06-FA3
.25 + .25	600	CP61B6EF254V	$1\frac{3}{4} \times 1\frac{1}{4} \times 2$	CP06-FA4
.5 + .5	600	CP61B6EF504V	$1\frac{3}{4} \times 1\frac{1}{4} \times 2\frac{1}{4}$	CP06-FA6
TYPE CP67 Terminals opposite channel bracket				
.1	600	CP67B1EF104K	$1\frac{3}{4} \times 4\frac{1}{4} \times 1\frac{1}{4}$	Integral Channel Brackets
.25	600	CP67B1EF254K	$1\frac{3}{4} \times 4\frac{1}{4} \times 1\frac{1}{2}$	
.5	600	CP67B1EF504K	$1\frac{3}{4} \times 4\frac{1}{4} \times 2$	Integral Channel Brackets
1.0	600	CP67B1EF105K	$1\frac{3}{4} \times 4\frac{1}{4} \times 2\frac{1}{4}$	
TYPE CP69 Terminals on same end as channel bracket				
.05	600	CP69B1EF503K	$1\frac{3}{4} \times 4\frac{1}{4} \times 1\frac{1}{4}$	Integral Channel Brackets
.1	600	CP69B1EF104K	$1\frac{3}{4} \times 4\frac{1}{4} \times 1\frac{1}{4}$	
.25	600	CP69B1EF254K	$1\frac{3}{4} \times 4\frac{1}{4} \times 1\frac{1}{2}$	Integral Channel Brackets
.5	600	CP69B1EF504K	$1\frac{3}{4} \times 4\frac{1}{4} \times 2$	
1.0	600	CP69B1EF105K	$1\frac{3}{4} \times 4\frac{1}{4} \times 2\frac{1}{4}$	

*Footed Brackets are listed; for spade type change F in Catalog No. to S

Call Your Sprague Industrial Distributor for Quantity Prices



TYPE CP70 CAPACITORS to MIL-C-25A

- Ruggedly Constructed for Exacting Heavy-Duty Applications
- Long Life and Reliable Service under High Ambient Temperatures
- Terminals have Ceramic Pillar Insulators (E) or Rubber Compression Seals (B)
- Impregnated with a Specially Processed Mineral Oil to Withstand Severe Operating Conditions
- Char. F Units Recommended Primarily for Ground Equipment Where no Low Temperatures are Encountered
- For Quantity Prices, See Your Sprague Industrial Distributor.

NOTE: These units have a capacitance tolerance of $\pm 10\%$. For $\pm 20\%$ tolerance, change the last letter in the catalog number from K to M.

μF	WVDC	Char. E (E Term.)		Char. F (B Term.)		Char. E (B Term.)	
		Cat. No.	W x T x H	Cat. No.	W x T x H	Cat. No.	W x T x H
.1	1000	CP70E1EG104K	$1\frac{1}{2} \times 1\frac{1}{4} \times 1\frac{1}{2}$				
.1	2000	CP70E1EJ104K	$2\frac{1}{2} \times 1\frac{3}{4} \times 2\frac{1}{2}$				
.25	1000	CP70E1EG254K	$1\frac{1}{2} \times 1\frac{1}{4} \times 2\frac{1}{4}$				
.25	2000	CP70E1EJ254K	$2\frac{1}{2} \times 1\frac{3}{4} \times 2\frac{1}{2}$				
.5	600	CP70E1EF504K	$1\frac{1}{2} \times 1\frac{1}{4} \times 2\frac{1}{4}$				
.5	1000	CP70E1EG504K	$1\frac{1}{2} \times 1\frac{1}{4} \times 2\frac{1}{4}$				
.5	1500	CP70E1EH504K	$1\frac{1}{2} \times 1\frac{1}{4} \times 2\frac{1}{4}$				
.5	2000	CP70E1EJ504K	$2\frac{1}{2} \times 1\frac{3}{4} \times 2\frac{1}{4}$				
.5	2500	CP70E1EK504K	$2\frac{1}{2} \times 1\frac{3}{4} \times 3\frac{3}{8}$				
1.0	600	CP70E1EF105K	$1\frac{1}{2} \times 1\frac{1}{4} \times 2\frac{1}{4}$				
1.0	1000	CP70E1EG105K	$1\frac{1}{2} \times 1\frac{1}{4} \times 2\frac{1}{4}$				
1.0	1500	CP70E1EH105K	$1\frac{1}{2} \times 1\frac{1}{4} \times 4\frac{3}{4}$				
1.0	2000	CP70E1EJ105K	$2\frac{1}{2} \times 1\frac{3}{4} \times 4\frac{3}{4}$				
1.0	2500	CP70E1EK105K	$3\frac{3}{4} \times 1\frac{3}{4} \times 3\frac{3}{4}$				
2.0	600	CP70E1EF205K	$1\frac{1}{2} \times 1\frac{1}{4} \times 3\frac{1}{4}$	CP70B1FF205K	$1\frac{1}{2} \times 1\frac{1}{4} \times 2\frac{3}{4}$	CP70B1EF205K	$1\frac{1}{2} \times 1\frac{1}{4} \times 3\frac{1}{4}$
2.0	1000	CP70E1EG205K	$1\frac{1}{2} \times 1\frac{1}{4} \times 4\frac{3}{4}$	CP70B1FG205K	$1\frac{1}{2} \times 1\frac{1}{4} \times 3\frac{3}{4}$	CP70B1EG205K	$1\frac{1}{2} \times 1\frac{1}{4} \times 4\frac{3}{4}$
2.0	1500	CP70E1EH205K	$2\frac{1}{2} \times 1\frac{3}{4} \times 4\frac{3}{4}$			CP70B1EH205K	$2\frac{1}{2} \times 1\frac{3}{4} \times 4\frac{3}{4}$
2.0	2000	CP70E1EJ205K	$3\frac{3}{4} \times 1\frac{1}{4} \times 4\frac{3}{4}$				
2.0	2500	CP70E1EK205K	$3\frac{3}{4} \times 2\frac{1}{4} \times 4\frac{3}{4}$				
4.0	600	CP70E1EF405K	$2\frac{1}{2} \times 1\frac{3}{4} \times 3\frac{3}{4}$	CP70B1FF405K	$2\frac{1}{2} \times 1\frac{3}{4} \times 3\frac{1}{2}$	CP70B1EF405K	$2\frac{1}{2} \times 1\frac{3}{4} \times 3\frac{3}{4}$
4.0	1000	CP70E1EG405K	$3\frac{3}{4} \times 1\frac{1}{4} \times 3\frac{3}{4}$	CP70B1FG405K	$2\frac{1}{2} \times 1\frac{3}{4} \times 4\frac{3}{4}$	CP70B1EG405K	$3\frac{3}{4} \times 1\frac{1}{4} \times 3\frac{3}{4}$
4.0	1500	CP70E1EH405K	$3\frac{3}{4} \times 1\frac{3}{4} \times 4\frac{1}{4}$			CP70B1EH405K	$3\frac{3}{4} \times 1\frac{3}{4} \times 4\frac{1}{4}$
4.0	2000	CP70E1EJ405K	$3\frac{3}{4} \times 2\frac{1}{4} \times 5\frac{1}{8}$				
4.0	2500	CP70E1EK405K	$4\frac{1}{4} \times 3\frac{3}{4} \times 4\frac{3}{4}$				
6.0	600	CP70E1EF605K	$3\frac{3}{4} \times 1\frac{1}{4} \times 3\frac{3}{8}$	CP70B1FF605K	$2\frac{1}{2} \times 1\frac{3}{4} \times 4\frac{3}{4}$	CP70B1EF605K	$3\frac{3}{4} \times 1\frac{1}{4} \times 3\frac{3}{4}$
6.0	1000	CP70E1EG605K	$3\frac{3}{4} \times 1\frac{1}{4} \times 4$	CP70B1FG605K	$3\frac{3}{4} \times 1\frac{1}{4} \times 4\frac{3}{4}$	CP70B1EG605K	$3\frac{3}{4} \times 1\frac{3}{4} \times 4$
6.0	1500	CP70E1EH605K	$3\frac{3}{4} \times 2\frac{1}{4} \times 4\frac{3}{4}$			CP70B1EH605K	$3\frac{3}{4} \times 2\frac{1}{4} \times 4\frac{3}{4}$
6.0	600	CP70E1EF805K	$3\frac{3}{4} \times 1\frac{1}{4} \times 4\frac{1}{4}$	CP70B1FF805K	$3\frac{3}{4} \times 1\frac{1}{4} \times 3\frac{3}{4}$	CP70B1EF805K	$3\frac{3}{4} \times 1\frac{1}{4} \times 4\frac{1}{4}$
8.0	1000	CP70E1EG805K	$3\frac{3}{4} \times 1\frac{3}{4} \times 4\frac{3}{4}$	CP70B1FG805K	$3\frac{3}{4} \times 1\frac{3}{4} \times 3\frac{3}{4}$	CP70B1EG805K	$3\frac{3}{4} \times 1\frac{3}{4} \times 4\frac{3}{4}$
8.0	1500	CP70E1EH805K	$3\frac{3}{4} \times 2\frac{1}{2} \times 5\frac{1}{4}$			CP70B1EH805K	$3\frac{3}{4} \times 2\frac{1}{2} \times 5\frac{1}{4}$
10.0	600	CP70E1EF106K	$3\frac{3}{4} \times 1\frac{3}{4} \times 4$	CP70B1FF106K	$3\frac{3}{4} \times 1\frac{1}{4} \times 4\frac{3}{4}$	CP70B1EF106K	$3\frac{3}{4} \times 1\frac{3}{4} \times 4$
10.0	1000	CP70E1EG106K	$3\frac{3}{4} \times 2\frac{1}{4} \times 4\frac{3}{4}$	CP70B1FG106K	$3\frac{3}{4} \times 1\frac{3}{4} \times 4\frac{3}{4}$	CP70B1EG106K	$3\frac{3}{4} \times 2\frac{1}{4} \times 4\frac{3}{4}$
10.0	1500	CP70E1EH106K	$3\frac{3}{4} \times 3\frac{1}{4} \times 5\frac{1}{2}$			CP70B1EH106K	$3\frac{3}{4} \times 3\frac{1}{4} \times 5\frac{1}{2}$
12.0	1000	CP70E1EG126K	$3\frac{3}{4} \times 2\frac{1}{4} \times 5\frac{1}{8}$			CP70B1EG126K	$3\frac{3}{4} \times 2\frac{1}{4} \times 5\frac{1}{8}$
15.0	1000	CP70E1EG156K	$3\frac{3}{4} \times 3\frac{1}{4} \times 4\frac{3}{4}$				

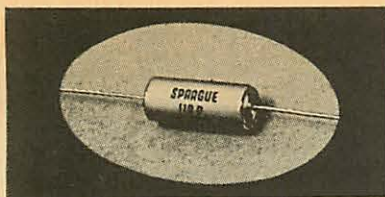
Call Your Sprague Industrial Distributor for Quantity Prices

Call Your Sprague Industrial Distributor for Quantity Prices

Call Your Sprague Industrial Distributor for Quantity Prices

SPRAGUE CAPACITORS

118P DIFILM® METALLIZED CAPACITORS



Metallized Paper and of Polyester Film, Impregnated With Special High-Temperature Mineral Wax

- The Best of Their Type Possible to Produce at the Present State of the Art
- Rated for Operation at 125°C WITHOUT VOLT-AGE DERATING
- Unique Dual Dielectric —a Combination of Metallized Paper and of Polyester Film, Impregnated With Special High-Temperature Mineral Wax
- Subjected to Stringent Quality Control During Manufacture
- Higher Insulation Resistance Than Any Other Metallized Paper Capacitors—at 125°C, Minimum Product of Insulation Resistance and Capacitance is 10 Megohm-microfarads for 200 V Units or 40 Megohm-microfarads for 400 and 600 V Units
- Capacitor Sections are Effectively of Non-inductive Construction, Resulting in Capacitors Unmatched in Performance Quality by any Other Metallized Capacitors
- Hermetically Sealed, with Glass-to-metal Solder-seal Terminals
- Have Unusual Self-healing Characteristics, in the Rare Event of Capacitor Dielectric Breakdown
- May be Used at Extremely Low Voltages Where Metallized Paper Construction has Previously Been Unsatisfactory
- For Complete Performance Characteristics, see Latest Issue of Engineering Bulletin 2211
- For Units With Outer Plastic Insulating Sleeves, Change Last Digit of Cat. No. From "2" to "4"
- Capacitors Listed Below Are Ungrounded Case (Insulating Section) Units Without Outer Insulating Sleeves. For Information on Other Styles Consult Your Sprague Industrial Distributor
- Call your Sprague Industrial Distributor for Quantity Prices.

μF	D. x L.	±20% Tol.		±10% Tol.	
		Catalog Number	Catalog Number	Catalog Number	Catalog Number
200 WVDC					
.01	.175 x 1/16	118P10302S2	118P10392S2	118P10392S2	
.012	.195 x 1/16		118P12392S2	118P12392S2	
.015	.195 x 1/16	118P15302S2	118P15392S2	118P15392S2	
.018	.235 x 1/16		118P18392S2	118P18392S2	
.022	.235 x 1/16	118P22302S2	118P22392S2	118P22392S2	
.027	.235 x 1/16		118P27392S2	118P27392S2	
.033	.235 x 1/16	118P33302S2	118P33392S2	118P33392S2	
.039	.312 x 3/16		118P39392S2	118P39392S2	
.047	.312 x 3/16	118P47302S2	118P47392S2	118P47392S2	
.056	.312 x 3/16		118P56392S2	118P56392S2	
.068	.312 x 3/16	118P68302S2	118P68392S2	118P68392S2	
.082	.312 x 3/16		118P82392S2	118P82392S2	
.1	.312 x 3/16	118P10402S2	118P10492S2	118P10492S2	
.12	.312 x 1/8		118P12492S2	118P12492S2	
.15	.312 x 1/8	118P15402S2	118P15492S2	118P15492S2	
.18	.400 x 3/16		118P18492S2	118P18492S2	
.22	.400 x 3/16	118P22402S2	118P22492S2	118P22492S2	
.27	.400 x 1/8		118P27492S2	118P27492S2	
.33	.400 x 1/8	118P33402S2	118P33492S2	118P33492S2	
.39	.500 x 1/8		118P39492S2	118P39492S2	
.47	.500 x 1/8	118P47402S2	118P47492S2	118P47492S2	
.56	.500 x 1/8		118P56492S2	118P56492S2	
.68	.500 x 1/8	118P68402S2	118P68492S2	118P68492S2	
.82	.562 x 1/8		118P82492S2	118P82492S2	
1.0	.562 x 1/8	118P10502S2	118P10592S2	118P10592S2	
1.5	.562 x 1/8	118P15502S2	118P15592S2	118P15592S2	
2.0	.670 x 1/8	118P20502S2	118P20592S2	118P20592S2	
3.0	.670 x 1 1/16	118P30502S2	118P30592S2	118P30592S2	
4.0	.750 x 1 1/16	118P40502S2	118P40592S2	118P40592S2	
5.0	1.000 x 1 1/16	118P50502S2	118P50592S2	118P50592S2	
6.0	1.000 x 1 1/16	118P60502S2	118P60592S2	118P60592S2	
8.0	1.000 x 1 1/8	118P80502S2	118P80592S2	118P80592S2	
10.0	1.000 x 2 1/16	118P10602S2	118P10692S2	118P10692S2	
12.0	1.000 x 2 1/8	118P12602S2	118P12692S2	118P12692S2	

CALL YOUR SPRAGUE INDUSTRIAL DISTRIBUTOR FOR QUANTITY PRICES

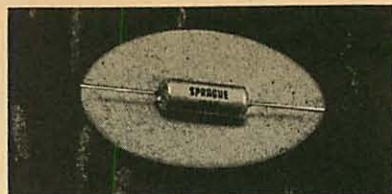
μF	D. x L.	±20% Tol.		±10% Tol.	
		Catalog Number	Catalog Number	Catalog Number	Catalog Number
400 WVDC					
.01	.312 x 3/16	118P10304S2	118P10394S2	118P10394S2	
.015	.312 x 3/16	118P15304S2	118P15394S2	118P15394S2	
.022	.312 x 3/16	118P22304S2	118P22394S2	118P22394S2	
.033	.312 x 1/8	118P33304S2	118P33394S2	118P33394S2	
.047	.400 x 1/8	118P47304S2	118P47394S2	118P47394S2	
.068	.400 x 1/8	118P68304S2	118P68394S2	118P68394S2	
.1	.500 x 1/8	118P10404S2	118P10494S2	118P10494S2	
.15	.500 x 1/8	118P15404S2	118P15494S2	118P15494S2	
.22	.562 x 1/8	118P22404S2	118P22494S2	118P22494S2	
.33	.562 x 1/8	118P33404S2	118P33494S2	118P33494S2	
.47	.670 x 1/8	118P47404S2	118P47494S2	118P47494S2	
.68	.670 x 1 1/16	118P68404S2	118P68494S2	118P68494S2	
1.0	.750 x 1 1/16	118P10504S2	118P10594S2	118P10594S2	
1.5	1.000 x 1 1/16	118P15504S2	118P15594S2	118P15594S2	
2.0	1.000 x 1 1/8	118P20504S2	118P20594S2	118P20594S2	
3.0	1.000 x 2 1/8	118P30504S2	118P30594S2	118P30594S2	
600 WVDC					
.01	.312 x 3/16	118P10306S2	118P10396S2	118P10396S2	
.015	.312 x 3/16	118P15306S2	118P15396S2	118P15396S2	
.022	.312 x 1/8	118P22306S2	118P22396S2	118P22396S2	
.033	.312 x 1/8	118P33306S2	118P33396S2	118P33396S2	
.047	.400 x 1/8	118P47306S2	118P47396S2	118P47396S2	
.068	.400 x 1/8	118P68306S2	118P68396S2	118P68396S2	
.1	.500 x 1/8	118P10406S2	118P10496S2	118P10496S2	
.15	.562 x 1/8	118P15406S2	118P15496S2	118P15496S2	
.22	.562 x 1/8	118P22406S2	118P22496S2	118P22496S2	
.33	.562 x 1/8	118P33406S2	118P33496S2	118P33496S2	
.47	.670 x 1/8	118P47406S2	118P47496S2	118P47496S2	
.68	.670 x 1 1/16	118P68406S2	118P68496S2	118P68496S2	
1.0	1.000 x 1 1/16	118P10506S2	118P10596S2	118P10596S2	
1.5	1.000 x 1 1/8	118P15506S2	118P15596S2	118P15596S2	
2.0	1.000 x 2 1/16	118P20506S2	118P20596S2	118P20596S2	
2.5	1.000 x 2 1/8	118P25506S2	118P25596S2	118P25596S2	

CALL YOUR SPRAGUE INDUSTRIAL DISTRIBUTOR FOR QUANTITY PRICES

SPRAGUE CAPACITORS

121P METALLIZED PAPER CAPACITORS

- Designed to Operate at 125C WITHOUT VOLTAGE DERATING—Extremely Important in Military and Industrial Equipment Where Higher Temperatures Are Encountered.
- Quality of These Capacitors Is Surpassed only by Type 118P Units Described on Opposite Page.
- High Insulation Resistance—at 85C, Minimum Product of Insulation Resistance and Capacitance Is 20 Megohm-Microfarads. At 125C, Minimum Product is 1.0 Megohm-Microfarads.
- Hermetically Sealed With Glass-to-Metal Solder-Seal Terminals—Capacitor Cases Are of Corrosion Resistant Materials—Similar in Appearance to Type 118P.
- May Be Operated at Low Voltages, Unlike Many Other Metallized Capacitors.
- For Complete Technical Data, See Latest Issue of Engineering Bulletin 2210.
- Capacitors Listed Below Are Ungrounded Case (Insulated Section) Units Without Outer Insulating

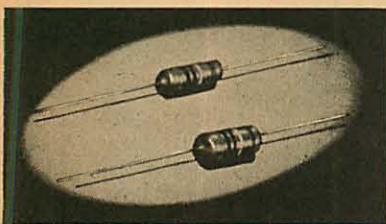


Sleeves. For Information on Other Styles Consult Your Sprague Industrial Distributor.

- Call Your Sprague Industrial Distributor For Quantity Prices.
- For Units With Outer Plastic Insulating Sleeve, Change Last Digit in Cat. No. From 2 to 4.

μF	D. x L.	±20% Tol.		±10% Tol.		μF	D. x L.	±20% Tol.		±10% Tol.	
		Cat. No.	Cat. No.	Cat. No.	Cat. No.			Cat. No.	Cat. No.		
150 WVDC						150 WVDC (cont.)					
1.5	.562 x 1 1/8	121P15501R5S2	121P15591R5S2	6.0	.750 x 1 7/8	121P60501R5S2	121P60591R5S2	2.0	.562 x 1 3/8	121P20501R5S2	121P20591R5S2
2.0	.562 x 1 3/8	121P25501R5S2	121P25591R5S2	8.0	.750 x 2 3/8	121P80501R5S2	121P80591R5S2	2.5	.562 x 1 5/8	121P25501R5S2	121P25591R5S2
3.0	.670 x 1 3/8	121P30501R5S2	121P30591R5S2	10	.750 x 2 5/8	121P10601R5S2	121P10691R5S2	3.0	.670 x 1 5/8	121P30501R5S2	121P30591R5S2
3.5	.670 x 1 5/8	121P35501R5S2	121P35591R5S2	12	1.000 x 1 7/8	121P12601R5S2	121P12691R5S2	4.0	.670 x 1 7/8	121P40501R5S2	121P40591R5S2
4.0	.670 x 1 7/8	121P40501R5S2	121P40591R5S2	14	1.000 x 2 1/8	121P14601R5S2	121P14691R5S2	5.0	.670 x 1 7/8	121P50501R5S2	121P50591R5S2
5.0	.670 x 1 7/8	121P50501R5S2	121P50591R5S2	16	1.000 x 2 3/8	121P16601R5S2	121P16691R5S2				
				18	1.000 x 2 5/8	121P18601R5S2	121P18691R5S2				

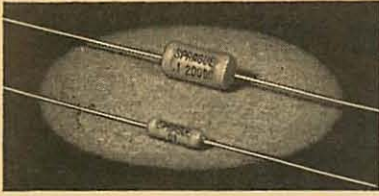
TYPE 65P PROKAR® MOLDED TUBULARS



- For Applications Requiring Small Paper Capacitors for Continuous Operation at High Temperatures
- No Voltage Derating Required for 125C Operation
- Impregnated with an Exclusive Sprague Organic Material which Polymerizes to Form a Solid Capacitor Section
- Sections Molded in Mineral-Filled High-Temperature Plastic—All cases are 1 1/16" long
- Capacitance Tolerance of these Capacitors is ±5%
- For complete technical data, refer to latest issue of Engineering Bulletin 2100.
- Call Your Sprague Industrial Distributor for Quantity Prices.

