

8.4.6 Bill of Materials

BILL OF MATERIALS

050282-2C

Title: **KAVAL MULTICARRIER SKYTEL OFR CO**
 Detail: **ASSY PCB**
 Rev: **1**
 Status: **U** Date: **12/4/98**

Item	Qty	Part	Type Stat	Title Detail	Reference
1	1	050282-9A	PS U	KAVAL MULTICARRIER SKYTEL OFR CONTROL PCB BARE	
2	4	228280-06	PS U	STANDOFF HEX #4 1/4"	
3	8	252002-01	PS U	SCREW MACHINE 4-40 UNC PAN PHILIPS 3/16"	
4	3	3003-0914	PS U	DIODE SMD GENERAL PURPOSE SS MMBD914L	D2 D6 D7
5	2	3036-1790	PS U	LIGHT EMMITING DIODE GREEN T-1 LT1142	D1 D3
6	1	3036-4123	PS U	LIGHT EMMITING DIODE YELLOW T-1 LT1145	D4
7	1	3036-7123	PS U	LIGHT EMITTING DIODE RED T-1 LT1136	D5
8	5	3203-4401	PS U	TRANSISTOR SMD NPN SWITCHING MMBT4401L	Q1 Q2 Q3 Q4 Q5
9	1	3506-1