μF	WVDC	Diam.	Cat. No.	Call Your Sprague Industrial Distributor for Quantity Prices	μF	WVDC	Diam.	Cat. No.	Call Your Sprague Industrial Distributor for Quantity Prices
.01	200	.175	65P10352		.091	200	.375	65P91352	
.015	200	.195	65P15352	.1	200	.375	65P10452		
.02	200	.250	65P20352	.001	300	.175	65P10253		
.022	200	.250	65P22352	.0015	300	.175	65P15253		
.03	200	.250	65P30352	.002	300	.175	65P20253		
.033	200	.250	65P33352	.0039	300	.175	65P39253		
.039	200	.375	65P39352	.0047	300	.175	65P47253		
.047	200	.375	65P47352	.0051	300	.175	65P51253		
.051	200	.375	65P51352	.0056	300	.175	65P56253		
.056	200	.375	65P56352	.0068	300	.175	65P68253		
.062	200	.375	65P62352	.0082	300	.195	65P82253		
.082	200	.375	65P82352	.0091	300	.195	65P91253		

SPRAGUE CAPACITORS



TYPE 192P PACER[®] FILMITE[®] 'E' CAPACITORS

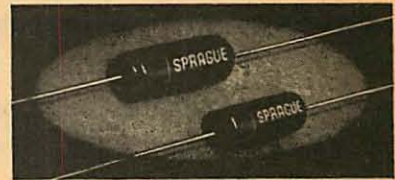
- Completely New Construction for Minimum Size. Extended Foil Film Sections Terminate in End Caps. Best Possible Non-Inductive Section. Rated for -55C to +85C.
- Controlled Dimensions—May Be Used With Automatic Insertion Equipment.
- Wound With Polyester Film Dielectric and Thin Gage Foil Under Controlled Atmospheric Conditions. Protected by Hard Durable Orange Epoxy Coating ● Also Available in Kleeer-Pak[®] Boxes.

● For Quantity Prices Call Your Sprague Industrial Distributor ● Rated at 200 VDC ● See Latest Issue of Sprague Engineering Bulletin 2066.

μ F	D. x L.	Cat. No.	Net. (1-24)	μ F	D. x L.	Cat. No.	Net. (1-24)	μ F	D. x L.	Cat. No.	Net. (1-24)	μ F	D. x L.	Cat. No.	Net. (1-24)
.00047	.138 $\frac{5}{16}$	192P47192	\$.33	.0022	.170 $\frac{5}{16}$	192P22292	\$.27	.01	.170 $\frac{1}{2}$	192P10392	\$.30	.047	.290 $\frac{1}{2}$	192P47392	\$.39
.00056	.138 $\frac{5}{16}$	192P56192	.30	.0027	.170 $\frac{5}{16}$	192P27292	.27	.012	.204 $\frac{7}{16}$	192P12392	.30	.056	.290 $\frac{5}{8}$	192P56392	.39
.00068	.138 $\frac{5}{16}$	192P68192	.30	.0033	.170 $\frac{5}{16}$	192P33292	.27	.015	.204 $\frac{7}{16}$	192P15392	.30	.068	.290 $\frac{5}{8}$	192P68392	.42
.00082	.138 $\frac{5}{16}$	192P82192	.30	.0039	.170 $\frac{7}{16}$	192P39292	.27	.018	.204 $\frac{7}{16}$	192P18392	.30	.082	.318 $\frac{5}{8}$	192P82392	.45
.001	.138 $\frac{5}{16}$	192P10292	.27	.0047	.170 $\frac{7}{16}$	192P47292	.27	.022	.204 $\frac{7}{16}$	192P22392	.30	.1	.318 $\frac{5}{8}$	192P10492	.45
.0012	.138 $\frac{5}{16}$	192P12292	.27	.0056	.170 $\frac{7}{16}$	192P56292	.27	.027	.225 $\frac{7}{16}$	192P27392	.33	.12	.318 $\frac{7}{8}$	192P12492	.48
.0015	.138 $\frac{5}{16}$	192P15292	.27	.0068	.170 $\frac{7}{16}$	192P68292	.27	.033	.225 $\frac{7}{16}$	192P33392	.33	.15	.318 $\frac{7}{8}$	192P15492	.48
.0018	.170 $\frac{5}{16}$	192P18292	.27	.0082	.170 $\frac{1}{2}$	192P82292	.30	.039	.290 $\frac{1}{2}$	192P39392	.36	.22	.318 $1\frac{1}{8}$	192P22492	.51

TYPE 155P & 156P MOLDED METALLIZED PAPER CAPACITORS

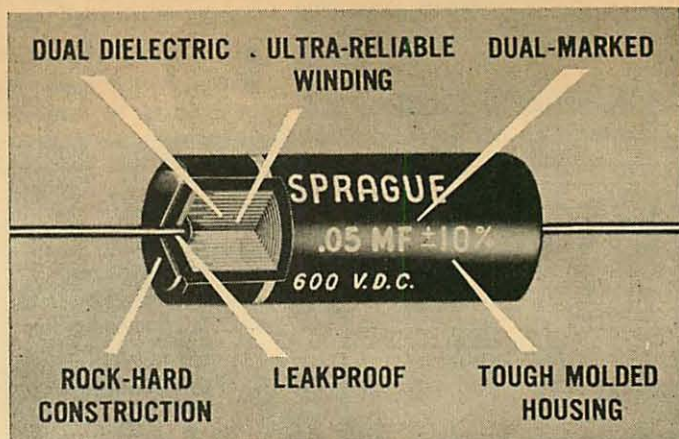
- Superior to Most Competitive Units—Withstand Twice Rated Voltage Tests Giving Extra Design Safety Factor. Stand up Under High Humidity Condition.
- Self-generated Noise Practically Non-Existent. ● Sealed With Epoxy.
- Type 155P—Molded in Case. Type 156P in Premolded Case. Available in Kleeer-Pak[®] Boxes. Complete Technical Data in Latest Issue of Sprague Bulletin 2030.
- For Current Quantity Prices Call Your Sprague Industrial Distributor.



μ F	D. x L.	Ordering Information	Net. Ea. (1-24)	μ F	D. x L.	Ordering Information	Net. Ea. (1-24)	μ F	D. x L.	Ordering Information	Net. Ea. (1-24)
200 VOLTS D-C				200 VOLTS D-C (Cont.)				400 VOLTS D-C (Cont.)			
.01	$\frac{5}{16}$	1 155P10302	\$.42	7.0	$\frac{7}{8}$ 2 $\frac{1}{2}$	156P70502	\$3.33	1.0	$\frac{3}{4}$ 2 $\frac{1}{4}$	156P10504	\$1.29
.015	$\frac{5}{16}$	1 155P15302	.42	7.5	$\frac{7}{8}$ 2 $\frac{1}{2}$	156P75502	3.15	1.5	$\frac{7}{8}$ 2 $\frac{1}{2}$	156P15504	1.59
.02	$\frac{5}{16}$	1 155P-.02-200	.42	8.0	1 2 $\frac{1}{2}$	156P80502	3.75	2.0	$\frac{7}{8}$ 2 $\frac{1}{2}$	156P20504	1.80
.022	$\frac{5}{16}$	1 155P22302	.42	8.5	1 2 $\frac{1}{2}$	156P85502	3.90	2.5	1 2 $\frac{1}{2}$	156P25504	2.25
.03	$\frac{5}{16}$	1 155P-.03-200	.45	9.0	1 2 $\frac{1}{2}$	156P90502	4.05	600 VOLTS D-C			
.031	$\frac{5}{16}$	1 155P33302	.45	9.5	1 2 $\frac{1}{2}$	156P95502	4.20	.01	$\frac{5}{16}$ 1	155P10306	.45
.047	$\frac{5}{16}$	1 155P47302	.45	400 VOLTS D-C				.015	$\frac{3}{8}$ 1 $\frac{1}{4}$	155P15306	.45
.05	$\frac{5}{16}$	1 155P-.05-200	.45	.01	$\frac{5}{16}$ 1	155P10304	.42	.02	$\frac{3}{8}$ 1 $\frac{1}{4}$	155P-.02-600	.45
.068	$\frac{5}{16}$ 1	155P68302	.45	.015	$\frac{5}{16}$ 1	155P15304	.42	.022	$\frac{3}{8}$ 1 $\frac{1}{4}$	155P22306	.45
.1	$\frac{5}{16}$ 1	155P10402	.45	.02	$\frac{5}{16}$ 1	155P-.02-400	.42	.03	$\frac{3}{8}$ 1 $\frac{1}{4}$	155P-.03-600	.48
.15	$\frac{3}{8}$ 1 $\frac{1}{4}$	155P15402	.45	.022	$\frac{5}{16}$ 1	155P22304	.42	.033	$\frac{3}{8}$ 1 $\frac{1}{4}$	155P33306	.48
.22	$\frac{3}{8}$ 1 $\frac{1}{4}$	155P22402	.45	.025	$\frac{3}{8}$ 1 $\frac{1}{4}$	155P-.025-400	.42	.04	$\frac{3}{8}$ 1 $\frac{1}{4}$	155P-.04-600	.51
.25	$\frac{7}{16}$ 1 $\frac{1}{4}$	155P-.25-200	.66	.03	$\frac{3}{8}$ 1 $\frac{1}{4}$	155P-.03-400	.42	.047	$\frac{3}{8}$ 1 $\frac{1}{4}$	155P47306	.51
.33	$\frac{7}{16}$ 1 $\frac{1}{4}$	155P33402	.66	.033	$\frac{3}{8}$ 1 $\frac{1}{4}$	155P33304	.42	.05	$\frac{7}{16}$ 1 $\frac{1}{4}$	155P-.05-600	.51
.47	$\frac{7}{16}$ 1 $\frac{1}{4}$	155P47402	.66	.04	$\frac{3}{8}$ 1 $\frac{1}{4}$	155P-.04-400	.42	.06	$\frac{7}{16}$ 1 $\frac{1}{4}$	155P-.06-600	.51
.5	$\frac{1}{2}$ 1 $\frac{1}{2}$	155P-.5-200	.78	.047	$\frac{3}{8}$ 1 $\frac{1}{4}$	155P47304	.42	.068	$\frac{7}{16}$ 1 $\frac{1}{4}$	155P68306	.51
.68	$\frac{1}{2}$ 1 $\frac{1}{2}$	155P68402	.78	.05	$\frac{3}{8}$ 1 $\frac{1}{4}$	155P-.05-400	.45	.1	$\frac{1}{2}$ 1 $\frac{1}{2}$	155P10406	.57
1.0	$\frac{1}{2}$ 1 $\frac{1}{2}$	155P10502	1.05	.068	$\frac{3}{8}$ 1 $\frac{1}{4}$	155P68304	.45	.15	$\frac{1}{2}$ 1 $\frac{1}{2}$	155P15406	.72
1.5	$\frac{5}{8}$ 1 $\frac{3}{8}$	155P15502	1.20	.1	$\frac{7}{16}$ 1 $\frac{1}{4}$	155P10404	.51	.2	$\frac{5}{8}$ 1 $\frac{3}{8}$	155P-.2-600	.90
2.0	$\frac{5}{8}$ 1 $\frac{3}{8}$	155P20502	1.41	.15	$\frac{1}{2}$ 1 $\frac{1}{2}$	155P15404	.66	.22	$\frac{5}{8}$ 1 $\frac{3}{8}$	155P22406	.90
2.5	$\frac{3}{4}$ 2 $\frac{1}{4}$	156P25502	1.65	.2	$\frac{1}{2}$ 1 $\frac{1}{2}$	155P-.2-400	.69	.25	$\frac{5}{8}$ 1 $\frac{3}{8}$	155P-.25-600	.90
3.0	$\frac{3}{4}$ 2 $\frac{1}{4}$	156P30502	1.80	.22	$\frac{1}{2}$ 1 $\frac{1}{2}$	155P22404	.69	.33	$\frac{5}{8}$ 1 $\frac{3}{8}$	155P33406	.93
3.5	$\frac{3}{4}$ 2 $\frac{1}{4}$	156P35502	2.10	.25	$\frac{5}{8}$ 1 $\frac{3}{8}$	155P-.25-400	.72	.47	$\frac{3}{4}$ 2 $\frac{1}{4}$	156P47406	1.14
4.0	$\frac{3}{4}$ 2 $\frac{1}{4}$	156P40502	2.22	.33	$\frac{5}{8}$ 1 $\frac{3}{8}$	155P33404	.72	.5	$\frac{3}{4}$ 2 $\frac{1}{4}$	156P-.5-600	1.14
4.5	$\frac{7}{8}$ 2 $\frac{1}{2}$	156P45502	2.40	.47	$\frac{5}{8}$ 1 $\frac{3}{8}$	155P47404	.90	.68	$\frac{3}{4}$ 2 $\frac{1}{4}$	156P68406	1.14
5.0	$\frac{7}{8}$ 2 $\frac{1}{2}$	156P50502	2.55	.5	$\frac{5}{8}$ 1 $\frac{3}{8}$	155P-.5-400	.93	1.0	$\frac{7}{8}$ 2 $\frac{1}{2}$	156P10506	1.38
5.5	$\frac{7}{8}$ 2 $\frac{1}{2}$	156P55502	2.70	.68	$\frac{3}{4}$ 2 $\frac{1}{4}$	156P68404	1.05	1.5	1 2 $\frac{1}{2}$	156P15506	1.89

SPRAGUE CAPACITORS

DIFILM[®] BLACK BEAUTY[®] MOLDED TUBULARS



- Developed Especially for Long Life Under High Humidity and Temperature Operating Conditions
- Dual Dielectric (film and paper) Combines Best Features of Both Polyester Film and Paper Capacitors
- Exclusive HCX[®] Solid Impregnant Construction Results in Rock-hard Capacitor Section
- Won't Leak or Drip

LOOK FOR THE RED MARKINGS
ON THE BLACK CASE

- No Derating for 105°C Operation
- Mica-filled, Non-flammable Molded Case. Won't Crack when Dropped; Soldering won't Harm it
- Every Capacitor Marked Twice. No Twisting the Case to Read Ratings
- Also Available in Handy Sprague Klee-Pak[®]
- **Capacitance Tolerance: ±10%** from .001 μF up
Except 2TM-M1 ±20%

For Complete Technical Data, See Latest Sprague Engineering Bulletin 2025

The World's Best Molded Tubular at No Extra Cost!

μF	D. x L.	Sprague Products Cat. No.	Sprague O.E.M. Part No.	Net	μF	D. x L.	Sprague Products Cat. No.	Sprague O.E.M. Part No.	Net	μF	D. x L.	Sprague Products Cat. No.	Sprague O.E.M. Part No.	Net
200 WVDC					400 WVDC (Cont.)					600 WVDC (Cont.)				
.01	3/8 x 1	2TM-S10	160P10392	\$.15	.04	7/16 x 1 1/4	4TM-S40	.....	\$.18	.0022	3/16 x 1	6TM-D22	160P22296	\$.15
.02	3/8 x 1 1/4	2TM-S20	.....	.15	.047	7/16 x 1 1/4	4TM-S47	160P47394	.18	.0025	3/16 x 1	6TM-D25	.....	.15
.022	3/8 x 1 1/4	2TM-S22	160P22392	.15	.05	7/16 x 1 1/4	4TM-S50	.....	.18	.003	3/16 x 1	6TM-D30	.....	.15
.047	7/16 x 1 1/4	2TM-S47	160P47392	.15	.068	1/2 x 1 1/2	4TM-S68	160P68394	.21	.0033	3/16 x 1	6TM-D33	160P33296	.15
.05	7/16 x 1 1/4	2TM-S50	.....	.15	.1	1/2 x 1 1/2	4TM-P10	160P10494	.21	.004	3/8 x 1 1/4	6TM-D40	.....	.15
.1	1/2 x 1 1/2	2TM-P10	160P10492	.21	.15	3/8 x 1 3/8	4TM-P15	160P15494	.24	.0047	3/8 x 1 1/4	6TM-D47	160P47296	.15
.15	1/2 x 1 1/2	2TM-P15	160P15492	.21	.2	3/8 x 1 3/8	4TM-P20	.....	.27	.005	3/8 x 1 1/4	6TM-D50	.....	.15
.22	5/8 x 1 3/8	2TM-P22	160P22492	.24	.22	5/8 x 1 3/8	4TM-P22	160P22494	.27	.006	3/8 x 1 1/4	6TM-D60	.....	.15
.25	5/8 x 1 3/8	2TM-P25	.....	.24	.25	3/4 x 2 1/4	4TM-P25	.....	.30	.0068	3/8 x 1 1/4	6TM-D68	160P68296	.18
.47	3/4 x 2 1/4	2TM-P47	160P47492	.36	.47	3/4 x 2 1/4	4TM-P47	160P47494	.45	.008	3/8 x 1 1/4	6TM-D80	.....	.18
.5	3/4 x 2 1/4	2TM-P50	.....	.36	.5	3/4 x 2 1/4	4TM-P50	.....	.45	.01	3/8 x 1 1/4	6TM-S10	160P10396	.18
1.0	3/4 x 2 1/4	2TM-M1	160P10502	.63	1.0	1 x 2 1/2	4TM-M1	160P10594	.75	.015	3/8 x 1 1/4	6TM-S15	160P15396	.18
400 WVDC					600 WVDC									
.001	3/16 x 1	4TM-D10	160P10294	.15	.0001	3/16 x 1	6TM-T10	.....	.15	.022	7/16 x 1 1/4	6TM-S22	160P22396	.18
.005	3/16 x 1	4TM-D50	.....	.15	.00025	3/16 x 1	6TM-T25	.....	.15	.025	7/16 x 1 1/4	6TM-S25	.....	.18
.01	3/8 x 1 1/4	4TM-S10	160P10394	.15	.0004	3/16 x 1	6TM-T40	.....	.15	.03	7/16 x 1 1/4	6TM-S30	.....	.21
.015	3/8 x 1 1/4	4TM-S15	160P15394	.15	.0005	3/16 x 1	6TM-T50	.....	.15	.033	7/16 x 1 1/4	6TM-S33	160P33396	.21
.02	3/8 x 1 1/4	4TM-S20	.....	.15	.001	3/16 x 1	6TM-D10	160P10296	.15	.035	7/16 x 1 1/4	6TM-S35	.....	.21
.022	3/8 x 1 1/4	4TM-S22	160P22394	.18	.0015	3/16 x 1	6TM-D15	160P15296	.15	.04	1/2 x 1 1/2	6TM-S40	.....	.21
.025	7/16 x 1 1/4	4TM-S25	.....	.18	.002	3/16 x 1	6TM-D20	.....	.15	.047	1/2 x 1 1/2	6TM-S47	160P47396	.24
.03	7/16 x 1 1/4	4TM-S30	.....	.18										

SPRAGUE CAPACITORS

DIFILM® BLACK BEAUTY® MOLDED TUBULARS, continued

600 WVDC (Cont.)					1000 WVDC					1000 WVDC (cont.)				
µF	D. x L.	Sprague Products Cat. No.	Sprague O.E.M. Part No.	Net	µF	D. x L.	Sprague Products Cat. No.	Sprague O.E.M. Part No.	Net	µF	D. x L.	Sprague Products Cat. No.	Sprague O.E.M. Part No.	Net
.05	1/2 x 1 1/2	6TM-S50		\$.24	.0005	5/16 x 1	10TM-T50		\$.30	.01	7/16 x 1 1/4	10TM-S10	160P103910	\$.30
.06	1/2 x 1 1/2	6TM-S60		.24	.001	5/16 x 1	10TM-D10	160P102910	.30	.015	1/2 x 1 1/2	10TM-S15	160P153910	.30
.068	1/2 x 1 1/2	6TM-S68	160P68396	.27	.0015	5/16 x 1	10TM-D15	160P152910	.30	.02	1/2 x 1 1/2	10TM-S20		.30
.1	3/8 x 1 7/8	6TM-P10	160P10496	.27	.002	5/16 x 1 1/4	10TM-D20		.30	.022	1/2 x 1 1/2	10TM-S22	160P223910	.30
.15	3/8 x 1 7/8	6TM-P15	160P15496	.30	.0022	3/8 x 1 1/4	10TM-D22	160P222910	.30	.03	5/8 x 1 7/8	10TM-S30		.30
.2	3/4 x 2 1/4	6TM-P20		.39	.003	3/8 x 1 1/4	10TM-D30		.30	.035	5/8 x 1 7/8	10TM-S35		.30
.22	3/4 x 2 1/4	6TM-P22	160P22496	.42	.004	3/8 x 1 1/4	10TM-D40		.30	.047	5/8 x 1 7/8	10TM-S47	160P473910	.36
.25	3/4 x 2 1/4	6TM-P25		.45	.0047	3/8 x 1 1/4	10TM-D47	160P472910	.30	.05	5/8 x 1 7/8	10TM-S50		.36
.47	1 x 2 1/2	6TM-P47	160P47496	.75	.005	3/8 x 1 1/4	10TM-D50		.30	.068	5/8 x 1 7/8	10TM-S68	160P683910	.42
.5	1 x 2 1/2	6TM-P50		.75	.0068	3/8 x 1 1/4	10TM-D68	160P682910	.30	.1	3/4 x 2 1/4	10TM-P10	160P104910	.45
1.0	1 x 2 1/2	6TM-M1		1.05						.15	3/4 x 2 1/4	10TM-P15	160P154910	.57

1600 WVDC BUFFER CAPACITORS

1600 WVDC BUFFER CAPACITORS														
µF	D. x L.	Sprague Products Cat. No.	Sprague O.E.M. Part No.	Net	µF	D. x L.	Sprague Products Cat. No.	Sprague O.E.M. Part No.	Net	µF	D. x L.	Sprague Products Cat. No.	Sprague O.E.M. Part No.	Net
.0005	3/8 x 1 1/4	MB-75		\$.39	.004	1/2 x 1 1/2	MB-D4		\$.39	.01	5/8 x 1 7/8	MB-S1	190P103916	\$.42
.001	3/8 x 1 1/4	MB-D1	190P102916	.39	.0047	1/2 x 1 1/2	MB-D47	190P472916	.39	.015	5/8 x 1 7/8	MB-S15	190P153916	.42
.0015	3/8 x 1 1/4	MB-D15	190P152916	.39	.005	1/2 x 1 1/2	MB-D5		.39	.02	5/8 x 1 7/8	MB-S2		.42
.002	3/8 x 1 1/4	MB-D2		.39	.006	1/2 x 1 1/2	MB-D6		.39	.022	5/8 x 1 7/8	MB-S22	190P223916	.42
.0022	3/8 x 1 1/4	MB-D22	190P222916	.39	.0068	1/2 x 1 1/2	MB-D68	190P682916	.39	.03	3/4 x 2 1/4	MB-S3		.42
.003	7/16 x 1 1/4	MB-D3		.39	.007	1/2 x 1 1/2	MB-D7		.39	.04	3/4 x 2 1/4	MB-S4		.42
.0033	7/16 x 1 1/4	MB-D13	190P332916	.39	.0075	1/2 x 1 1/2	MB-D75		.39	.05	3/4 x 2 1/4	TR-15*		.42
					.008	5/8 x 1 7/8	MB-D8		.39					

*Waxed paper construction

MINERAL-OIL BLACK BEAUTY® MOLDED TUBULARS

● Kraftboard Sleeve and Epoxy End-Seal Gives Added Circuit Protection ● All Paper Dielectric, Impregnated With Mineral Oil For Best High Voltage Performance ● Maximum Operating Temperature: 85°C

6000 WVDC BUFFER				10,000 WVDC BUFFER				12,500 WVDC BUFFER			
µF	D. x L.	Sprague Products Cat. No.	Net	µF	D. x L.	Sprague Products Cat. No.	Net	µF	D. x L.	Sprague Products Cat. No.	Net
.0005	3/8 x 1 7/8	TVM-356	\$.81	.0005	1 1/16 x 2 1/4	TVM-351	\$.90	.00025	1 1/16 x 2 1/4	12TVM-325	\$1.02
.001	3/8 x 1 7/8	TVM-216	.81								
.005	1 1/16 x 2 1/4	TVM-256	.81								

AUTOCON® MOLDED TUBULAR CAPACITORS

- Generous 1" Lead Lengths Make Autocons Universal Replacements For All Single Ended Original Equipment Types Used on Printed Wiring Boards
- Pre-molded Thermosetting Plastic Shell with Plastic Resin Endseal for Humidity Protection, Outside Foil Identified by Index Key

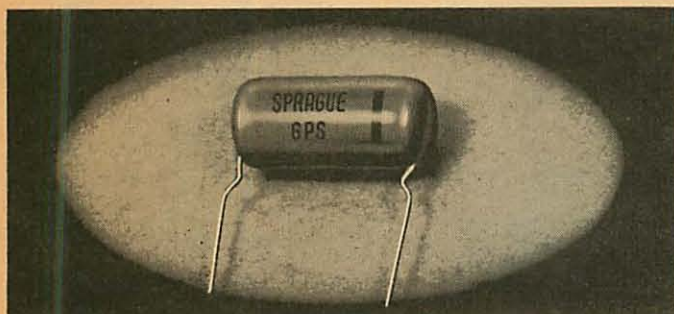
- Autocons Have High Insulation Resistance, Low Power Factor, and a Flat Temperature-Capacitance Curve
- Impregnated with HCX®, an Exclusive Solid Dielectric Material
- "Standoff" Feet Prevent Dust and Moisture Traps. Also Prevent Printed Wiring Board Shorts



µF	WVDC	Diam.	Length	Cat. No.	Net	µF	WVDC	Diam.	Length	Cat. No.	Net
.001	200	3/8	1 3/8	2SE-D10	\$.18	.015	400	3/8	1 3/8	4SE-S15	\$.18
.0015	200	3/8	1 3/8	2SE-D15	.18	.022	400	7/16	1 3/8	4SE-S22	.21
.0022	200	3/8	1 3/8	2SE-D22	.18	.033	400	7/16	1 3/8	4SE-S33	.21
.0033	200	3/8	1 3/8	2SE-D33	.18	.047	400	1/2	1 1/2	4SE-S47	.21
.0047	200	3/8	1 3/8	2SE-D47	.18	.068	400	1/2	1 1/2	4SE-S68	.24
.0068	200	3/8	1 3/8	2SE-D68	.18	.1	400	3/8	1 7/8	4SE-P10	.27
.01	200	3/8	1 3/8	2SE-S10	.18	.15	400	3/8	1 7/8	4SE-P15	.30
.015	200	3/8	1 3/8	2SE-S15	.18	.22	400	3/8	1 7/8	4SE-P22	.33
.022	200	3/8	1 3/8	2SE-S22	.21	.33	400	3/4	1 7/8	4SE-P33	.39
.033	200	3/8	1 3/8	2SE-S33	.21	.001	600	3/8	1 3/8	6SE-D10	.18
.047	200	7/16	1 3/8	2SE-S47	.21	.0015	600	3/8	1 3/8	6SE-D15	.18
.068	200	7/16	1 3/8	2SE-S68	.21	.0022	600	3/8	1 3/8	6SE-D22	.18
.1	200	1/2	1 1/2	2SE-P10	.24	.0033	600	3/8	1 3/8	6SE-D33	.18
.15	200	5/8	1 7/8	2SE-P15	.27	.0047	600	3/8	1 3/8	6SE-D47	.18
.22	200	3/8	1 7/8	2SE-P22	.30	.0068	600	3/8	1 3/8	6SE-D68	.18
.33	200	3/8	1 7/8	2SE-P33	.33	.01	600	3/8	1 3/8	6SE-S10	.21
.47	200	3/4	1 7/8	2SE-P47	.39	.015	600	7/16	1 3/8	6SE-S15	.21
.001	400	3/8	1 3/8	4SE-D10	.18	.022	600	7/16	1 3/8	6SE-S22	.24
.0015	400	3/8	1 3/8	4SE-D15	.18	.033	600	1/2	1 1/2	6SE-S33	.24
.0022	400	3/8	1 3/8	4SE-D22	.18	.047	600	1/2	1 1/2	6SE-S47	.27
.0033	400	3/8	1 3/8	4SE-D33	.18	.068	600	5/8	1 7/8	6SE-S68	.30
.0047	400	3/8	1 3/8	4SE-D47	.18	.1	600	5/8	1 7/8	6SE-P10	.33
.0068	400	3/8	1 3/8	4SE-D68	.18	.15	600	3/4	1 7/8	6SE-P15	.36
.01	400	3/8	1 3/8	4SE-S10	.18						

SPRAGUE CAPACITORS

DIFILM® ORANGE DROP® DIPPED TUBULARS



- Especially Made for Exact, Original Replacement
- Dual Dielectric (Film-paper) Solidly Impregnated With Exclusive HCX®—Produces Rock-Hard Capacitor Section

- Outperforms Any Other Dipped Tubular Capacitor
- Crimped Wire Leads for Correct Spacing When Mounted On Printed Wiring Boards.
- Voltage Ratings From 200 VDC to 1000 VDC
- Outside Foil on All Units Identified by Black Striping
- Double Dipped in Bright Orange Epoxy Resin—Beats Heat and Humidity
- Won't Leak or Drip
- Also Available in Handy Sprague Kleer-Pak® Boxes
- Write for Engineering Bulletin No. 2004

μF	D. x L.	Sprague Products Cat. No.	Sprague O.E.M. Part No.	Net
200 VOLTS D-C				
.02	3/8 x 7/8	2PS-S20	.....	\$.15
.022	2 3/64 x 7/8	2PS-S22	220P22392	.15
.047	2 3/64 x 7/8	2PS-S47	220P47392	.15
.05	1 3/32 x 7/8	2PS-S50	.....	.15
.1	3 1/64 x 1 3/16	2PS-P10	220P10492	.21
.15	3 1/16 x 1 3/16	2PS-P15	220P15492	.21
.2	1 3/32 x 1 1/16	2PS-P20	.....	.24
.22	3 3/64 x 1 3/16	2PS-P22	220P22492	.24
.25	5/8 x 1 3/16	2PS-P25	.....	.24
.33	3/4 x 1 5/8	2PS-P33	220P33492	.30
.47	4 3/64 x 1 5/8	2PS-P47	220P47492	.36
.5	2 1/32 x 1 5/8	2PS-P50	.....	.36

μF	D. x L.	Sprague Products Cat. No.	Sprague O.E.M. Part No.	Net
400 VOLTS D-C				
.01	1 3/32 x 1 1/16	4PS-S10	220P10394	.15
.015	2 3/64 x 1 1/16	4PS-S15	220P15394	.15
.02	1 3/32 x 7/8	4PS-S20	.....	.15
.022	2 3/64 x 7/8	4PS-S22	220P22394	.18
.025	7/16 x 7/8	4PS-S25	.....	.18
.03	2 3/64 x 7/8	4PS-S30	.....	.18
.033	1 3/32 x 7/8	4PS-S33	220P33394	.18
.04	2 3/64 x 1 3/16	4PS-S40	.....	.18
.047	2 3/64 x 1 3/16	4PS-S47	220P47394	.18
.05	2 3/64 x 1 3/16	4PS-S50	.....	.18
.056	3 1/64 x 1 3/16	4PS-S56	220P56394	.21
.068	3 3/64 x 1 3/16	4PS-S68	220P68394	.21
.075	3 3/64 x 1 3/16	4PS-S75	.....	.21
.1	3 7/64 x 1 3/16	4PS-P10	220P10494	.21
.15	3 3/64 x 1 3/16	4PS-P15	220P15494	.24
.2	1 3/32 x 1 5/8	4PS-P20	.....	.27
.22	3 3/64 x 1 5/8	4PS-P22	220P22494	.27
.25	4 1/64 x 1 5/8	4PS-P25	.....	.30

μF	D. x L.	Sprague Products Cat. No.	Sprague O.E.M. Part No.	Net
600 VOLTS D-C				
.001	2 3/64 x 1 1/16	6PS-D10	220P10296	.15
.0012	2 3/64 x 1 1/16	6PS-D12	220P12296	.15
.0015	2 3/64 x 1 1/16	6PS-D15	220P15296	.15
.0018	2 3/64 x 1 1/16	6PS-D18	220P18296	.15
.002	2 3/64 x 1 1/16	6PS-D20	.....	.15
.0022	2 3/64 x 1 1/16	6PS-D22	220P22296	.15
.0025	2 3/64 x 1 1/16	6PS-D25	.....	.15
.0027	1 1/32 x 1 1/16	6PS-D27	220P27296	.15
.003	1 1/32 x 1 1/16	6PS-D30	.....	.15
.0033	2 3/64 x 1 1/16	6PS-D33	220P33296	.15

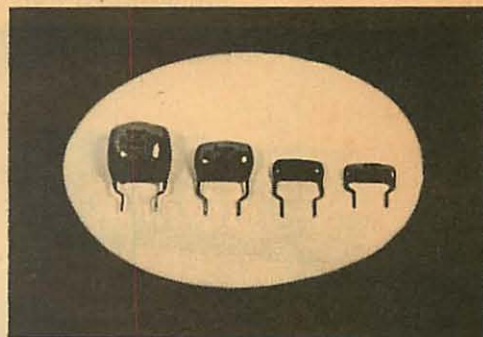
μF	D. x L.	Sprague Products Cat. No.	Sprague O.E.M. Part No.	Net
600 VOLTS D-C (cont.)				
.0039	3/8 x 1 1/16	6PS-D39	220P39296	\$.15
.004	3/8 x 1 1/16	6PS-D40	.....	.15
.0047	2 3/64 x 1 1/16	6PS-D47	220P47296	.15
.005	2 3/64 x 1 1/16	6PS-D50	.....	.15
.0056	2 3/64 x 1 1/16	6PS-D56	220P56296	.15
.006	1 3/32 x 1 1/16	6PS-D60	.....	.15
.0068	1 3/32 x 1 1/16	6PS-D68	220P68296	.18
.0075	2 3/64 x 7/8	6PS-D75	.....	.18
.008	2 3/64 x 7/8	6PS-D80	.....	.18
.0082	3/8 x 7/8	6PS-D82	220P82296	.18
.01	2 3/64 x 7/8	6PS-S10	220P10396	.18
.012	2 3/64 x 7/8	6PS-S12	220P12396	.18
.015	2 3/64 x 7/8	6PS-S15	220P15396	.18
.02	3 1/64 x 7/8	6PS-S20	.....	.18
.022	3 1/64 x 7/8	6PS-S22	220P22396	.18
.025	1 3/32 x 7/8	6PS-S25	.....	.21
.027	7/16 x 1 3/16	6PS-S27	220P27396	.21
.03	7/16 x 1 3/16	6PS-S30	.....	.21
.033	1 3/32 x 1 3/16	6PS-S33	220P33396	.21
.035	1 3/32 x 1 3/16	6PS-S35	.....	.21
.039	3 1/64 x 1 3/16	6PS-S39	220P39396	.21
.04	1/2 x 1 3/16	6PS-S40	.....	.21
.047	1 3/32 x 1 3/16	6PS-S47	220P47396	.24
.05	1 3/32 x 1 3/16	6PS-S50	.....	.24
.056	3 3/64 x 1 3/16	6PS-S56	220P56396	.24
.06	7/16 x 1 3/16	6PS-S60	.....	.24
.068	3 3/64 x 1 3/16	6PS-S68	220P68396	.27
.075	3 3/64 x 1 3/16	6PS-S75	.....	.27
.082	3 3/64 x 1 3/16	6PS-S82	220P82396	.27
.1	5/8 x 1 5/8	6PS-P10	220P10496	.27
.15	4 3/64 x 1 5/8	6PS-P15	220P15496	.30
.2	3/4 x 1 5/8	6PS-P20	.....	.39
.22	2 3/32 x 1 5/8	6PS-P22	220P22496	.42
.25	1 3/16 x 1 5/8	6PS-P25	.....	.45

μF	D. x L.	Sprague Products Cat. No.	Sprague O.E.M. Part No.	Net
1000 VOLTS D-C				
.001	2 3/64 x 1 1/16	10PS-D10	220P102910	.30
.0015	1 3/32 x 1 1/16	10PS-D15	220P152910	.30
.002	3/8 x 1 1/16	10PS-D20	.....	.30
.0022	3/8 x 1 1/16	10PS-D22	220P222910	.30
.003	1 1/32 x 7/8	10PS-D30	.....	.30
.004	3/8 x 7/8	10PS-D40	.....	.30
.0047	1 3/32 x 7/8	10PS-D47	220P472910	.30
.005	1 3/32 x 7/8	10PS-D50	.....	.30

SPRAGUE CAPACITORS

TYPE 225P FILMITE® 'E' ORANGE DROP® CAPACITORS

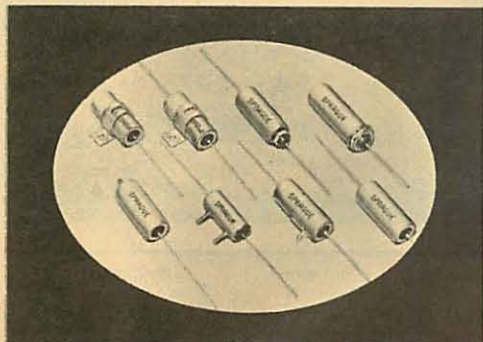
- Designed Specifically for Printed Wiring Board Applications and are Furnished with Radial Leads to Facilitate Insertion on Boards
- Find Wide Application in Television Receivers, Radio Sets, and Commercial Electronic Equipment
- Available in Voltage Ratings of 75 Volts and 100 Volts D-C for Operation up to 85C
- Capacitor Sections are Wound From Polyester Film and Thin-gage Foil Under Carefully Controlled Atmospheric Conditions
- Protected Against Moisture by a Wax-free Conformal Coating of Epoxy
- For Complete Technical Data, Refer to Latest Issue of Sprague Engineering Bulletin 2062
- Call Your Sprague Industrial Distributor for Current Quantity Prices



μF	Tol.	Size Height x Thickness x Length	Catalog Number	μF	Tol.	Size Height x Thickness x Length	Catalog Number
75 VOLTS D-C				100 VOLTS D-C (Cont.)			
.12	10%	$\frac{5}{8} \times \frac{3}{4} \times \frac{3}{4}$	225P1249R75	.0033	10%	$\frac{3}{16} \times \frac{1}{4} \times \frac{4}{16}$	225P33291
.15	10%	$\frac{5}{8} \times \frac{3}{4} \times \frac{3}{4}$	225P1549R75	.0039	10%	$\frac{3}{16} \times \frac{1}{4} \times \frac{4}{16}$	225P39291
.18	10%	$\frac{3}{4} \times \frac{2}{4} \times \frac{3}{4}$	225P1849R75	.0047	10%	$\frac{3}{16} \times \frac{1}{4} \times \frac{4}{16}$	225P47291
.22	10%	$\frac{3}{4} \times \frac{2}{4} \times \frac{3}{4}$	225P2249R75	.0056	10%	$\frac{3}{16} \times \frac{1}{4} \times \frac{4}{16}$	225P56291
.27	10%	$\frac{2}{32} \times \frac{3}{16} \times \frac{3}{4}$	225P2749R75	.0068	10%	$\frac{3}{16} \times \frac{1}{4} \times \frac{4}{16}$	225P68291
.33	10%	$\frac{2}{32} \times \frac{3}{16} \times \frac{3}{4}$	225P3349R75	.0082	10%	$\frac{3}{16} \times \frac{1}{4} \times \frac{4}{16}$	225P82291
.39	10%	$\frac{2}{32} \times \frac{1}{2} \times \frac{3}{4}$	225P3949R75	.01	10%	$\frac{3}{16} \times \frac{1}{4} \times \frac{4}{16}$	225P10391
.47	10%	$\frac{2}{32} \times \frac{1}{2} \times \frac{3}{4}$	225P4749R75	.012	10%	$\frac{3}{16} \times \frac{1}{4} \times \frac{4}{16}$	225P12391
.56	10%	$\frac{3}{4} \times \frac{1}{16} \times \frac{1}{16}$	225P5649R75	.015	10%	$\frac{3}{16} \times \frac{1}{4} \times \frac{4}{16}$	225P15391
.68	10%	$\frac{2}{32} \times \frac{1}{2} \times \frac{1}{16}$	225P6849R75	.018	10%	$\frac{3}{16} \times \frac{1}{4} \times \frac{4}{16}$	225P18391
.82	10%	$\frac{3}{4} \times \frac{1}{2} \times \frac{1}{16}$	225P8249R75	.022	10%	$\frac{3}{16} \times \frac{1}{4} \times \frac{4}{16}$	225P22391
1.0	10%	$\frac{3}{4} \times \frac{1}{2} \times \frac{1}{16}$	225P1059R75	.027	10%	$\frac{3}{16} \times \frac{1}{4} \times \frac{4}{16}$	225P27391
100 VOLTS D-C				.033	10%	$\frac{3}{16} \times \frac{1}{4} \times \frac{4}{16}$	225P33391
.001	10%	$\frac{3}{16} \times \frac{1}{4} \times \frac{4}{16}$	225P10291	.039	10%	$\frac{3}{16} \times \frac{1}{4} \times \frac{4}{16}$	225P39391
.0012	10%	$\frac{3}{16} \times \frac{1}{4} \times \frac{4}{16}$	225P12291	.047	10%	$\frac{1}{32} \times \frac{1}{4} \times \frac{4}{16}$	225P47391
.0015	10%	$\frac{3}{16} \times \frac{1}{4} \times \frac{4}{16}$	225P15291	.056	10%	$\frac{3}{8} \times \frac{1}{2} \times \frac{4}{16}$	225P56391
.0018	10%	$\frac{3}{16} \times \frac{1}{4} \times \frac{4}{16}$	225P18291	.068	10%	$\frac{3}{8} \times \frac{1}{2} \times \frac{4}{16}$	225P68391
.0022	10%	$\frac{3}{16} \times \frac{1}{4} \times \frac{4}{16}$	225P22291	.082	10%	$\frac{1}{32} \times \frac{1}{4} \times \frac{4}{16}$	225P82391
.0027	10%	$\frac{3}{16} \times \frac{1}{4} \times \frac{4}{16}$	225P27291	.1	10%	$\frac{1}{32} \times \frac{1}{4} \times \frac{4}{16}$	225P10491

TYPE 260P

TUBULAR METAL-CLAD METALLIZED FILMITE® 'K' CAPACITORS



- Designed for Applications Such as Low-frequency Tuned Circuits, Analog Computer Reference Capacitors and Precision Timing and Integrating Circuits
- High Insulation Resistance, High Stability, Minimum Capacitance Change with Temperature, Low Dielectric Absorption and Low Dissipation Factor
- Capacitor Sections are of Non-inductive Construction
- Will Operate at Full Rated D-C Voltage Over the Temperature Range of -55C to $+105\text{C}$
- Capacitance Tolerance: $\pm 5\%$ Voltage Rating 200 WVDC
- For Complete Technical Data, Refer to the Latest Issue of Sprague Engineering Bulletin 2705
- Call Your Sprague Industrial Distributor for Current Quantity Prices

μF	WVDC	D. x L.	Catalog No.	μF	WVDC	D. x L.	Catalog No.
.01	200	.175" x $\frac{3}{4}$	260P1035254	.47	200	.400" x $\frac{1}{8}$	260P4745254
.015	200	.195" x $\frac{3}{4}$	260P1535254	.68	200	.562" x $\frac{1}{8}$	260P6845254
.022	200	.235" x $\frac{3}{4}$	260P2235254	1.0	200	.562" x $\frac{1}{8}$	260P1055254
.033	200	.235" x $\frac{3}{4}$	260P3335254	2.0	200	.670" x $\frac{1}{8}$	260P2055254
.047	200	.312" x $\frac{7}{8}$	260P4735254	3.0	200	.750" x $\frac{1}{8}$	260P3055254
.056	200	.312" x $\frac{7}{8}$	260P5635254	4.0	200	.750" x $\frac{1}{8}$	260P4055254
.068	200	.312" x $\frac{7}{8}$	260P6835254	5.0	200	.750" x $\frac{1}{8}$	260P5055254
.1	200	.312" x $\frac{7}{8}$	260P1045254	7.0	200	1.000" x $\frac{1}{8}$	260P7055254
.15	200	.312" x $\frac{1}{2}$	260P1545254	8.0	200	1.000" x $\frac{1}{8}$	260P8055254
.22	200	.400" x $\frac{1}{8}$	260P2245254	10.0	200	1.000" x $\frac{1}{8}$	260P1065254
.33	200	.400" x $\frac{1}{8}$	260P3345254				

SPRAGUE CAPACITORS

BF ISOFARAD[®] PLASTIC FILM CAPACITORS

For Applications Where the Best in Tubulars is None Too Good



- Isofarad Quality is a Must in Color TV Synchronizing Circuits, Horizontal and Vertical Oscillators, Bridge and Parallel T Circuits and Other Tuned Circuit Applications Requiring Close Tolerance and Zero Temperature Coefficient of Capacitance
- Superior to Silvered Mica Capacitors, Yet Far Less Expensive
- Constant Capacitance—Will Not Change More Than $\pm 0.2\%$ from Room Temperature to $+80^{\circ}\text{C}$ at Maximum Rated Voltage Will Withstand Operating Temperatures to 85°C (185°F)
- **Capacitance Tolerance:** $\pm 5\%$
- Also Available in Handy Sprague Kleer-Pak[®] Boxes
- For Complete Technical Data, See Latest Issue of Sprague Engineering Bulletin 2073

μF	D. x L.	Sprague Products Cat. No.	Sprague O.E.M. Part No.	Net
500 WVDC				
.001	$\frac{3}{8} \times 1$	5BF-D10	145P10255	\$.45
.0012	$\frac{3}{8} \times 1$	5BF-D12	145P12255	.45
.0015	$\frac{3}{8} \times 1$	5BF-D15	145P15255	.45
.0018	$\frac{3}{8} \times 1$	5BF-D18	145P18255	.45
.0022	$\frac{3}{8} \times 1$	5BF-D22	145P22255	.45
.0027	$\frac{3}{8} \times 1$	5BF-D27	145P27255	.45
.0033	$\frac{3}{8} \times 1$	5BF-D33	145P33255	.45
.0039	$\frac{3}{8} \times 1$	5BF-D39	145P39255	.48
.0047	$\frac{3}{8} \times 1$	5BF-D47	145P47255	.48
.0056	$\frac{3}{8} \times 1\frac{1}{4}$	5BF-D56	145P56255	.48
.0068	$\frac{3}{8} \times 1\frac{1}{4}$	5BF-D68	145P68255	.48
.0082	$\frac{7}{16} \times 1\frac{1}{4}$	5BF-D82	145P82255	.48
.01	$\frac{7}{16} \times 1\frac{1}{4}$	5BF-S10	145P10355	.54
.012	$\frac{1}{2} \times 1\frac{1}{4}$	5BF-S12	145P12355	.54
.015	$\frac{1}{2} \times 1\frac{1}{4}$	5BF-S15	145P15355	.75
.018	$\frac{1}{2} \times 1\frac{1}{2}$	5BF-S18	145P18355	.75

μF	D. x L.	Sprague Products Cat. No.	Sprague O.E.M. Part No.	Net
500 WVDC (cont.)				
.022	$\frac{1}{2} \times 1\frac{1}{2}$	5BF-S22	145P22355	\$.90
.027	$\frac{5}{8} \times 1\frac{1}{8}$	5BF-S27	145P27355	.90
.033	$\frac{5}{8} \times 1\frac{1}{8}$	5BF-S33	145P33355	1.08
.039	$\frac{5}{8} \times 1\frac{1}{8}$	5BF-S39	145P39355	1.08
.047	$\frac{5}{8} \times 1\frac{1}{8}$	5BF-S47	145P47355	1.26
.056	$\frac{5}{8} \times 1\frac{1}{8}$	5BF-S56	145P56355	1.26
.068	$\frac{5}{8} \times 1\frac{1}{8}$	5BF-S68	145P68355	1.59
.082	$\frac{3}{4} \times 1\frac{1}{4}$	5BF-S82	145P82355	2.16
.1	$\frac{3}{4} \times 2\frac{1}{4}$	5BF-P10	145P10455	2.16
.12	$\frac{7}{8} \times 2\frac{1}{2}$	5BF-P12	145P12455	2.94
.15	$\frac{7}{8} \times 2\frac{1}{2}$	5BF-P15	145P15455	2.94
.18	$\frac{7}{8} \times 2\frac{1}{2}$	5BF-P18	145P18455	4.05
.22	$\frac{7}{8} \times 2\frac{1}{2}$	5BF-P22	145P22455	4.05
.27	$1 \times 2\frac{1}{2}$	5BF-P27	145P27455	4.95
.33	$1 \times 2\frac{1}{2}$	5BF-P33	145P33455	4.95

WF YELLOW-JACKET[®] FILMITE[®] 'E' CAPACITORS

- Excellent for Use in Transistorized Circuits and Low-Voltage Electron Tube Circuits
- Extended Foil Type Sections, Wound from Selected, Ultra-Thin Polyester Film and Thin Gage Foil
- Outer Plastic Film Wrap and Resin End Seals Protect Against Moisture and Humidity
- "Smaller Than Small" — These Capacitors Will Fit Anywhere
- Rated to **200 WVDC** — Capacitance Tolerance: $\pm 10\%$
- Designed for Operation to 85°C (185°F)
- Available in Kleer-Pak[®] Boxes.
- For Technical Data See Latest Issue of Sprague Bulletin 2063



μF	D. x L.	Sprague Products Cat. No.	Sprague O.E.M. Part No.	Net
200 WVDC				
.01	$\frac{1}{4} \times \frac{1}{16}$	2WF-S10	148P10392	\$.57
.012	$\frac{1}{4} \times \frac{1}{16}$	2WF-S12	148P12392	.57
.015	$\frac{1}{4} \times \frac{1}{16}$	2WF-S15	148P15392	.57
.018	$\frac{1}{4} \times \frac{1}{16}$	2WF-S18	148P18392	.57
.022	$\frac{1}{4} \times \frac{1}{16}$	2WF-S22	148P22392	.57
.027	$\frac{1}{4} \times \frac{1}{16}$	2WF-S27	148P27392	.57
.033	$\frac{1}{4} \times \frac{1}{16}$	2WF-S33	148P33392	.60
.039	$\frac{1}{4} \times \frac{1}{16}$	2WF-S39	148P39392	.60
.047	$\frac{1}{4} \times \frac{1}{16}$	2WF-S47	148P47392	.60
.056	$\frac{1}{4} \times \frac{1}{16}$	2WF-S56	148P56392	.60
.068	$\frac{1}{4} \times \frac{1}{16}$	2WF-S68	148P68392	.60
.082	$\frac{1}{4} \times \frac{1}{16}$	2WF-S82	148P82392	.60
.1	$\frac{1}{4} \times \frac{1}{16}$	2WF-P10	148P10492	.63

μF	D. x L.	Sprague Products Cat. No.	Sprague O.E.M. Part No.	Net
200 WVDC (cont.)				
.12	$\frac{1}{2} \times \frac{1}{16}$	2WF-P12	148P12492	\$.63
.15	$\frac{1}{2} \times \frac{1}{16}$	2WF-P15	148P15492	.63
.18	$\frac{1}{2} \times \frac{1}{16}$	2WF-P18	148P18492	.66
.22	$\frac{1}{2} \times \frac{1}{16}$	2WF-P22	148P22492	.66
.27	$\frac{1}{2} \times \frac{1}{16}$	2WF-P27	148P27492	.66
.33	$\frac{1}{2} \times \frac{1}{16}$	2WF-P33	148P33492	.66
.39	$\frac{3}{4} \times \frac{1}{16}$	2WF-P39	148P39492	.72
.47	$\frac{3}{4} \times \frac{1}{16}$	2WF-P47	148P47492	.72
.56	$\frac{3}{4} \times \frac{1}{16}$	2WF-P56	148P56492	.90
.68	$\frac{3}{4} \times \frac{1}{16}$	2WF-P68	148P68492	.90
.82	$\frac{1}{2} \times \frac{1}{8}$	2WF-P82	148P82492	.90
1.0	$\frac{1}{2} \times \frac{1}{8}$	2WF-M1	148P10592	.90

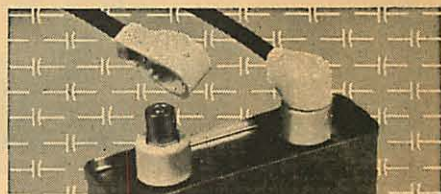
SPRAGUE CAPACITORS



TYPE CR RECTANGULAR OILS

- Hermetically sealed in Rugged Rectangular Metal Cans
- Oil-Impregnated and Oil-Filled
- Extremely High Insulation Resistance
- Will Withstand High Surge Voltages and High Ambient Temperatures
- Widely Used in Transmitter Power Supplies and Other High-Voltage Applications

- Furnished With Adapters (as shown below) to Fit Standard Transmitting Tube Plate Caps



μF	WVDC	T. x W. x L.	Cat. No.	Net	μF	WVDC	T. x W. x L.	Cat. No.	Net
.5	600	1 1/16 x 1 3/16 x 2 1/4	CR-056	\$2.82	3.0	2000	1 1/4 x 3 3/4 x 4 3/4	CR-32	\$ 7.92
1.0	600	1 1/16 x 1 3/16 x 2 1/4	CR-16	3.48	4.0	2000	2 1/4 x 3 3/4 x 3 3/8	CR-42	9.09
2.0	600	1 1/16 x 1 3/16 x 2 3/8	CR-26	4.29	6.0	2000	3 3/16 x 3 3/4 x 4 1/2	CR-62	12.06
3.0	600	1 1/16 x 1 3/16 x 3 1/4	CR-36	4.95	10.0	2000	4 1/16 x 3 3/4 x 4 3/4	CR-102	18.33
4.0	600	1 3/16 x 2 1/2 x 3 1/2	CR-46	5.46	.1	2500	1 3/16 x 2 1/2 x 2 1/2	CR-0125	6.09
6.0	600	1 3/16 x 2 1/2 x 4 3/4	CR-66	6.78	.5	2500	1 1/4 x 3 3/4 x 3 3/4	CR-0525	6.93
8.0	600	1 1/4 x 3 3/4 x 3 3/8	CR-86	8.10	1.0	2500	1 3/4 x 3 3/4 x 3 1/4	CR-125	7.92
10.0	600	1 1/4 x 3 3/4 x 4 3/4	CR-106	9.09	2.0	2500	1 3/4 x 3 3/4 x 4 3/4	CR-225	12.87
.1	1000	1 1/16 x 1 13/16 x 1 5/8	CR-011	2.49	4.0	2500	4 1/16 x 3 3/4 x 4 3/8	CR-425	18.00
.25	1000	1 1/16 x 1 13/16 x 2 1/4	CR-0251	2.82	.1	3000	1 3/16 x 2 1/2 x 2 1/2	CR-013	8.43
.5	1000	1 1/16 x 1 13/16 x 2 1/4	CR-051	2.97	.25	3000	1 3/16 x 2 1/2 x 2 7/8	CR-0253	8.91
1.0	1000	1 1/16 x 1 13/16 x 2 1/4	CR-11	3.81	.5	3000	1 3/16 x 2 1/2 x 4 1/4	CR-053	10.08
2.0	1000	1 1/16 x 1 13/16 x 2 3/8	CR-21	4.95	1.0	3000	2 1/4 x 3 3/4 x 3 3/8	CR-13	12.06
4.0	1000	1 3/16 x 2 1/2 x 3 5/8	CR-41	6.27	2.0	3000	3 3/16 x 3 3/4 x 4 1/2	CR-23	15.03
8.0	1000	1 1/4 x 3 3/4 x 4 3/4	CR-81	9.09	4.0	3000	4 1/16 x 3 3/4 x 4 3/4	CR-43	22.11
10.0	1000	1 3/4 x 3 3/4 x 4 3/4	CR-101	10.08	.1	4000	2 1/4 x 3 3/4 x 2 3/4	CR-014	10.80
12.0	1000	2 1/4 x 3 3/4 x 4 1/2	CR-121	10.89	.25	4000	2 1/4 x 3 3/4 x 2 3/4	CR-0254	12.00
15.0	1000	2 1/2 x 3 3/4 x 4 3/4	CR-151	12.06	.5	4000	2 1/4 x 3 3/4 x 3 3/8	CR-054	13.80
.5	1500	1 1/16 x 1 13/16 x 2 3/8	CR-0515	3.81	1.0	4000	2 1/4 x 3 3/4 x 5 1/8	CR-14	17.40
1.0	1500	1 1/16 x 1 13/16 x 3 3/8	CR-115	4.47	2.0	4000	4 1/16 x 3 3/4 x 5 1/8	CR-24	23.40
2.0	1500	1 3/16 x 2 1/2 x 4 1/4	CR-215	6.12	.2	5000	1 3/4 x 3 3/4 x 3 3/8	CR-025	12.00
4.0	1500	1 1/4 x 3 3/4 x 4 3/4	CR-415	8.43	.5	5000	2 1/4 x 3 3/4 x 4 1/2	CR-055	15.00
5.0	1500	1 1/4 x 3 3/4 x 4 3/4	CR-515	9.09	1.0	5000	4 1/16 x 3 3/4 x 4 3/8	CR-15	20.40
8.0	1500	2 1/2 x 3 3/4 x 4 3/4	CR-815	12.54	2.0	5000	4 1/16 x 3 3/4 x 6	CR-25	31.20
10.0	1500	3 3/16 x 3 3/4 x 4 3/4	CR-1015	15.03	.1	6000	2 1/4 x 3 3/4 x 3 3/8	CR-0160	16.20
.1	2000	1 3/16 x 2 1/2 x 2 1/2	CR-012	3.96	.2	6000	1 3/4 x 3 3/4 x 4 1/4	CR-0260	18.00
.25	2000	1 3/16 x 2 1/2 x 2 1/2	CR-0252	4.29	1.0	6000	4 1/16 x 3 3/4 x 7 1/2	CR-160	29.40
.5	2000	1 3/16 x 2 1/2 x 2 7/8	CR-052	4.47	.1	7500	2 1/4 x 3 3/4 x 3 3/8	CR-0175	17.40
1.0	2000	1 3/16 x 2 1/2 x 3 1/2	CR-12	5.46	.2	7500	1 3/4 x 3 3/4 x 4 3/4	CR-0275	19.80
2.0	2000	1 1/4 x 3 3/4 x 4 1/4	CR-22	6.45					

SCREWBASE PC OILS



- Oil-Impregnated
- Oil-Filled
- Screwbase Can For Easy Single Hole Mounting
- Small Size — Will Fit Tight Spaces

μF	WVDC	Diam. x Lgth.	Cat. No.	Net
2	600	1 1/2 x 2 7/8	PC-26	\$3.24
3	600	1 1/2 x 3 1/2	PC-36	3.69
4	600	1 1/2 x 5 1/4	PC-46	4.26
1	1000	1 1/2 x 2 7/8	PC-11	3.00
2	1000	1 1/2 x 4 1/2	PC-21	3.78
0.5	1500	1 1/2 x 2 3/8	PC-515	3.51
1	1500	1 1/2 x 3 3/8	PC-115	3.78

TYPE BP BATHTUB CAPACITORS

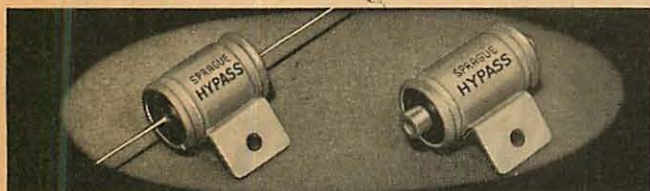
- For Applications Where Severe Operating Conditions Are Encountered
- Hermetically Sealed for Extra Protection
- Seamless Drawn Metal Can
- Oil-Filled and Oil-impregnated for Long, Dependable Service Life
- Convenient Mounting Ears are Integral Part of Metal Container



μF	L. x W. x H.	Cat. No.	Net	μF	L. x W. x H.	Cat. No.	Net
400 WVDC				1000 WVDC			
.1	1 1/4 x 1 x 3/4	BP-1	\$1.32	.1	1 1/4 x 1 x 3/4	BP-216	\$2.22
.25	1 1/4 x 1 x 3/4	BP-25	1.50	.25	1 1/4 x 1 x 3/4	BP-2256	2.25
.5	1 1/4 x 1 x 3/4	BP-50	1.59	.5	2 x 2 x 1 1/8	BP-2506	2.58
1.0	2 x 1 3/4 x 7/8	BP-10	1.89	1.0	2 x 2 x 1 1/8	BP-116	3.18
.1	1 1/4 x 1 x 3/4	BP-21	1.98	.1	1 1/4 x 1 x 3/4	BP-316	2.52
.25	1 1/4 x 1 x 3/4	BP-225	2.16	.25	2 x 1 3/4 x 7/8	B2-3256	2.85
.5	2 x 1 3/4 x 7/8	BP-250	2.49	.5	2 x 2 x 1 1/8	BP-356	3.45
.1	1 1/4 x 1 x 3/4	BP-31	2.40	600 WVDC			
.05	1 1/4 x 1 x 3/4	BP-56	1.74	.05	1 1/4 x 1 x 3/4	BP-51	1.83
.1	1 1/4 x 1 x 3/4	BP-16	1.77	.1	1 1/4 x 1 x 3/4	BP-11	1.89
.25	1 1/4 x 1 x 3/4	BP-256	1.86	.25	1 1/4 x 1 x 3/4	BP-251	1.95
.5	1 1/4 x 1 x 3/4	BP-506	1.98	.5	2 x 1 3/4 x 7/8	BP-501	2.13
1.0	2 x 1 3/4 x 7/8	BP-106	2.25	1.0	2 x 2 x 1 1/8	BP-101	2.64
.2	2 x 2 x 1 1/4	BP-206	3.00	.05	1 1/4 x 1 x 3/4	BP-2051	2.31
.05	1 1/4 x 1 x 3/4	BP-2056	2.19	.1	1 1/4 x 1 x 3/4	BP-211	2.40
				.25	2 x 1 3/4 x 7/8	BP-2251	2.52
				.5	2 x 2 x 1 1/8	BP-2501	3.27
				.1	1 1/4 x 1 x 3/4	BP-311	2.76
				.25	2 x 2 x 1 1/8	BP-3251	3.30

SPRAGUE FILTERS

HYPASS® CAPACITORS



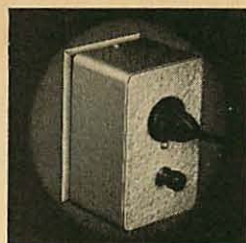
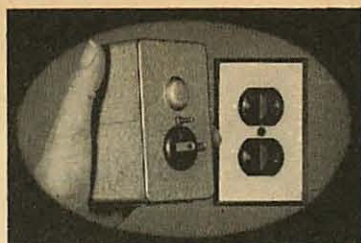
- Exclusive Sprague 3-terminal Network Feed-thru Capacitors
- Bypass V-H-F Currents Where Ordinary Capacitors are Ineffective
- Suppress TVI from Short-wave Transmitters, Diathermy Machines, Electronic Heating Apparatus, etc.
- Eliminate Interference caused by Line-conducted Radiation Between Neighboring TV Sets
- Install Leads in Series with Circuit Being Filtered and Ground the Case

μF	Amps.	WVDC	Dia. x Length	Cat. No.	Net
.5	40	50	1 x 1 1/16	*48P18	\$2.28
.5	60	50	1 x 1 1/16	48P100	3.75
.25	20	200	3/4 x 1 1/16	*48P10	1.56
.5	20	200	1 x 1 1/16	*48P14	1.89
.1	20	250(VAC)	1 1/16 x 1 1/16	*48P9	1.56
.1	20	400	1 1/16 x 1 1/16	*48P6	1.53
.1	20	400	1 1/16 x 1 1/16	†80P1	1.74
.002	15	600	1/4 x 1 3/8	46P12	1.29
.005	15	600	1/4 x 1 3/8	46P8	1.29
.01	20	600	7/16 x 1 1/4	47P6	1.41
.02	20	600	7/16 x 1 1/2	47P8	1.44
.1	20	600	1 1/16 x 1 1/16	*48P8	1.56
.1	20	600	1 1/16 x 1 1/16	*†80P3	1.77
.25	20	600	1 x 1 1/16	*48P12	1.65
.5	20	600	1 x 2 1/4	*48P16	2.10
.005	20	1000	7/16 x 1 1/4	47P12	1.44
.01	20	1000	7/16 x 1 1/2	47P13	1.56
.005	20	2500	1 x 1 1/16	47P14	1.74
.01	20	2500	1 x 1 1/16	47P15	1.86
.002	20	5000	1 x 1 1/16	47P16	1.92

*Has female screw terminals

†Bulkhead mounting.

TYPE F-400 MIRACLE FILTEROL®



A LINE FILTER THAT REALLY WORKS

- Effectively Suppresses Radio Interference by Filtering Power Lines of Receivers and Appliances
- Maximum Noise Eliminating Efficiency because of Practically Zero Length of Ground Lead
- Plugs into Standard Duplex Wall Outlet — Captive Screw Fastens Filterol F-400 to Outlet for Safe, Secure Mounting
- Direct Wall-Mounting Provides Neat Installation — No Unsightly Cord — Receiver or Appliance Plugs into Standard Outlet on Face of F-400
- Will Also Operate at Slightly Reduced Efficiency in Older Homes where Wiring is of Knob and Tube or 2-Conductor Non-Metallic Sheathed Cable Type by Using the External Grounding Post Provided for this Purpose
- Handsomely Finished in Tan Hammerloid Baked Enamel
- Rated at 5 Amperes, 125 Volts AC or DC

TYPE F-400 FILTEROL.....\$7.45 net

TYPE IF FILTERS

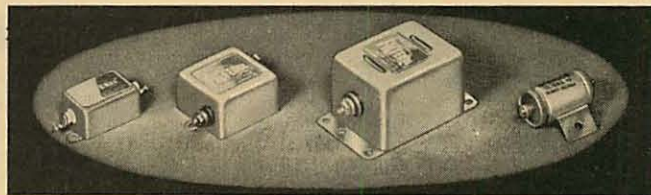


IF-15 IF-11 IF-21 IF-S1 IF-37

- IF-15 — TRIPLE-SECTION FILTER for small motor-operated devices such as fans, drills, etc. designed to prevent shocks from discharge of filter capacitors.
- IF-11 — DUAL HIGH-CAPACITY FILTER designed for use on motors over 1 hp up to 220 volts ac-dc. Also used on high-current arcing devices.
- IF-21 — COMPACT DUAL FILTER for use on fractional horsepower motors with case grounded to motor frame. Also used across line terminals of motors.
- IF-S1 — SINGLE SECTION 2-LEAD FILTER for use across make-and-break contacts, such as thermostats, circuit breakers, etc.
- IF-37 — 3-SECTION DELTA-CONNECTED FILTER especially designed for fluorescent fixtures. Also used on governor-type motors. UL Approved.

Cat. No.	Volts AC or DC	Dia. x Length	Net
IF-15	220	1 x 2 3/8	\$1.56
IF-11	220	1 3/8 x 5 1/4	4.68
IF-21	220	1 x 2 3/8	1.05
IF-S1	220	3/4 x 2 1/8	.69
IF-37	220	1 x 2"	1.35

FILTEROL® FILTERS



FILTEROL 1 FILTEROL 2 FILTEROL 3 FILTEROL 4

Filterol Types 1, 2, and 3 — Designed for connection in series with power supply lines to interference-producing devices... A 3-terminal network with the case as one terminal... The selected filter should have a rating higher than the continuous operating current of the offending device... A single Filterol connected to the high side of the line is usually sufficient... In severe cases a Filterol in each leg of the power line may be necessary... For three or four-wire systems, a Filterol in each wire is necessary.

Filterol Type 4 — A new, exclusive Sprague development incorporating a Sprague HYPASS® Capacitor... Provides exceptionally high attenuation at frequencies above 5 megacycles... Intended for small devices with continuous current ratings up to 20 amperes.

Cat. No.	Amps.	Volts AC or DC	Size	Net
Filterol 1	1	115	7/8 x 1 1/4 x 1 3/4	\$ 8.10
Filterol 2	10	115	1 1/8 x 2 x 2	8.88
Filterol 3	35	115	1 7/8 x 2 7/8 x 3 1/8	16.44
Filterol 4	20	115	1" dia. x 1 1/8" long	1.83

SPRAGUE CAPACITORS

MONOLYTHIC[®] LAYER-BUILT CERAMIC CAPACITORS

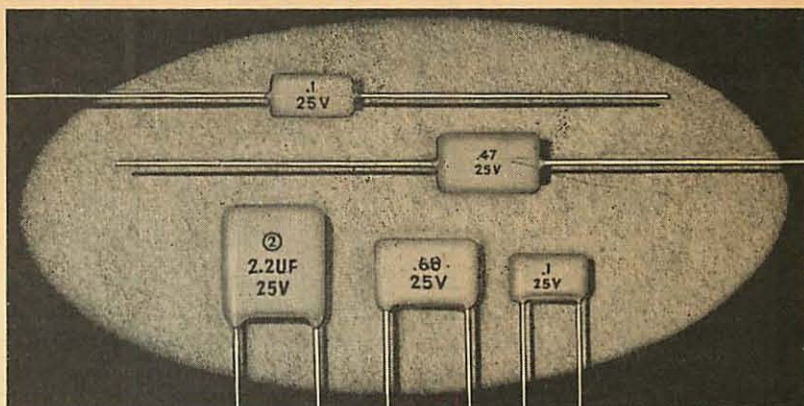
Types 3C and 4C—Formulation N030

Temperature Compensating Units, N030 Dielectric Offers Greater Capacitance Per Unit Volume and Greater Stability Than Previously Available.

- Highly Reliable, Small in Size, Axial or Radial Leads.
- Temperature Coefficient Guaranteed Less Than $\pm .6\%$ Between -55C and $+125\text{C}$.

Types 3C, 4C, 5C—Formulation 023

- High-K General Application—High Capacitances in Small Physical Size, Axial or Radial Leads.
- Well Suited for By-pass and Filtering Applications
- For Complete Technical Data, See Latest Sprague Engineering Bulletin 6212 (N030) or 6201 (023)



Type 3C, 4C Monolithic Ceramic Capacitors—Formulation N030—Temperature Compensating—200 V

μF	Tol.	Cat. No.	CALL YOUR SPRAGUE INDUSTRIAL DISTRIBUTOR FOR CURRENT PRICES	μF	Tol.	Cat. No.	CALL YOUR SPRAGUE INDUSTRIAL DISTRIBUTOR FOR CURRENT PRICES	μF	Tol.	Cat. No.	CALL YOUR SPRAGUE INDUSTRIAL DISTRIBUTOR FOR CURRENT PRICES	μF	Tol.	Cat. No.	CALL YOUR SPRAGUE INDUSTRIAL DISTRIBUTOR FOR CURRENT PRICES
TYPE 3C AXIAL LEADS				TYPE 4C AXIAL LEADS				TYPE 3C RADIAL LEADS				TYPE 4C RADIAL LEADS			
51	5%	3C5105BH1		240	2%	3C2412BH1		1200	5%	4C1225BH1		150	2%	3C1512BH3	
51	2%	3C5102BH1		270	10%	3C2719BH1		1200	2%	4C1222BH1		160	5%	3C1615BH3	
56	10%	3C5609BH1		270	5%	3C2715BH1		1300	5%	4C1325BH1		160	2%	3C1612BH3	
56	5%	3C5605BH1		270	2%	3C2712BH1		1300	2%	4C1322BH1		180	10%	3C1819BH3	
56	2%	3C5602BH1		300	5%	3C3015BH1		1500	10%	4C1529BH1		180	5%	3C1815BH3	
62	5%	3C6205BH1		300	2%	3C3012BH1		1500	5%	4C1525BH1		180	2%	3C1812BH3	
62	2%	3C6202BH1		330	10%	3C3319BH1		1500	2%	4C1522BH1		200	5%	3C2015BH3	
68	10%	3C6809BH1		330	5%	3C3315BH1		1600	5%	4C1625BH1		200	2%	3C2012BH3	
68	5%	3C6805BH1		330	2%	3C3312BH1		1600	2%	4C1622BH1		220	10%	3C2219BH3	
68	2%	3C6802BH1		360	5%	3C3615BH1		1800	10%	4C1829BH1		220	5%	3C2215BH3	
75	5%	3C7505BH1		360	2%	3C3612BH1		1800	2%	4C1822BH1		220	2%	3C2212BH3	
75	2%	3C7502BH1		390	10%	3C3919BH1		1800	5%	4C1825BH1		240	5%	3C2415BH3	
82	10%	3C8209BH1		390	5%	3C3915BH1		1800	2%	4C1822BH1		240	2%	3C2412BH3	
82	5%	3C8205BH1		390	2%	3C3912BH1		1800	5%	4C1825BH1		270	10%	3C2719BH3	
82	2%	3C8202BH1		430	5%	3C4315BH1		270	5%	3C2715BH3		270	5%	3C2712BH3	
91	5%	3C9105BH1		430	2%	3C4312BH1		510	5%	3C5115BH1		300	5%	3C3015BH3	
91	2%	3C9102BH1		470	10%	3C4719BH1		510	2%	3C5112BH1		300	2%	3C3012BH3	
100	10%	3C1019BH1		470	5%	3C4715BH1		560	10%	3C5619BH1		330	10%	3C3319BH3	
100	5%	3C1015BH1		470	2%	3C4712BH1		560	5%	3C5615BH1		330	5%	3C3315BH3	
100	2%	3C1012BH1		510	5%	3C5115BH1		560	2%	3C5612BH1		330	2%	3C3312BH3	
110	5%	3C1115BH1		510	2%	3C5112BH1		620	5%	3C6215BH1		360	5%	3C3615BH3	
110	2%	3C1112BH1		560	10%	3C5619BH1		620	2%	3C6212BH1		360	2%	3C3612BH3	
120	10%	3C1219BH1		560	5%	3C5615BH1		680	10%	3C6819BH1		390	10%	3C3919BH3	
120	5%	3C1215BH1		560	2%	3C5612BH1		680	5%	3C6815BH1		390	5%	3C3915BH3	
120	2%	3C1212BH1	620	5%	3C6215BH1	680	2%	3C6812BH1	390	2%	3C3912BH3				
130	5%	3C1315BH1	620	2%	3C6212BH1	75	5%	3C7505BH3	430	5%	3C4315BH3				
130	2%	3C1312BH1	680	10%	3C6819BH1	75	2%	3C7502BH3	430	2%	3C4312BH3				
150	10%	3C1519BH1	680	5%	3C6815BH1	82	10%	3C8209BH3	470	10%	3C4719BH3				
150	5%	3C1515BH1	680	2%	3C6812BH1	82	5%	3C8205BH3	470	5%	3C4715BH3				
150	2%	3C1512BH1	750	5%	4C7515BH1	82	2%	3C8202BH3	470	2%	3C4712BH3				
160	5%	3C1615BH1	750	2%	4C7512BH1	91	5%	3C9105BH3	510	5%	3C5115BH3				
160	2%	3C1612BH1	820	10%	4C8219BH1	91	2%	3C9102BH3	510	2%	3C5112BH3				
180	10%	3C1819BH1	820	5%	4C8215BH1	100	10%	3C1019BH3	560	10%	3C5619BH3				
180	5%	3C1815BH1	820	2%	4C8212BH1	100	5%	3C1015BH3	560	5%	3C5615BH3				
180	2%	3C1812BH1	910	5%	4C9115BH1	100	2%	3C1012BH3	560	2%	3C5612BH3				
200	5%	3C2015BH1	910	2%	4C9112BH1	110	5%	3C1115BH3	620	5%	3C6215BH3				
200	2%	3C2012BH1	1000	10%	4C1029BH1	110	2%	3C1112BH3	620	2%	3C6212BH3				
220	10%	3C2219BH1	1000	5%	4C1025BH1	120	10%	3C1219BH3	680	10%	3C6819BH3				
220	5%	3C2215BH1	1100	5%	4C1125BH1	120	5%	3C1215BH3	680	5%	3C6815BH3				
220	2%	3C2212BH1	1100	2%	4C1122BH1	130	2%	3C1312BH3	680	2%	3C6812BH3				
240	5%	3C2415BH1	1200	10%	4C1229BH1	150	10%	3C1519BH3	750	5%	4C7515BH3				
						150	5%	3C1515BH3	750	2%	4C7512BH3				
									820	10%	4C8219BH3				

SPRAGUE CAPACITORS

MONOLYTHIC[®] CERAMIC CAPACITORS, TYPE 4C RADIAL LEADS (Cont.)

μF	Tol.	Cat. No.	Call Your Sprague Industrial Distributor for Current Prices	μF	Tol.	Cat. No.	Call Your Sprague Industrial Distributor for Current Prices	μF	Tol.	Cat. No.	Call Your Sprague Industrial Distributor for Current Prices
820	5%	4C8215BH3		1300	5%	4C1325BH3		2200	10%	4C2229BH3		3300	2%	4C3322BH3
820	2%	4C8212BH3	1300	2%	4C1322BH3	2200	5%	4C2225BH3	3600	5%	4C3625BH3
910	5%	4C9115BH3	1500	10%	4C1529BH3	2200	2%	4C2222BH3	3600	2%	4C3622BH3
910	2%	4C9112BH3	1500	5%	4C1525BH3	2400	5%	4C2425BH3	3900	10%	4C3929BH3
1000	10%	4C1029BH3	1500	2%	4C1522BH3	2400	2%	4C2422BH3	3900	5%	4C3925BH3
1000	5%	4C1025BH3	1600	5%	4C1625BH3	2700	10%	4C2729BH3	3900	2%	4C3922BH3
1000	2%	4C1022BH3	1600	2%	4C1622BH3	2700	5%	4C2725BH3	4300	5%	4C4325BH3
1100	5%	4C1125BH3	1800	10%	4C1829BH3	2700	2%	4C2722BH3	4300	2%	4C4322BH3
1100	2%	4C1122BH3	1800	5%	4C1825BH3	3000	5%	4C3025BH3	4700	10%	4C4729BH3
1200	10%	4C1229BH3	1800	2%	4C1822BH3	3000	2%	4C3022BH3	4700	5%	4C4725BH3
1200	5%	4C1225BH3	2000	5%	4C2025BH3	3300	10%	4C3329BH3	4700	2%	4C4722BH3
1200	2%	4C1222BH3	2000	2%	4C2022BH3	3300	5%	4C3325BH3	5100	5%	4C5125BH3
									5100	2%	4C5122BH3

TYPE 3C, 4C, 5C Monolythic Ceramic Capacitors—High-K Formulation 023 $\pm 20\%$ Cap. Tol.

μF	VDC	Cat. No.	Call Your Sprague Industrial Distributor for Current Prices	μF	VDC	Cat. No.	Call Your Sprague Industrial Distributor for Current Prices	μF	VDC	Cat. No.	Call Your Sprague Industrial Distributor for Current Prices
RADIAL LEADS				RADIAL LEADS				RADIAL LEADS			
.01	25	3C3	.47	25	4C47	.15	50	5C51	.033	25	3C10
.015	25	3C6	.68	25	4C50	.22	50	5C52	.047	25	3C13
.022	25	3C9	.1	25	5C7	.33	50	5C53	.068	25	3C16
.033	25	3C12	.15	25	5C8	.47	50	5C54	.1	25	3C19
.047	25	3C15	.22	25	5C9	AXIAL LEADS					
.068	25	3C18	.33	25	5C10	.01	25	3C1	.15	25	4C36
.1	25	3C21	.47	25	5C11	.015	25	3C4	.22	25	4C39
.15	25	4C38	.68	25	5C12	.022	25	3C7	.33	25	4C42
.22	25	4C41	1.0	25	5C13						
.33	25	4C44	1.5	25	5C14						
			2.2	25	5C15						
			.1	50	5C50						



HYPERCON[®] CERAMIC DISCS

- Superior to Electrolytic Capacitors of Similar Capacitance Values because of the Very Low Power Factor of Hypercons
- Ultra-miniature Ceramic Discs Ideal for use in Transistorized Circuitry
- Designed for By-pass and Coupling Applications but Particularly Well-suited for any Low Voltage use Where High Capacitance and Low Power Factor are Important Considerations

• Tolerance: $\pm 80-20\%$

μF	Sprague Products Cat. No.	Sprague O.E.M. Part No.	D. x T.	μF	Sprague Products Cat. No.	Sprague O.E.M. Part No.	D. x T.
3 VOLTS D-C				16 VOLTS D-C			
.1	HY-120	54C23	$\frac{1}{4} \times \frac{5}{32}$	.01	HY-420	53C600	$\frac{1}{4} \times \frac{5}{32}$
.22	HY-125	40C322	$\frac{9}{32} \times \frac{5}{32}$	.022	HY-425	19C605	$\frac{7}{16} \times \frac{5}{32}$
.47	HY-130	20C201	$\frac{11}{16} \times \frac{5}{32}$	.033	HY-430	20C604	$\frac{7}{16} \times \frac{5}{32}$
.68	HY-132	55C601	$\frac{1}{2} \times \frac{5}{32}$	.047	HY-435	55C602	$\frac{13}{32} \times \frac{5}{32}$
1.0	HY-135	44C69	$\frac{19}{32} \times \frac{5}{32}$	.068	HY-440	29C602	$\frac{9}{16} \times \frac{5}{32}$
2.2	HY-150	41C171	$\frac{27}{32} \times \frac{5}{32}$	.1	HY-450	33C601	$\frac{1}{16} \times \frac{5}{32}$
10 VOLTS D-C				25 VOLTS D-C			
.047	HY-310	40C235	$\frac{9}{32} \times \frac{5}{32}$	.01	HY-520	19C604	$\frac{9}{32} \times \frac{5}{32}$
.068	HY-315	19C603	$\frac{9}{32} \times \frac{5}{32}$	.022	HY-525	20C603	$\frac{11}{32} \times \frac{5}{32}$
.1	HY-320	20C202	$\frac{13}{32} \times \frac{5}{32}$	.033	HY-530	55C603	$\frac{13}{32} \times \frac{5}{32}$
.22	HY-325	29C365	$\frac{9}{16} \times \frac{5}{32}$	.047	HY-535	29C604	$\frac{1}{2} \times \frac{5}{32}$
.33	HY-327	33C151	$\frac{21}{32} \times \frac{5}{32}$	.068	HY-540	33C602	$\frac{11}{16} \times \frac{5}{32}$
.47	HY-330	41C172	$\frac{27}{32} \times \frac{5}{32}$	.1	HY-550	36C600	$\frac{27}{32} \times \frac{5}{32}$

SPECIAL APPLICATION CERA-MITE[®] DISC CAPACITORS

DISC CERAMICS FOR AC APPLICATIONS

- Rated at 125 VAC
- Standard Tolerance $\pm 20\%$
- For AC Line Bypass Application—Unlike Standard DC Rated Discs. Type 125L Meets 1500 Volt AC Flash Test—Type 125M Meets UL 10KV Discharge Test.
- Call Your Sprague Industrial Distributor for Current Prices

μF	Sprague Products Catalog No.	Sprague O.E.M. Part No.	D. x L.
.001	125L-D10	19C251	$\frac{3}{8} \times \frac{7}{32}$
.0015	125L-D15	19C252	$\frac{3}{8} \times \frac{7}{32}$
.002	125L-D20	19C253	$\frac{3}{8} \times \frac{7}{32}$
.0047	125L-D47	29C145	$\frac{3}{16} \times \frac{7}{32}$
.005	125L-D50	29C145A	$\frac{3}{16} \times \frac{7}{32}$
.01	125L-S10	36C218	$\frac{3}{4} \times \frac{7}{32}$
.02	125L-S20	36C220	$\frac{3}{4} \times \frac{7}{32}$
2 x .005	125L-2D50	29C147	$\frac{9}{16} \times \frac{1}{4}$
2 x .01	125L-2S10	36C219	$\frac{3}{4} \times \frac{7}{32}$
470 μF	125M-T47	20C235	$\frac{7}{16} \times \frac{1}{4}$
.001	125M-D10	20C186	$\frac{7}{16} \times \frac{1}{4}$
.0015	125M-D15	55C45	$\frac{1}{2} \times \frac{1}{4}$
.002	125M-D20	29C304	$\frac{9}{16} \times \frac{1}{4}$
.0047	125M-D47	33C114	$\frac{11}{16} \times \frac{1}{4}$
.005	125M-D50	33C115	$\frac{11}{16} \times \frac{1}{4}$
.01	125M-S10	41C157	$\frac{3}{8} \times \frac{1}{4}$
.02	125M-S20	41C160	$\frac{7}{8} \times \frac{1}{4}$

MINIATURIZED DISC CERAMIC CAPACITORS FOR TRANSISTORIZED CIRCUITRY

- For Coupling and By-Pass Applications

Type TG Standard Tolerance $\pm 20\%$

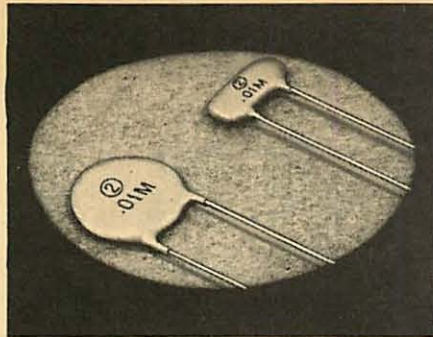
Sprague Products Sprague O.E.M.

μF	Volts	Catalog Number	Part Number	T x D
.005	50	TG-D50	40C172A5	$\frac{1}{8} \times \frac{7}{32}$
.01	50	TG-S10	19C214A6	$\frac{1}{8} \times \frac{11}{32}$
.02	50	TG-S20	55C21A2	$\frac{1}{8} \times \frac{15}{32}$
.025	50	TG-S25	55C22A2	$\frac{1}{8} \times \frac{15}{32}$
.03	50	TG-S30	29C229A	$\frac{1}{8} \times \frac{9}{16}$
.05	50	TG-S50	55C23A1	$\frac{1}{8} \times \frac{1}{2}$
.1	50	TG-P10	33C41A3	$\frac{1}{8} \times \frac{11}{16}$
HIGH K TYPE				
.005	200	TH-D50	19C384	$\frac{5}{32} \times \frac{3}{8}$
.01	200	TH-S10	19C385	$\frac{5}{32} \times \frac{3}{8}$
.02	200	TH-S20	29C371	$\frac{5}{32} \times \frac{9}{16}$
.025	200	TH-S25	44C85	$\frac{5}{32} \times \frac{9}{8}$
.03	200	TH-S30	33C159	$\frac{5}{32} \times \frac{11}{16}$
.05	200	TH-S50	33C160	$\frac{5}{32} \times \frac{11}{16}$
.1	200	TH-P10	41C208	$\frac{5}{32} \times \frac{7}{8}$

Call Your Sprague Industrial Distributor for Current Prices

SPRAGUE CAPACITORS

CERA-MITE® CERAMIC CAPACITORS



- Tiny, Tough, Dependable In Every Application
- Low Self-Inductance Of Silvered Flat-plate Design Means Very High By-pass Efficiency In All TV Circuits
- Flat-plate Construction Permits Higher Self-resonant Frequency Than Tubular Ceramic Or Molded Mica Capacitors
- Tough Moisture-proof Coating Protects Against Short-circuiting And Assures Good Performance Under Severe Conditions Of Humidity And Vibration
- Cera-mite Capacitors Easily Fit Into Tight Spaces, Even Across Subminiature Tube Sockets
- Designed For 85°C (185°F) Continuous Operation
- Call your Sprague Industrial Distributor for Current Quantity Prices
- NOTE: For a Complete Selection of Sprague PRINTED CIRCUITS, see Catalog C-616.

GENERAL APPLICATION TYPES

- Excellent Where Temperature Coefficient Is Not Important, Such As By-pass and Coupling Applications
- Ideal For Replacing Older Types Of General Application Capacitors Such as Molded Micacs, Tubular Ceramics, etc.

μF	Sprague Products Cat. No.	Sprague O.E.M. Part No.	Size T. x W. x L.	μF	Sprague Products Cat. No.	Sprague O.E.M. Part No.	Size D. x T.	μF	Sprague Products Cat. No.	Sprague O.E.M. Part No.	Size D. x T.
500 WVDC (plates) ± 20% Tol.				1000 WVDC (discs) (cont.)				500 WVDC (discs) ± 20% Tol.			
.470	5GAB-T47*	35C11A1	7/32 x 7/32 x 1 1/32	220	5GA-T22	40C204	5/16 x 5/32	.025	5GA-S25	33C57A	1 1/16 x 7/32
.001 μF	5GAB-D10*	35C35	7/32 x 7/32 x 1 1/32	240	5GA-T24	40C167	5/16 x 5/32	.04	5GA-S40	33C24A	1 1/16 x 7/32
.0022	5GAB-D22*	35C34	7/32 x 7/32 x 1 1/32	250	5GA-T25	40C101	5/16 x 5/32	.05	5GA-S50	33C17A	1 1/16 x 7/32
.0047	5GAB-D47*	25C166	7/32 x 7/32 x 9/16	270	5GA-T27	40C93	5/16 x 5/32	.1	5GA-P10	41C92A10	7/8 x 7/32
.01	5GAB-S10	25C167	7/32 x 7/32 x 9/16	300	5GA-T30	40C100	5/16 x 5/32	3000 WVDC (discs) ± 20% Tol.			
.022	5GAB-S22	38C32	7/32 x 7/16 x 1 3/16	330	5GA-T33	40C207	5/16 x 5/32	1.5 μF	30GA-V15	19C306	3/8 x 1/4
.047	5GAB-S47	42C8A	7/32 x 7/32 x 1 1/8	350	5GA-T35	40C146	5/16 x 5/32	3.3	30GA-V33	19C307	3/8 x 1/4
.1	5GAB-P10	42C9A	7/32 x 7/32 x 1 1/8	360	5GA-T36	40C154	5/16 x 5/32	4.7	30GA-V47	19C308	3/8 x 1/4
.15	5GAB-P15	112C9	7/32 x 1 1/32 x 1 5/8	390	5GA-T39	40C95	5/16 x 5/32	5.0	30GA-V50	19C309	3/8 x 1/4
*Axial Leads				400	5GA-T40	40C104	5/16 x 5/32	6.0	30GA-V60	19C310	3/8 x 1/4
1000 WVDC (discs) ± 20% Tol.				470	5GA-T47	40C209A	5/16 x 5/32	6.8	30GA-V68	19C311	3/8 x 1/4
5	5GA-V50	40C32A4	5/16 x 5/32	500	5GA-T50	40C232A	5/16 x 5/32	7.5	30GA-V75	19C291	3/8 x 1/4
6	5GA-V60	40C103	5/16 x 5/32	560	5GA-T56	40C233A	5/16 x 5/32	8.2	30GA-V82	19C290	3/8 x 1/4
7.5	5GA-V75	40C155	5/16 x 5/32	600	5GA-T60	40C305	5/16 x 5/32	10	30GA-Q10	19C312	3/8 x 1/4
8	5GA-V80	40C38A	5/16 x 5/32	680	5GA-T68	40C212A	5/16 x 5/32	12	30GA-Q12	19C313	3/8 x 1/4
10	5GA-Q10	40C67A	5/16 x 5/32	750	5GA-T75	40C235A	5/16 x 5/32	15	30GA-Q15	19C314	3/8 x 1/4
12	5GA-Q12	40C138	5/16 x 5/32	800	5GA-T80	40C213A	5/16 x 5/32	18	30GA-Q18	19C292	3/8 x 1/4
15	5GA-Q15	40C65A	5/16 x 5/32	820	5GA-T82	40C237A	5/16 x 5/32	20	30GA-Q20	19C315	3/8 x 1/4
18	5GA-Q18	40C132A	5/16 x 5/32	.001 μF	5GA-D10	40C214A	5/16 x 5/32	22	30GA-Q22	19C316	3/8 x 1/4
20	5GA-Q20	40C114	5/16 x 5/32	.0012	5GA-D12	40C239A	5/16 x 5/32	25	30GA-Q25	19C317	3/8 x 1/4
22	5GA-Q22	40C16A2	5/16 x 5/32	.0013	5GA-D13	40C261	5/16 x 5/32	27	30GA-Q27	19C318	3/8 x 1/4
25	5GA-Q25	40C113A1	5/16 x 5/32	.0015	5GA-D15	40C215A	5/16 x 5/32	30	30GA-Q30	19C319	3/8 x 1/4
27	5GA-Q27	40C153	5/16 x 5/32	.0016	5GA-D16	19C301	3/8 x 5/32	33	30GA-Q33	19C320	3/8 x 1/4
30	5GA-Q30	40C111A	5/16 x 5/32	.0018	5GA-D18	19C217A	3/8 x 5/32	39	30GA-Q39	19C321	3/8 x 1/4
33	5GA-Q33	40C42A	5/16 x 5/32	.002	5GA-D20	19C203A	3/8 x 5/32	47	30GA-Q47	19C322	3/8 x 1/4
39	5GA-Q39	40C43A	5/16 x 5/32	.0022	5GA-D22	19C219A	3/8 x 5/32	50	30GA-Q50	19C323	3/8 x 1/4
47	5GA-Q47	40C44A	5/16 x 5/32	.0025	5GA-D25	20C179	7/16 x 5/32	56	30GA-Q56	19C324	3/8 x 1/4
50	5GA-Q50	40C89	5/16 x 5/32	.0027	5GA-D27	20C143A	7/16 x 5/32	60	30GA-Q60	19C325	3/8 x 1/4
56	5GA-Q56	40C130A3	5/16 x 5/32	.003	5GA-D30	20C101A1	7/16 x 5/32	62	30GA-Q62	19C326	3/8 x 1/4
68	5GA-Q68	40C45A	5/16 x 5/32	.0033	5GA-D33	20C124A	7/16 x 5/32	68	30GA-Q68	19C327	3/8 x 1/4
75	5GA-Q75	40C46A	5/16 x 5/32	.0039	5GA-D39	20C126A	7/16 x 5/32	75	30GA-Q75	19C328	3/8 x 1/4
82	5GA-Q82	40C47A	5/16 x 5/32	.004	5GA-D40	29C192A	7/16 x 5/32	82	30GA-Q82	20C184	7/16 x 1/4
91	5GA-Q91	40C112	5/16 x 5/32	.0043	5GA-D43	29C292	7/16 x 5/32	100	30GA-T10	20C43	7/16 x 1/4
100	5GA-T10	40C200	5/16 x 5/32	.0047	5GA-D47	29C203A	7/16 x 5/32	120	30GA-T12	20C44	7/16 x 1/4
120	5GA-T12	40C91	5/16 x 5/32	.005	5GA-D50	29C204A	7/16 x 5/32	150	30GA-T15	20C45	7/16 x 1/4
130	5GA-T13	40C147	5/16 x 5/32	.01	5GA-S10	33C29A	1 1/16 x 5/32	180	30GA-T18	20C46	7/16 x 1/4
150	5GA-T15	40C202	5/16 x 5/32	.015	5GA-S15	36C263	3/4 x 5/32	200	30GA-T20	20C47	7/16 x 1/4
180	5GA-T18	40C99	5/16 x 5/32	.02	5GA-S20	41C135A1	7/8 x 5/32				

SPRAGUE CAPACITORS

CERA-MITE CERAMIC CAPACITORS, continued

$\mu\mu\text{F}$	Sprague Products Cat. No.	Sprague O.E.M. Part No.	Size D. x T.	$\mu\mu\text{F}$	Sprague Products Cat. No.	Sprague O.E.M. Part No.	Size D. x T.	$\mu\mu\text{F}$	Sprague Products Cat. No.	Sprague O.E.M. Part No.	Size D. x T.
3000 WVDC (cont.)				6000 WVDC (cont.)				7500 WVDC (discs $\pm 20\%$ Tol.)			
220	30GA-T22	20C48	$\frac{7}{16} \times \frac{1}{4}$	250	60GA-T25	33C191	$1\frac{1}{16} \times \frac{5}{16}$	4.7	75GA-V47	29C387	$\frac{9}{16} \times \frac{5}{16}$
250	30GA-T25	20C49	$\frac{7}{16} \times \frac{1}{4}$	270	60GA-T27	33C192	$1\frac{1}{16} \times \frac{5}{16}$	8.2	75GA-V82	29C380	$\frac{9}{16} \times \frac{5}{16}$
270	30GA-T27	20C50	$\frac{7}{16} \times \frac{1}{4}$	300	60GA-T30	36C265	$\frac{3}{4} \times \frac{5}{16}$	10	75GA-Q10	29C382	$\frac{9}{16} \times \frac{5}{16}$
300	30GA-T30	20C51	$\frac{7}{16} \times \frac{1}{4}$	330	60GA-T33	36C266	$\frac{3}{4} \times \frac{5}{16}$	12	75GA-Q12	29C383	$\frac{9}{16} \times \frac{5}{16}$
330	30GA-T33	20C28A	$\frac{7}{16} \times \frac{1}{4}$	390	60GA-T39	41C9A1	$\frac{7}{8} \times \frac{5}{16}$	15	75GA-Q15	29C378	$\frac{9}{16} \times \frac{5}{16}$
390	30GA-T39	20C176	$\frac{7}{16} \times \frac{1}{4}$	400	60GA-T40	41C142	$\frac{7}{8} \times \frac{5}{16}$	18	75GA-Q18	29C379	$\frac{9}{16} \times \frac{5}{16}$
400	30GA-T40	20C175	$\frac{7}{16} \times \frac{1}{4}$	470	60GA-T47	41C80A1	$\frac{7}{8} \times \frac{5}{16}$	20	75GA-Q20	29C405	$\frac{9}{16} \times \frac{5}{16}$
470	30GA-T47	29C289	$1\frac{1}{32} \times \frac{1}{4}$	500	60GA-T50	33C185	$1\frac{1}{16} \times \frac{5}{16}$	22	75GA-Q22	29C118A	$\frac{9}{16} \times \frac{5}{16}$
500	30GA-T50	29C90	$1\frac{1}{32} \times \frac{1}{4}$	560	60GA-T56	33C186	$1\frac{1}{16} \times \frac{5}{16}$	30	75GA-Q30	29C418A	$\frac{9}{16} \times \frac{5}{16}$
560	30GA-T56	29C290	$1\frac{1}{32} \times \frac{1}{4}$	680	60GA-T68	33C107	$1\frac{1}{16} \times \frac{5}{16}$	33	75GA-Q33	29C419A	$\frac{9}{16} \times \frac{5}{16}$
680	30GA-T68	29C288	$1\frac{1}{32} \times \frac{1}{4}$	750	60GA-T75	33C108	$1\frac{1}{16} \times \frac{5}{16}$	47	75GA-Q47	29C381	$\frac{9}{16} \times \frac{5}{16}$
750	30GA-T75	29C298	$1\frac{1}{32} \times \frac{1}{4}$	820	60GA-T82	33C109	$1\frac{1}{16} \times \frac{5}{16}$	56	75GA-Q56	29C30A	$\frac{9}{16} \times \frac{5}{16}$
820	30GA-T82	29C299	$1\frac{1}{32} \times \frac{1}{4}$					100	75GA-T10	33C56A2	$1\frac{1}{16} \times \frac{5}{16}$
.001 μF	30GA-D10	29C300	$1\frac{1}{32} \times \frac{1}{4}$	.001 μF	60GA-D10	33C90A	$1\frac{1}{16} \times \frac{5}{16}$	220	75GA-T22	33C224	$1\frac{1}{16} \times \frac{5}{16}$
.0012	30GA-D12	29C301	$1\frac{1}{32} \times \frac{1}{4}$	.0012	60GA-D12	33C101	$1\frac{1}{16} \times \frac{5}{16}$	470	75GA-T47	33C169	$1\frac{1}{16} \times \frac{5}{16}$
.0015	30GA-D15	29C302	$1\frac{1}{32} \times \frac{1}{4}$	.0015	60GA-D15	36C253A	$\frac{3}{4} \times \frac{5}{16}$	500	75GA-T50	44C89	$2\frac{1}{32} \times \frac{5}{16}$
.002	30GA-D20	29C303	$1\frac{1}{32} \times \frac{1}{4}$	.0022	60GA-D22	41C152	$\frac{7}{8} \times \frac{5}{16}$	560	75GA-T56	44C90	$2\frac{1}{32} \times \frac{5}{16}$
.0022	30GA-D22	29C255A	$1\frac{1}{32} \times \frac{1}{4}$	.0025	60GA-D25	41C250	$\frac{7}{8} \times \frac{5}{16}$	680	75GA-T68	44C92	$2\frac{1}{32} \times \frac{5}{16}$
.0025	30GA-D25	44C63	$2\frac{1}{32} \times \frac{1}{4}$	.0027	60GA-D27	41C251	$\frac{7}{8} \times \frac{5}{16}$	750	75GA-T75	33C175	$1\frac{1}{16} \times \frac{5}{16}$
.0027	30GA-D27	44C65	$2\frac{1}{32} \times \frac{1}{4}$	.003	60GA-D30	41C252	$\frac{7}{8} \times \frac{5}{16}$	820	75GA-T82	33C177	$1\frac{1}{16} \times \frac{5}{16}$
.003	30GA-D30	33C31A1	$1\frac{1}{16} \times \frac{1}{4}$	.0033	60GA-D33	41C253	$\frac{7}{8} \times \frac{5}{16}$	.001 μF	75GA-D10	33C178	$1\frac{1}{16} \times \frac{5}{16}$
.0033	30GA-D33	33C32A2	$1\frac{1}{16} \times \frac{1}{4}$	.0039	60GA-D39	41C254	$\frac{7}{8} \times \frac{5}{16}$	.0012	75GA-D12	36C334	$\frac{3}{4} \times \frac{5}{16}$
.0039	30GA-D39	36C155A	$2\frac{1}{32} \times \frac{1}{4}$	.0047	60GA-D47	41C255	$\frac{7}{8} \times \frac{5}{16}$	.0015	75GA-D15	41C221	$\frac{7}{8} \times \frac{5}{16}$
.004	30GA-D40	36C78A	$2\frac{1}{32} \times \frac{1}{4}$					.0018	75GA-D18	41C223	$\frac{7}{8} \times \frac{5}{16}$
.0047	30GA-D47	36C339	$2\frac{1}{32} \times \frac{1}{4}$					.002	75GA-D20	41C224	$\frac{7}{8} \times \frac{5}{16}$
.005	30GA-D50	36C124A	$2\frac{1}{32} \times \frac{1}{4}$					.0022	75GA-D22	41C225	$\frac{7}{8} \times \frac{5}{16}$
.006	30GA-D60	41C34A	$2\frac{1}{32} \times \frac{1}{4}$					.0025	75GA-D25	41C226	$\frac{7}{8} \times \frac{5}{16}$
.0068	30GA-D68	41C153	$\frac{8}{32} \times \frac{1}{4}$								
.008	30GA-D80	41C151	$2\frac{1}{32} \times \frac{1}{4}$								
.0082	30GA-D82	41C150	$2\frac{1}{32} \times \frac{1}{4}$								
.01	30GA-S10	41C121A2	$2\frac{1}{32} \times \frac{1}{4}$								

NPO TYPES

- Zero Temperature-coefficient Capacitors Used Where Capacitance Change with Temperature is Undesirable
- Superior to Silvered-mica Types in Stability, High "Q," and Insulation Resistance
- Rated at **1000 WVDC**
- Standard Capacitance Tolerance of $\pm 5\%$
- Units listed below are discs

6000 WVDC (discs) $\pm 20\%$ Tol.

$\mu\mu\text{F}$	Sprague Products Cat. No.	Sprague O.E.M. Part No.	Size D. x T.
1.5	60GA-V15	29C406	$\frac{9}{16} \times \frac{5}{16}$
4.7	60GA-V47	29C407	$\frac{9}{16} \times \frac{5}{16}$
6.8	60GA-V68	29C408	$\frac{9}{16} \times \frac{5}{16}$
8.2	60GA-V82	29C409	$\frac{9}{16} \times \frac{5}{16}$
10	60GA-Q10	29C410	$\frac{9}{16} \times \frac{5}{16}$
12	60GA-Q12	29C411	$\frac{9}{16} \times \frac{5}{16}$
15	60GA-Q15	29C412	$\frac{9}{16} \times \frac{5}{16}$
18	60GA-Q18	29C413	$\frac{9}{16} \times \frac{5}{16}$
20	60GA-Q20	29C414	$\frac{9}{16} \times \frac{5}{16}$
22	60GA-Q22	29C415	$\frac{9}{16} \times \frac{5}{16}$
25	60GA-Q25	29C416	$\frac{9}{16} \times \frac{5}{16}$
27	60GA-Q27	29C417	$\frac{9}{16} \times \frac{5}{16}$
30	60GA-Q30	29C418	$\frac{9}{16} \times \frac{5}{16}$
33	60GA-Q33	29C419	$\frac{9}{16} \times \frac{5}{16}$
39	60GA-Q39	29C420	$\frac{9}{16} \times \frac{5}{16}$
47	60GA-Q47	29C421	$\frac{9}{16} \times \frac{5}{16}$
50	60GA-Q50	29C422	$\frac{9}{16} \times \frac{5}{16}$
56	60GA-Q56	29C423	$\frac{9}{16} \times \frac{5}{16}$
60	60GA-Q60	29C424	$\frac{9}{16} \times \frac{5}{16}$
68	60GA-Q68	29C425	$\frac{9}{16} \times \frac{5}{16}$
75	60GA-Q75	29C426	$\frac{9}{16} \times \frac{5}{16}$
82	60GA-Q82	29C427	$\frac{9}{16} \times \frac{5}{16}$
100	60GA-T10	29C428	$\frac{9}{16} \times \frac{5}{16}$
120	60GA-T12	29C429	$\frac{9}{16} \times \frac{5}{16}$
150	60GA-T15	33C187	$1\frac{1}{16} \times \frac{5}{16}$
180	60GA-T18	33C188	$1\frac{1}{16} \times \frac{5}{16}$
200	60GA-T20	33C189	$1\frac{1}{16} \times \frac{5}{16}$
220	60GA-T22	33C190	$1\frac{1}{16} \times \frac{5}{16}$

$\mu\mu\text{F}$	Sprague Products Cat. No.	Sprague O.E.M. Part No.	Size D. x T.	$\mu\mu\text{F}$	Sprague Products Cat. No.	Sprague O.E.M. Part No.	Size D. x T.
1.0	10TCC-V10	40C436	$\frac{5}{16} \times \frac{5}{32}$	30	10TCC-Q30	20C258	$\frac{7}{16} \times \frac{5}{32}$
1.2	10TCC-V12	40C437	$\frac{5}{16} \times \frac{5}{32}$	33	10TCC-Q33	20C263	$\frac{7}{16} \times \frac{5}{32}$
1.5	10TCC-V15	40C438	$\frac{5}{16} \times \frac{5}{32}$	39	10TCC-Q39	20C265	$\frac{7}{16} \times \frac{5}{32}$
1.8	10TCC-V18	40C439	$\frac{5}{16} \times \frac{5}{32}$	47	10TCC-Q47	29C14	$\frac{9}{16} \times \frac{5}{32}$
2.2	10TCC-V22	40C311	$\frac{5}{16} \times \frac{5}{32}$	50	10TCC-Q50	29C47	$\frac{9}{16} \times \frac{5}{32}$
2.7	10TCC-V27	40C309	$\frac{5}{16} \times \frac{5}{32}$	56	10TCC-Q56	29C437	$\frac{9}{16} \times \frac{5}{32}$
3.0	10TCC-V30	40C460	$\frac{5}{16} \times \frac{5}{32}$	68	10TCC-Q68	29C439	$\frac{9}{16} \times \frac{5}{32}$
3.3	10TCC-V33	40C478	$\frac{5}{16} \times \frac{5}{32}$	75	10TCC-Q75	29C469	$\frac{9}{16} \times \frac{5}{32}$
3.9	10TCC-V39	40C310	$\frac{5}{16} \times \frac{5}{32}$	82	10TCC-Q82	33C94	$1\frac{1}{16} \times \frac{5}{32}$
4.7	10TCC-V47	40C298	$\frac{5}{16} \times \frac{5}{32}$	100	10TCC-T10	33C208	$1\frac{1}{16} \times \frac{5}{32}$
5.0	10TCC-V50	40C479	$\frac{5}{16} \times \frac{5}{32}$	120	10TCC-T12	33C194	$1\frac{1}{16} \times \frac{5}{32}$
5.6	10TCC-V56	40C297	$\frac{5}{16} \times \frac{5}{32}$	150	10TCC-T15	36C336	$\frac{3}{4} \times \frac{5}{32}$
6.8	10TCC-V68	40C487	$\frac{5}{16} \times \frac{5}{32}$	175	10TCC-T175	41C258	$\frac{7}{8} \times \frac{7}{32}$
8.2	10TCC-V82	40C492	$\frac{5}{16} \times \frac{5}{32}$	180	10TCC-T18	41C259	$\frac{7}{8} \times \frac{7}{32}$
10	10TCC-Q10	40C497	$\frac{5}{16} \times \frac{5}{32}$	200	10TCC-T20	41C260	$\frac{7}{8} \times \frac{7}{32}$
12	10TCC-Q12	40C502	$\frac{5}{16} \times \frac{5}{32}$	220	10TCC-T22	33C182	$1\frac{1}{16} \times \frac{5}{32}$
15	10TCC-Q15	40C507	$\frac{5}{16} \times \frac{5}{32}$	270	10TCC-T27	36C27A2	$\frac{3}{4} \times \frac{5}{32}$
18	10TCC-Q18	19C407	$\frac{3}{8} \times \frac{5}{32}$	300	10TCC-T30	36C337	$\frac{3}{4} \times \frac{5}{32}$
20	10TCC-Q20	19C57	$\frac{3}{8} \times \frac{5}{32}$	330	10TCC-T33	41C145	$\frac{7}{8} \times \frac{7}{32}$
22	10TCC-Q22	19C411	$\frac{3}{8} \times \frac{5}{32}$	390	10TCC-T39	41C272	$\frac{7}{8} \times \frac{7}{32}$
25	10TCC-Q25	19C412	$\frac{3}{8} \times \frac{5}{32}$				
27	10TCC-Q27	20C257	$\frac{7}{16} \times \frac{5}{32}$				

SPRAGUE CAPACITORS

CERA-MITE CERAMIC CAPACITORS, continued

TEMPERATURE-COMPENSATING TYPES

- Eliminate oscillator drift in TV, f-m, v-h-f, and a-m receivers
- Negative Temperature Coefficient is 30 ppm/°C for N030 types, 80 ppm/°C for N080 types, 150 ppm/°C for N150 types, 220 ppm/°C for N220 types, 330 ppm/°C for N330 types, 470 ppm/°C for N470 types, and 750 ppm/°C for N750 types
- Rated at **1000 WVDC** ● Standard Capacitance Tolerance $\pm 5\%$

μF	Sprague Products Cat. No.	Sprague O. E. M. Part No.	Size D. x T.	μF	Sprague Products Cat. No.	Sprague O. E. M. Part No.	Size D. x T.
N030				N080 (cont.)			
1.0	10TCM-V10	40C440	$\frac{5}{16} \times \frac{5}{32}$	30	10TCN-Q30	20C261	$\frac{7}{16} \times \frac{5}{32}$
1.2	10TCM-V12	40C441	$\frac{5}{16} \times \frac{5}{32}$	33	10TCN-Q33	20C239	$\frac{7}{16} \times \frac{5}{32}$
1.5	10TCM-V15	40C442	$\frac{5}{16} \times \frac{5}{32}$	39	10TCN-Q39	20C267	$\frac{7}{16} \times \frac{5}{32}$
1.8	10TCM-V18	40C443	$\frac{5}{16} \times \frac{5}{32}$	47	10TCN-Q47	29C390	$\frac{7}{16} \times \frac{5}{32}$
2.2	10TCM-V22	40C444	$\frac{5}{16} \times \frac{5}{32}$	50	10TCN-Q50	29C457	$\frac{7}{16} \times \frac{5}{32}$
2.7	10TCM-V27	40C445	$\frac{5}{16} \times \frac{5}{32}$	56	10TCN-Q56	29C391	$\frac{7}{16} \times \frac{5}{32}$
3.0	10TCM-V30	40C446	$\frac{5}{16} \times \frac{5}{32}$	68	10TCN-Q68	29C392	$\frac{7}{16} \times \frac{5}{32}$
3.3	10TCM-V33	40C447	$\frac{5}{16} \times \frac{5}{32}$	75	10TCN-Q75	29C445	$\frac{7}{16} \times \frac{5}{32}$
3.9	10TCM-V39	40C448	$\frac{5}{16} \times \frac{5}{32}$	82	10TCN-Q82	29C393	$\frac{7}{16} \times \frac{5}{32}$
4.7	10TCM-V47	40C412	$\frac{5}{16} \times \frac{5}{32}$	100	10TCN-T10	33C179	$\frac{1}{16} \times \frac{5}{32}$
5.0	10TCM-V50	40C413	$\frac{5}{16} \times \frac{5}{32}$	120	10TCN-T12	33C212	$\frac{1}{16} \times \frac{5}{32}$
5.6	10TCM-V56	40C414	$\frac{5}{16} \times \frac{5}{32}$	150	10TCN-T15	33C195	$\frac{1}{16} \times \frac{5}{32}$
6.8	10TCM-V68	40C415	$\frac{5}{16} \times \frac{5}{32}$	175	10TCN-T175	41C242	$\frac{7}{8} \times \frac{7}{32}$
8.2	10TCM-V82	40C416	$\frac{5}{16} \times \frac{5}{32}$	180	10TCN-T18	41C239	$\frac{7}{8} \times \frac{7}{32}$
10	10TCM-Q10	40C417	$\frac{5}{16} \times \frac{5}{32}$	200	10TCN-T20	41C265	$\frac{7}{8} \times \frac{7}{32}$
12	10TCM-Q12	40C418	$\frac{5}{16} \times \frac{5}{32}$	220	10TCN-T22	41C240	$\frac{7}{8} \times \frac{7}{32}$
15	10TCM-Q15	40C508	$\frac{5}{16} \times \frac{5}{32}$	270	10TCN-T27	33C219	$\frac{1}{16} \times \frac{5}{32}$
18	10TCM-Q18	19C394	$\frac{3}{8} \times \frac{5}{32}$	300	10TCN-T30	33C197	$\frac{1}{16} \times \frac{5}{32}$
20	10TCM-Q20	19C408	$\frac{3}{8} \times \frac{5}{32}$	330	10TCN-T33	36C325	$\frac{3}{4} \times \frac{5}{32}$
22	10TCM-Q22	19C395	$\frac{3}{8} \times \frac{5}{32}$	390	10TCN-T39	41C274	$\frac{7}{8} \times \frac{7}{32}$
25	10TCM-Q25	19C413	$\frac{3}{8} \times \frac{5}{32}$	470	10TCN-T47	41C222	$\frac{7}{8} \times \frac{7}{32}$
27	10TCM-Q27	20C240	$\frac{7}{16} \times \frac{5}{32}$	N150			
30	10TCM-Q30	20C259	$\frac{7}{16} \times \frac{5}{32}$	2.2	10TCP-V22	40C458	$\frac{5}{16} \times \frac{5}{32}$
33	10TCM-Q33	20C241	$\frac{7}{16} \times \frac{5}{32}$	2.7	10TCP-V27	40C450	$\frac{5}{16} \times \frac{5}{32}$
39	10TCM-Q39	20C266	$\frac{7}{16} \times \frac{5}{32}$	3.0	10TCP-V30	40C451	$\frac{5}{16} \times \frac{5}{32}$
47	10TCM-Q47	29C395	$\frac{7}{16} \times \frac{5}{32}$	3.3	10TCP-V33	40C452	$\frac{5}{16} \times \frac{5}{32}$
50	10TCM-Q50	29C456	$\frac{7}{16} \times \frac{5}{32}$	3.9	10TCP-V39	40C453	$\frac{5}{16} \times \frac{5}{32}$
56	10TCM-Q56	29C396	$\frac{7}{16} \times \frac{5}{32}$	4.7	10TCP-V47	40C454	$\frac{5}{16} \times \frac{5}{32}$
68	10TCM-Q68	29C397	$\frac{7}{16} \times \frac{5}{32}$	5.0	10TCP-V50	40C480	$\frac{5}{16} \times \frac{5}{32}$
75	10TCM-Q75	29C444	$\frac{7}{16} \times \frac{5}{32}$	5.6	10TCP-V56	40C483	$\frac{5}{16} \times \frac{5}{32}$
82	10TCM-Q82	33C180	$\frac{1}{16} \times \frac{5}{32}$	6.8	10TCP-V68	40C488	$\frac{5}{16} \times \frac{5}{32}$
100	10TCM-T10	33C181	$\frac{1}{16} \times \frac{5}{32}$	8.2	10TCP-V82	40C493	$\frac{5}{16} \times \frac{5}{32}$
120	10TCM-T12	33C211	$\frac{1}{16} \times \frac{5}{32}$	10	10TCP-Q10	40C498	$\frac{5}{16} \times \frac{5}{32}$
150	10TCM-T15	36C327	$\frac{3}{4} \times \frac{5}{32}$	12	10TCP-Q12	40C503	$\frac{5}{16} \times \frac{5}{32}$
175	10TCM-T175	41C247	$\frac{3}{4} \times \frac{5}{32}$	15	10TCP-Q15	40C510	$\frac{5}{16} \times \frac{5}{32}$
180	10TCM-T18	41C263	$\frac{3}{4} \times \frac{5}{32}$	18	10TCP-Q18	40C514	$\frac{5}{16} \times \frac{5}{32}$
200	10TCM-T20	41C264	$\frac{3}{4} \times \frac{5}{32}$	20	10TCP-Q20	19C410	$\frac{3}{8} \times \frac{5}{32}$
220	10TCM-T22	41C243	$\frac{3}{4} \times \frac{5}{32}$	22	10TCP-Q22	19C245A	$\frac{3}{8} \times \frac{5}{32}$
270	10TCM-T27	33C196	$\frac{1}{16} \times \frac{5}{32}$	25	10TCP-Q25	19C414	$\frac{3}{8} \times \frac{5}{32}$
300	10TCM-T30	36C308	$\frac{3}{4} \times \frac{5}{32}$	27	10TCP-Q27	19C417	$\frac{3}{8} \times \frac{5}{32}$
330	10TCM-T33	41C244	$\frac{7}{8} \times \frac{7}{32}$	30	10TCP-Q30	19C345	$\frac{3}{8} \times \frac{5}{32}$
390	10TCM-T39	41C273	$\frac{7}{8} \times \frac{7}{32}$	33	10TCP-Q33	20C264	$\frac{7}{16} \times \frac{5}{32}$
N080				39	10TCP-Q39	20C268	$\frac{7}{16} \times \frac{5}{32}$
2.2	10TCN-V22	40C457	$\frac{5}{16} \times \frac{5}{32}$	47	10TCP-Q47	20C271	$\frac{7}{16} \times \frac{5}{32}$
2.7	10TCN-V27	40C459	$\frac{5}{16} \times \frac{5}{32}$	50	10TCP-Q50	20C273	$\frac{7}{16} \times \frac{5}{32}$
3.0	10TCN-V30	40C461	$\frac{5}{16} \times \frac{5}{32}$	56	10TCP-Q56	29C438	$\frac{7}{16} \times \frac{5}{32}$
3.3	10TCN-V33	40C464	$\frac{5}{16} \times \frac{5}{32}$	68	10TCP-Q68	29C440	$\frac{7}{16} \times \frac{5}{32}$
3.9	10TCN-V39	40C468	$\frac{5}{16} \times \frac{5}{32}$	75	10TCP-Q75	29C446	$\frac{7}{16} \times \frac{5}{32}$
4.7	10TCN-V47	40C404	$\frac{5}{16} \times \frac{5}{32}$	82	10TCP-Q82	29C449	$\frac{7}{16} \times \frac{5}{32}$
5.0	10TCN-V50	40C405	$\frac{5}{16} \times \frac{5}{32}$	100	10TCP-T10	33C59A	$\frac{1}{16} \times \frac{5}{32}$
5.6	10TCN-V56	40C406	$\frac{5}{16} \times \frac{5}{32}$	120	10TCP-T12	33C213	$\frac{1}{16} \times \frac{5}{32}$
6.8	10TCN-V68	40C407	$\frac{5}{16} \times \frac{5}{32}$	150	10TCP-T15	33C215	$\frac{1}{16} \times \frac{5}{32}$
8.2	10TCN-V82	40C408	$\frac{5}{16} \times \frac{5}{32}$	175	10TCP-T175	36C322	$\frac{3}{4} \times \frac{5}{32}$
10	10TCN-Q10	40C409	$\frac{5}{16} \times \frac{5}{32}$	180	10TCP-T18	36C314	$\frac{3}{4} \times \frac{5}{32}$
12	10TCN-Q12	40C411	$\frac{5}{16} \times \frac{5}{32}$	200	10TCP-T20	41C266	$\frac{7}{8} \times \frac{7}{32}$
15	10TCN-Q15	40C509	$\frac{5}{16} \times \frac{5}{32}$	220	10TCP-T22	41C229	$\frac{7}{8} \times \frac{7}{32}$
18	10TCN-Q18	19C391	$\frac{3}{8} \times \frac{5}{32}$	270	10TCP-T27	33C220	$\frac{1}{16} \times \frac{5}{32}$
20	10TCN-Q20	19C409	$\frac{3}{8} \times \frac{5}{32}$	300	10TCP-T30	33C221	$\frac{1}{16} \times \frac{5}{32}$
22	10TCN-Q22	19C392	$\frac{3}{8} \times \frac{5}{32}$	330	10TCP-T33	36C315	$\frac{3}{4} \times \frac{5}{32}$
25	10TCN-Q25	19C390	$\frac{3}{8} \times \frac{5}{32}$	390	10TCP-T39	41C231	$\frac{7}{8} \times \frac{7}{32}$
27	10TCN-Q27	19C416	$\frac{3}{8} \times \frac{5}{32}$	470	10TCP-T47	41C275	$\frac{7}{8} \times \frac{7}{32}$

μF	Sprague Products Cat. No.	Sprague O. E. M. Part No.	Size D. x T.
N220			
3	10TCR-V30	40C462	$\frac{5}{16} \times \frac{5}{32}$
3.3	10TCR-V33	40C465	$\frac{5}{16} \times \frac{5}{32}$
3.9	10TCR-V39	40C469	$\frac{5}{16} \times \frac{5}{32}$
4.7	10TCR-V47	40C475	$\frac{5}{16} \times \frac{5}{32}$
5	10TCR-V50	40C455	$\frac{5}{16} \times \frac{5}{32}$
5.6	10TCR-V56	40C484	$\frac{5}{16} \times \frac{5}{32}$
6.8	10TCR-V68	40C489	$\frac{5}{16} \times \frac{5}{32}$
8.2	10TCR-V82	40C494	$\frac{5}{16} \times \frac{5}{32}$
10	10TCR-Q10	40C499	$\frac{5}{16} \times \frac{5}{32}$
12	10TCR-Q12	40C504	$\frac{5}{16} \times \frac{5}{32}$
15	10TCR-Q15	40C511	$\frac{5}{16} \times \frac{5}{32}$
18	10TCR-Q18	40C515	$\frac{5}{16} \times \frac{5}{32}$
20	10TCR-Q20	40C449	$\frac{5}{16} \times \frac{5}{32}$
22	10TCR-Q22	19C256A1	$\frac{3}{8} \times \frac{5}{32}$
25	10TCR-Q25	19C393	$\frac{3}{8} \times \frac{5}{32}$
27	10TCR-Q27	19C418	$\frac{3}{8} \times \frac{5}{32}$
30	10TCR-Q30	19C421	$\frac{3}{8} \times \frac{5}{32}$
33	10TCR-Q33	19C424	$\frac{3}{8} \times \frac{5}{32}$
39	10TCR-Q39	20C269	$\frac{7}{16} \times \frac{5}{32}$
47	10TCR-Q47	20C249	$\frac{7}{16} \times \frac{5}{32}$
50	10TCR-Q50	20C251	$\frac{7}{16} \times \frac{5}{32}$
56	10TCR-Q56	20C279	$\frac{7}{16} \times \frac{5}{32}$
68	10TCR-Q68	29C441	$\frac{7}{16} \times \frac{5}{32}$
75	10TCR-Q75	29C394	$\frac{7}{16} \times \frac{5}{32}$
82	10TCR-Q82	29C398	$\frac{7}{16} \times \frac{5}{32}$
100	10TCR-T10	29C401	$\frac{7}{16} \times \frac{5}{32}$
120	10TCR-T12	33C214	$\frac{1}{16} \times \frac{5}{32}$
150	10TCR-T15	33C198	$\frac{1}{16} \times \frac{5}{32}$
175	10TCR-T175	36C324	$\frac{3}{4} \times \frac{5}{32}$
180	10TCR-T18	36C319	$\frac{3}{4} \times \frac{5}{32}$
200	10TCR-T20	36C323	$\frac{3}{4} \times \frac{5}{32}$
220	10TCR-T22	41C236	$\frac{7}{8} \times \frac{7}{32}$
270	10TCR-T27	41C237	$\frac{7}{8} \times \frac{7}{32}$
300	10TCR-T30	41C230	$\frac{7}{8} \times \frac{7}{32}$
330	10TCR-T33	33C199	$\frac{1}{16} \times \frac{5}{32}$
390	10TCR-T39	36C321	$\frac{3}{4} \times \frac{5}{32}$
470	10TCR-T47	41C235	$\frac{7}{8} \times \frac{7}{32}$
560	10TCR-T56	41C277	$\frac{7}{8} \times \frac{7}{32}$

μF	Sprague Products Cat. No.	Sprague O. E. M. Part No.	Size D. x T.
N330			
3.0	10TCS-V30	40C456	$\frac{5}{16} \times \frac{5}{32}$
3.3	10TCS-V33	40C466	$\frac{5}{16} \times \frac{5}{32}$
3.9	10TCS-V39	40C470	$\frac{5}{16} \times \frac{5}{32}$
4.7	10TCS-V47	40C476	$\frac{5}{16} \times \frac{5}{32}$
5.0	10TCS-V50	40C481	$\frac{5}{16} \times \frac{5}{32}$
5.6	10TCS-V56	40C485	$\frac{5}{16} \times \frac{5}{32}$
6.8	10TCS-V68	40C490	$\frac{5}{16} \times \frac{5}{32}$
8.2	10TCS-V82	40C495	$\frac{5}{16} \times \frac{5}{32}$
10	10TCS-Q10	40C500	$\frac{5}{16} \times \frac{5}{32}$
12	10TCS-Q12	40C505	$\frac{5}{16} \times \frac{5}{32}$
15	10TCS-Q15	40C512	$\frac{5}{16} \times \frac{5}{32}$
18	10TCS-Q18	40C516	$\frac{5}{16} \times \frac{5}{32}$
20	10TCS-Q20	40C518	$\frac{5}{16} \times \frac{5}{32}$
22	10TCS-Q22	40C522	$\frac{5}{16} \times \frac{5}{32}$
25	10TCS-Q25	19C415	$\frac{3}{8} \times \frac{5}{32}$
27	10TCS-Q27	19C419	$\frac{3}{8} \times \frac{5}{32}$
30	10TCS-Q30	19C422	$\frac{3}{8} \times \frac{5}{32}$
33	10TCS-Q33	19C425	$\frac{3}{8} \times \frac{5}{32}$
39	10TCS-Q39	20C270	$\frac{7}{16} \times \frac{5}{32}$
47	10TCS-Q47	20C252	$\frac{7}{16} \times \frac{5}{32}$
50	10TCS-Q50	20C274	$\frac{7}{16} \times \frac{5}{32}$
56	10TCS-Q56	20C277	$\frac{7}{16} \times \frac{5}{32}$
68	10TCS-Q68	29C442	$\frac{7}{16} \times \frac{5}{32}$
75	10TCS-Q75	29C447	$\frac{7}{16} \times \frac{5}{32}$
82	10TCS-Q82	29C450	$\frac{7}{16} \times \frac{5}{32}$
100	10TCS-T10	29C451	$\frac{7}{16} \times \frac{5}{32}$
120	10TCS-T12	33C92	$\frac{1}{16} \times \frac{5}{32}$
150	10TCS-T15	33C201	$\frac{1}{16} \times \frac{5}{32}$
175	10TCS-T175	33C217	$\frac{1}{16} \times \frac{5}{32}$
180	10TCS-T18	36C	

SPRAGUE CAPACITORS

CERA-MITE CERAMIC CAPACITORS, continued

μF	Sprague Products Cat. No.	Sprague O.E.M. Part No.	Size D. x T.
N330 (cont.)			
300	10TCS-T30	41C261	$\frac{7}{8}$ x $\frac{7}{32}$
330	10TCS-T33	33C241	$\frac{1}{16}$ x $\frac{5}{32}$
390	10TCS-T39	36C318	$\frac{3}{4}$ x $\frac{5}{32}$
470	10TCS-T47	41C276	$\frac{7}{8}$ x $\frac{7}{32}$
560	10TCS-T56	41C278	$\frac{7}{8}$ x $\frac{7}{32}$

μF	Sprague Products Cat. No.	Sprague O.E.M. Part No.	Size D. x T.
N470			
3.0	10TCT-V30	40C463	$\frac{5}{16}$ x $\frac{5}{32}$
3.3	10TCT-V33	40C467	$\frac{5}{16}$ x $\frac{5}{32}$
3.9	10TCT-V39	40C474	$\frac{5}{16}$ x $\frac{5}{32}$
4.7	10TCT-V47	40C419	$\frac{5}{16}$ x $\frac{5}{32}$
5.0	10TCT-V50	40C420	$\frac{5}{16}$ x $\frac{5}{32}$
5.6	10TCT-V56	40C421	$\frac{5}{16}$ x $\frac{5}{32}$
6.8	10TCT-V68	40C422	$\frac{5}{16}$ x $\frac{5}{32}$
8.2	10TCT-V82	40C423	$\frac{5}{16}$ x $\frac{5}{32}$
10	10TCT-Q10	40C424	$\frac{5}{16}$ x $\frac{5}{32}$
12	10TCT-Q12	40C425	$\frac{5}{16}$ x $\frac{5}{32}$
15	10TCT-Q15	40C426	$\frac{5}{16}$ x $\frac{5}{32}$
18	10TCT-Q18	40C427	$\frac{5}{16}$ x $\frac{5}{32}$
20	10TCT-Q20	40C519	$\frac{5}{16}$ x $\frac{5}{32}$
22	10TCT-Q22	40C428	$\frac{5}{16}$ x $\frac{5}{32}$
25	10TCT-Q25	40C352	$\frac{5}{16}$ x $\frac{5}{32}$
27	10TCT-Q27	19C420	$\frac{3}{8}$ x $\frac{5}{32}$
30	10TCT-Q30	19C423	$\frac{3}{8}$ x $\frac{5}{32}$
33	10TCT-Q33	19C397	$\frac{3}{8}$ x $\frac{5}{32}$
39	10TCT-Q39	19C436	$\frac{3}{8}$ x $\frac{5}{32}$
47	10TCT-Q47	19C437	$\frac{3}{8}$ x $\frac{5}{32}$
50	10TCT-Q50	20C275	$\frac{7}{16}$ x $\frac{5}{32}$
56	10TCT-Q56	20C286	$\frac{7}{16}$ x $\frac{5}{32}$
68	10TCT-Q68	20C287	$\frac{7}{16}$ x $\frac{5}{32}$
75	10TCT-Q75	20C288	$\frac{7}{16}$ x $\frac{5}{32}$
82	10TCT-Q82	29C399	$\frac{9}{16}$ x $\frac{5}{32}$
100	10TCT-T10	29C463	$\frac{9}{16}$ x $\frac{5}{32}$
120	10TCT-T12	29C464	$\frac{9}{16}$ x $\frac{5}{32}$
150	10TCT-T15	33C183	$\frac{1}{16}$ x $\frac{5}{32}$
175	10TCT-T175	33C232	$\frac{1}{16}$ x $\frac{5}{32}$
180	10TCT-T18	33C233	$\frac{1}{16}$ x $\frac{5}{32}$
200	10TCT-T20	33C234	$\frac{1}{16}$ x $\frac{5}{32}$
220	10TCT-T22	33C335	$\frac{1}{16}$ x $\frac{5}{32}$
270	10TCT-T27	36C343	$\frac{3}{4}$ x $\frac{5}{32}$
300	10TCT-T30	41C286	$\frac{7}{8}$ x $\frac{7}{32}$
330	10TCT-T33	41C287	$\frac{7}{8}$ x $\frac{7}{32}$
390	10TCT-T39	41C288	$\frac{7}{8}$ x $\frac{7}{32}$
470	10TCT-T47	36C344	$\frac{3}{4}$ x $\frac{5}{32}$
560	10TCT-T56	41C248	$\frac{7}{8}$ x $\frac{7}{32}$

μF	Sprague Products Cat. No.	Sprague O.E.M. Part No.	Size D. x T.
N750			
4.7	10TCU-V47	40C477	$\frac{5}{16}$ x $\frac{5}{32}$
5.0	10TCU-V50	40C482	$\frac{5}{16}$ x $\frac{5}{32}$
5.6	10TCU-V56	40C486	$\frac{5}{16}$ x $\frac{5}{32}$
6.8	10TCU-V68	40C491	$\frac{5}{16}$ x $\frac{5}{32}$
8.2	10TCU-V82	40C496	$\frac{5}{16}$ x $\frac{5}{32}$
10	10TCU-Q10	40C501	$\frac{5}{16}$ x $\frac{5}{32}$
12	10TCU-Q12	40C506	$\frac{5}{16}$ x $\frac{5}{32}$
15	10TCU-Q15	40C513	$\frac{5}{16}$ x $\frac{5}{32}$
18	10TCU-Q18	40C517	$\frac{5}{16}$ x $\frac{5}{32}$
20	10TCU-Q20	40C520	$\frac{5}{16}$ x $\frac{5}{32}$
22	10TCU-Q22	40C523	$\frac{5}{16}$ x $\frac{5}{32}$
25	10TCU-Q25	40C524	$\frac{5}{16}$ x $\frac{5}{32}$
27	10TCU-Q27	40C287	$\frac{5}{16}$ x $\frac{5}{32}$
30	10TCU-Q30	40C533	$\frac{5}{16}$ x $\frac{5}{32}$
33	10TCU-Q33	40C534	$\frac{5}{16}$ x $\frac{5}{32}$
39	10TCU-Q39	19C427	$\frac{3}{8}$ x $\frac{5}{32}$
47	10TCU-Q47	19C438	$\frac{3}{8}$ x $\frac{5}{32}$
50	10TCU-Q50	19C39	$\frac{3}{8}$ x $\frac{5}{32}$
56	10TCU-Q56	19C40	$\frac{3}{8}$ x $\frac{5}{32}$
68	10TCU-Q68	20C289	$\frac{7}{16}$ x $\frac{5}{32}$
75	10TCU-Q75	20C290	$\frac{7}{16}$ x $\frac{5}{32}$
82	10TCU-Q82	20C291	$\frac{7}{16}$ x $\frac{5}{32}$
100	10TCU-T10	29C454	$\frac{9}{16}$ x $\frac{5}{32}$
120	10TCU-T12	29C455	$\frac{9}{16}$ x $\frac{5}{32}$
150	10TCU-T15	29C465	$\frac{9}{16}$ x $\frac{5}{32}$
175	10TCU-T175	29C466	$\frac{9}{16}$ x $\frac{5}{32}$

μF	Sprague Products Cat. No.	Sprague O.E.M. Part No.	Size D. x T.
N750 (cont.)			
180	10TCU-T18	33C88	$\frac{1}{16}$ x $\frac{5}{32}$
200	10TCU-T20	33C105	$\frac{1}{16}$ x $\frac{5}{32}$
220	10TCU-T22	33C236	$\frac{1}{16}$ x $\frac{5}{32}$
270	10TCU-T27	33C237	$\frac{1}{16}$ x $\frac{5}{32}$
300	10TCU-T30	33C346	$\frac{1}{16}$ x $\frac{5}{32}$

μF	Sprague Products Cat. No.	Sprague O.E.M. Part No.	Size D. x T.
N750 (cont.)			
330	10TCU-T33	33C347	$\frac{1}{16}$ x $\frac{5}{32}$
390	10TCU-T39	41C289	$\frac{7}{8}$ x $\frac{7}{32}$
470	10TCU-T47	41C290	$\frac{7}{8}$ x $\frac{7}{32}$
560	10TCU-T56	33C238	$\frac{1}{16}$ x $\frac{5}{32}$
680	10TCU-T68	36C348	$\frac{3}{4}$ x $\frac{5}{32}$

TEMPERATURE-STABLE TYPES

- Used where minimum capacitance change with temperature is an important consideration
- Standard capacitance tolerance: $\pm 10\%$ except 10TS-S15 10TS-S20, 10TS-S30 $\pm 15\%$
- Rated at **1000 WVDC**

μF	Sprague Products Cat. No.	Sprague O.E.M. Part No.	Size D. x T.
3.3	10TS-V33	40C300A	$\frac{5}{16}$ x $\frac{5}{16}$
5.0	10TS-V50	40C49A1	$\frac{5}{16}$ x $\frac{5}{16}$
6.0	10TS-V60	40C299A	$\frac{5}{16}$ x $\frac{5}{16}$
6.8	10TS-V68	40C97A2	$\frac{5}{16}$ x $\frac{5}{16}$
7.5	10TS-V75	40C133A	$\frac{5}{16}$ x $\frac{5}{16}$
8.0	10TS-V80	40C38A2	$\frac{5}{16}$ x $\frac{5}{16}$
10	10TS-Q10	40C219A3	$\frac{5}{16}$ x $\frac{5}{16}$
12	10TS-Q12	40C252A	$\frac{5}{16}$ x $\frac{5}{16}$
15	10TS-Q15	40C65A2	$\frac{5}{16}$ x $\frac{5}{16}$
18	10TS-Q18	40C139A3	$\frac{5}{16}$ x $\frac{5}{16}$
20	10TS-Q20	40C265A	$\frac{5}{16}$ x $\frac{5}{16}$
22	10TS-Q22	40C56A	$\frac{5}{16}$ x $\frac{5}{16}$
25	10TS-Q25	40C113A	$\frac{5}{16}$ x $\frac{5}{16}$
27	10TS-Q27	40C287A	$\frac{5}{16}$ x $\frac{5}{16}$
30	10TS-Q30	40C303	$\frac{5}{16}$ x $\frac{5}{16}$
33	10TS-Q33	40C57A	$\frac{5}{16}$ x $\frac{5}{16}$
39	10TS-Q39	40C58A	$\frac{5}{16}$ x $\frac{5}{16}$
47	10TS-Q47	40C135A	$\frac{5}{16}$ x $\frac{5}{16}$
50	10TS-Q50	40C157A	$\frac{5}{16}$ x $\frac{5}{16}$
56	10TS-Q56	40C130A2	$\frac{5}{16}$ x $\frac{5}{16}$
68	10TS-Q68	40C270A	$\frac{5}{16}$ x $\frac{5}{16}$
75	10TS-Q75	40C46A1	$\frac{5}{16}$ x $\frac{5}{16}$
82	10TS-Q82	40C281A	$\frac{5}{16}$ x $\frac{5}{16}$
91	10TS-Q91	40C302	$\frac{5}{16}$ x $\frac{5}{16}$
100	10TS-T10	40C200A	$\frac{5}{16}$ x $\frac{5}{16}$
120	10TS-T12	40C60A	$\frac{5}{16}$ x $\frac{5}{16}$
130	10TS-T13	40C147A	$\frac{5}{16}$ x $\frac{5}{16}$
150	10TS-T15	40C202A	$\frac{5}{16}$ x $\frac{5}{16}$
180	10TS-T18	40C99A1	$\frac{5}{16}$ x $\frac{5}{16}$
200	10TS-T20	40C81A	$\frac{5}{16}$ x $\frac{5}{16}$
220	10TS-T22	40C204A	$\frac{5}{16}$ x $\frac{5}{16}$
240	10TS-T24	40C167A	$\frac{5}{16}$ x $\frac{5}{16}$
250	10TS-T25	40C101A2	$\frac{5}{16}$ x $\frac{5}{16}$
270	10TS-T27	40C301	$\frac{5}{16}$ x $\frac{5}{16}$
300	10TS-T30	40C106A	$\frac{5}{16}$ x $\frac{5}{16}$
330	10TS-T35	40C207A	$\frac{5}{16}$ x $\frac{5}{16}$

μF	Sprague Products Cat. No.	Sprague O.E.M. Part No.	Size D. x T.
350	10TS-T35	19C105A	$\frac{3}{8}$ x $\frac{5}{16}$
360	10TS-T36	19C106A	$\frac{3}{8}$ x $\frac{5}{16}$
390	10TS-T39	19C131A1	$\frac{3}{8}$ x $\frac{5}{16}$
400	10TS-T40	19C294	$\frac{3}{8}$ x $\frac{5}{16}$
470	10TS-T47	19C160A1	$\frac{3}{8}$ x $\frac{5}{16}$
500	10TS-T50	19C161A	$\frac{3}{8}$ x $\frac{5}{16}$
560	10TS-T56	19C231A	$\frac{3}{8}$ x $\frac{5}{16}$
600	10TS-T60	19C108A	$\frac{3}{8}$ x $\frac{5}{16}$
680	10TS-T68	20C133A	$\frac{7}{16}$ x $\frac{5}{16}$
750	10TS-T75	20C135A	$\frac{7}{16}$ x $\frac{5}{16}$
800	10TS-T80	20C137A	$\frac{7}{16}$ x $\frac{5}{16}$
820	10TS-T82	20C139A	$\frac{7}{16}$ x $\frac{5}{16}$
.001 μF	10TS-D10	29C151A1	$\frac{9}{16}$ x $\frac{5}{16}$
.0012	10TS-D12	29C239A	$\frac{9}{16}$ x $\frac{5}{16}$
.0013	10TS-D13	29C84A	$\frac{9}{16}$ x $\frac{5}{16}$
.0015	10TS-D15	29C155A3	$\frac{9}{16}$ x $\frac{5}{16}$
.0016	10TS-D16	29C85A	$\frac{9}{16}$ x $\frac{5}{16}$
.0018	10TS-D18	33C45A	$\frac{1}{16}$ x $\frac{5}{16}$
.0020	10TS-D20	33C12A2	$\frac{1}{16}$ x $\frac{5}{16}$
.0022	10TS-D22	33C12A1	$\frac{1}{16}$ x $\frac{5}{16}$
.0025	10TS-D25	33C98	$\frac{1}{16}$ x $\frac{5}{16}$
.0027	10TS-D27	33C99	$\frac{1}{16}$ x $\frac{5}{16}$
.0030	10TS-D30	36C246A	$\frac{3}{4}$ x $\frac{5}{16}$
.0031	10TS-D33	36C143A	$\frac{3}{4}$ x $\frac{5}{16}$
.0039	10TS-D39	41C91A	$\frac{7}{8}$ x $\frac{5}{16}$
.0040	10TS-D40	41C56A	$\frac{7}{8}$ x $\frac{5}{16}$
.0043	10TS-D43	41C146	$\frac{7}{8}$ x $\frac{5}{16}$
.0047	10TS-D47	41C72A1	$\frac{7}{8}$ x $\frac{5}{16}$
.0050	10TS-D50	41C89A1	$\frac{7}{8}$ x $\frac{5}{16}$
.0056	10TS-D56	33C100	$\frac{1}{16}$ x $\frac{7}{16}$
.0068	10TS-D68	36C108A	$\frac{3}{4}$ x $\frac{7}{16}$
.0075	10TS-D75	41C148	$\frac{7}{8}$ x $\frac{7}{16}$
.01	10TS-S10	41C121A1	$\frac{7}{8}$ x $\frac{7}{16}$
.015	10TS-S15	41C123A1	$\frac{7}{8}$ x $\frac{7}{16}$
.02	10TS-S20	36C340A	$\frac{3}{4}$ x $\frac{7}{16}$
.03	10TS-S30	41C284A	$\frac{7}{8}$ x $\frac{7}{16}$

HIGH-K TYPES

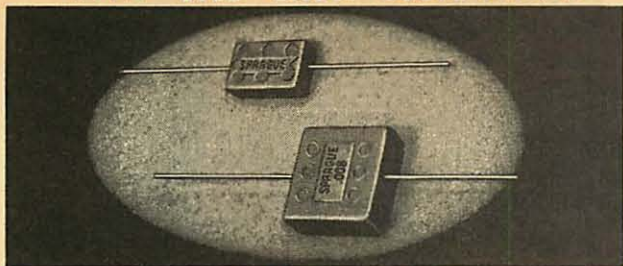
- Designed for By-Pass and Coupling Applications Where Additional Capacitance Will Not Affect Circuit Operation
- Smallest Physical Size
- 5HK-S15 thru 5HK-P10, **500 WVDC**, Capacitance Tolerance: $\pm 10\%$ — $\pm 20\%$
- All Other 5HK are **1000 WVDC**, Capacitance Tolerance: **GMV**

μF	Sprague Products Cat. No.	Sprague O.E.M. Part No.	Size D. x T.
SINGLE UNITS			
.001	5HK-D10	40C214	$\frac{5}{16}$ x $\frac{5}{32}$
.0015	5HK-D15	19C237	$\frac{3}{8}$ x $\frac{5}{32}$
.002	5HK-D20	19C203	$\frac{3}{8}$ x $\frac{5}{32}$
.0022	5HK-D22*	20C254	$\frac{7}{16}$ x $\frac{5}{32}$
.0025	5HK-D25	20C179A	$\frac{7}{16}$

SPRAGUE CAPACITORS

MICA CAPACITORS

TYPE MS and 1FM MICAS



TYPE MS — SILVERED MICA
(Standard Capacitance Tolerance $\pm 5\%$)

MF	Cat. No.	Net Ea.	MF	Cat. No.	Net Ea.	MF	Cat. No.	Net Ea.
500 WVDC, 1000 V Test								
.000005	MS-55	\$.27	.000120	MS-312	.27	.001300	MS-213	\$.75
.000010	MS-41	.24	.000130	MS-313	.27	.001500	MS-215	.81
.000015	MS-415	.24	.000150	MS-315	.27	.001600	MS-216	.81
.000018	MS-418	.24	.000160	MS-316	.27	.001800	MS-218	.81
.000020	MS-42	.24	.000180	MS-318	.27	.002000	MS-22	.81
.000022	MS-422	.24	.000200	MS-32	.27	.002200	MS-222	.90
.000024	MS-424	.24	.000220	MS-322	.27	.002400	MS-224	1.08
.000025	MS-425	.24	.000240	MS-324	.33	.002500	MS-225	1.08
.000027	MS-427	.24	.000250	MS-325	.33	.002700	MS-227	1.14
.000030	MS-43	.24	.000270	MS-327	.33	.003000	MS-23	1.23
.000033	MS-433	.24	.000300	MS-33	.33	.003300	MS-233	1.23
.000036	MS-436	.24	.000330	MS-333	.33	.003600	MS-236	1.26
.000039	MS-439	.24	.000360	MS-336	.33	.003900	MS-239	1.29
.000040	MS-44	.24	.000390	MS-339	.39	.004000	MS-24	1.29
.000043	MS-443	.24	.000400	MS-34	.39	.004300	MS-243	1.29
.000045	MS-45	.24	.000430	MS-343	.39	.004700	MS-247	1.29
.000047	MS-47	.24	.000470	MS-347	.42	.005000	MS-25	1.35
.000050	MS-447	.24	.000500	MS-35	.42	.005100	MS-251	1.35
.000051	MS-451	.24	.000510	MS-351	.42	.005600	MS-256	1.50
.000055	MS-455	.24	.000560	MS-356	.45	.006000	MS-26	1.44
.000060	MS-46	.24	.000600	MS-36	.48	.006200	MS-262	1.56
.000062	MS-462	.24	.000620	MS-362	.48	300 WVDC, 600 V Test		
.000068	MS-468	.24	.000680	MS-368	.51	.006800	MS-268	1.56
.000070	MS-47	.24	.000700	MS-37	.51	.007000	MS-27	1.56
.000075	MS-475	.24	.000750	MS-375	.54	.007500	MS-275	1.68
.000082	MS-482	.24	.000800	MS-38	.57	.008000	MS-28	1.68
.000088	MS-488	.24	.000820	MS-382	.57	.008200	MS-282	1.68
.000091	MS-491	.24	.000900	MS-39	.60	.008900	MS-29	1.86
.000100	MS-311	.24	.000910	MS-391	.60	.009100	MS-291	1.86
.000110	MS-311	.27	.001000	MS-40	.66	.009100	MS-291	1.86
.000110	MS-311	.27	.001100	MS-41	.72	.009100	MS-291	1.86
.000110	MS-311	.27	.001200	MS-42	.78	.010000	MS-11	2.04

TYPE 1FM
(Standard Capacitance Tolerance $\pm 20\%$)

MF	Cat. No.	Net Ea.	MF	Cat. No.	Net Ea.	MF	Cat. No.	Net Ea.
500 WVDC, 1000 V Test								
.000010	1FM-41	\$.15	.000150	1FM-315	\$.12	.001500	1FM-215	\$.18
.000012	1FM-412	.15	.000160	1FM-316	.12	.001600	1FM-216	.18
.000015	1FM-415	.15	.000180	1FM-318	.12	.001800	1FM-218	.24
.000018	1FM-418	.15	.000200	1FM-32	.12	.002000	1FM-22	.24
.000020	1FM-42	.15	.000220	1FM-322	.15	.002200	1FM-222	.24
.000022	1FM-422	.15	.000240	1FM-324	.15	.002400	1FM-224	.30
.000024	1FM-424	.15	.000250	1FM-325	.15	.002500	1FM-225	.30
.000027	1FM-427	.15	.000270	1FM-327	.15	.002700	1FM-227	.30
.000030	1FM-43	.15	.000300	1FM-33	.15	.003000	1FM-23	.30
.000033	1FM-433	.15	.000330	1FM-333	.15	.003300	1FM-233	.36
.000036	1FM-436	.15	.000360	1FM-336	.15	.003600	1FM-236	.36
.000039	1FM-439	.15	.000390	1FM-339	.15	.003900	1FM-239	.36
.000040	1FM-44	.15	.000400	1FM-34	.15	.004000	1FM-24	.36
.000043	1FM-443	.15	.000430	1FM-343	.15	.004300	1FM-243	.36
.000045	1FM-45	.12	.000470	1FM-347	.15	.004700	1FM-247	.36
.000047	1FM-47	.12	.000500	1FM-35	.15	.005000	1FM-25	.36
.000050	1FM-447	.12	.000510	1FM-351	.15	.005100	1FM-251	.36
.000051	1FM-451	.12	.000560	1FM-356	.15	.005600	1FM-256	.39
.000055	1FM-455	.12	.000620	1FM-362	.15	.006000	1FM-26	.39
.000060	1FM-462	.12	.000680	1FM-368	.15	.006200	1FM-262	.39
.000062	1FM-468	.12	.000700	1FM-37	.15	300 WVDC, 600 V Test		
.000068	1FM-475	.12	.000750	1FM-375	.18	.006800	1FM-268	.51
.000082	1FM-482	.12	.000800	1FM-382	.18	.007000	1FM-27	.51
.000088	1FM-488	.12	.000820	1FM-382	.18	.007500	1FM-275	.51
.000091	1FM-491	.12	.000900	1FM-391	.18	.008000	1FM-28	.60
.000100	1FM-311	.12	.000910	1FM-391	.18	.008200	1FM-282	.60
.000110	1FM-311	.12	.001000	1FM-40	.18	.008900	1FM-29	.60
.000120	1FM-312	.12	.001000	1FM-40	.18	.009100	1FM-29	.60
.000130	1FM-313	.12	.001200	1FM-41	.18	.009100	1FM-291	.60
.000130	1FM-313	.12	.001300	1FM-41	.18	.010000	1FM-11	.72

MS and 1FM Dimensions

Catalog Nos.	L x W x T	Catalog Nos.	L x W x T
MS-55 thru MS-35	$5/16 \times 1/2 \times 7/32$	MS-29 thru MS-11	1 x $5/8 \times 3/16$
MS-351 thru MS-222	$5/16 \times 5/8 \times 7/32$	1FM-41 thru 1FM-462	$5/16 \times 1/2 \times 7/32$
MS-224	$5/16 \times 3/4 \times 1/32$	1FM-468 thru 1FM-475	$5/16 \times 5/8 \times 7/32$
MS-225 thru MS-227	$5/16 \times 5/8 \times 7/32$	1FM-482 thru 1FM-356	$5/16 \times 1/2 \times 7/32$
MS-23	$5/16 \times 5/8 \times 1/32$	1FM-362 thru 1FM-233	$5/16 \times 5/8 \times 7/32$
MS-233	$5/16 \times 5/8 \times 7/32$	1FM-236 thru 1FM-282	$5/16 \times 5/8 \times 1/32$
MS-236 thru MS-282	$5/16 \times 5/8 \times 1/32$	1FM-29 thru 1FM-11	1 x $5/8 \times 3/16$

- Each Mica Capacitor Section Receives a Radio Frequency Test Before Molding
- Careful Selection and Electrical Grading of Raw Mica Assures Maximum Quality
- Section Foils on Foil Micacs are Connected to Terminals through Special Low-resistance R-F Bonds
- R-F Current Tested for Peak Ratings After Impregnation and Molding

TYPES XFM, YFM and ZFM



(Standard Capacitance Tolerance $\pm 10\%$)

MF	Cat. No.	Net Ea.
XFM — 600 WVDC, 1200 V TEST		
.00005	XFM-45	\$.72
.0001	XFM-31	.72
.0002	XFM-32	.72
.00025	XFM-325	.72
.0003	XFM-33	.72
.0004	XFM-34	.72
.0005	XFM-35	.72
.001	XFM-21	.72
.0015	XFM-215	.72
.002	XFM-22	.78
.0025	XFM-225	.78
.003	XFM-23	.87
.004	XFM-24	.90
.005	XFM-25	.93
.006	XFM-26	1.08
.007	XFM-27	1.11
.008	XFM-28	1.14
.01	XFM-11	1.29
.02	XFM-12	1.83
.03	XFM-13	2.67

Catalog Numbers L x W x T
XFM-45 thru XFM-11 $1\frac{1}{2} \times 1\frac{1}{2} \times 1\frac{1}{32}$
XFM-12 thru XFM-13 $1\frac{1}{2} \times 1\frac{1}{2} \times \frac{1}{16}$

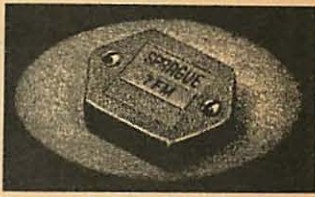
MF	Cat. No.	Net Ea.
YFM — 1200 WVDC, 2500 V TEST		
.00005	YFM-45	.96
.0001	YFM-31	.96
.0002	YFM-32	.96
.00025	YFM-325	.96
.0003	YFM-33	.96
.0004	YFM-34	.96
.0005	YFM-35	.96
.001	YFM-21	1.08
.0015	YFM-215	1.38
.002	YFM-22	1.44
.0025	YFM-225	1.68
.003	YFM-23	1.83
.004	YFM-24	1.83
.005	YFM-25	1.98
.006	YFM-26	1.98
.007	YFM-27	2.07
.008	YFM-28	2.31
.01	YFM-11	3.06

Catalog Numbers L x W x T
YFM-45 thru YFM-24 $1\frac{1}{2} \times 1\frac{1}{2} \times 1\frac{1}{32}$
YFM-25 thru YFM-11 $1\frac{1}{2} \times 1\frac{1}{2} \times \frac{1}{16}$

MF	Cat. No.	Net Ea.
ZFM — 2500 WVDC, 5000 V TEST		
.00005	ZFM-45	1.14
.0001	ZFM-31	1.14
.0002	ZFM-32	1.14
.00025	ZFM-325	1.32
.0003	ZFM-33	1.35
.0004	ZFM-34	1.38
.0005	ZFM-35	1.44
.001	ZFM-21	1.68
.0015	ZFM-215	2.13
.002	ZFM-22	2.49
.003	ZFM-23	2.94
.004	ZFM-24	3.39
.005	ZFM-25	3.84

Catalog Numbers L x W x T
ZFM-45 thru ZFM-22 $1\frac{1}{2} \times 1\frac{1}{2} \times 1\frac{1}{32}$
ZFM-23 thru ZFM-25 $1\frac{1}{2} \times 1\frac{1}{2} \times \frac{1}{16}$

TYPES 7FM, 8FM and 9FM



(Standard Capacitance Tolerance $\pm 10\%$)

MF	Cat. No.	Net Ea.
7FM — 600 WVDC, 1200 V TEST		
.00005	7FM-45	\$.87
.0001	7FM-31	.87
.00015	7FM-315	.87
.0002	7FM-32	.87
.00025	7FM-325	.87
.0003	7FM-35	.87
.001	7FM-21	.87
.002	7FM-22	.99
.0025	7FM-225	1.02
.003	7FM-23	1.11
.004	7FM-24	1.20
.005	7FM-25	1.26
.006	7FM-26	1.32
.008	7FM-28	1.47
.01	7FM-11	1.68
.015	7FM-115	1.83
.02	7FM-12	2.13
.03	7FM-13	2.73
.04	7FM-14	3.51
.05	7FM-15	4.26
.06	7FM-16	4.83

Catalog Numbers L x W x T
7FM-45 thru 7FM-13 $1\frac{1}{2} \times 1\frac{1}{2} \times \frac{1}{16}$
7FM-14 thru 7FM-16 $1\frac{1}{2} \times 1\frac{1}{2} \times \frac{1}{32}$

MF	Cat. No.	Net Ea.
8FM — 1200 WVDC, 2500 V TEST		
.00005	8FM-45	.96
.0001	8FM-31	.96
.00015	8FM-315	.96
.0002	8FM-32	.96
.00025	8FM-325	.96
.0003	8FM-35	.96
.001	8FM-21	1.14
.002	8FM-22	1.50
.0025	8FM-225	1.68
.003	8FM-23	1.77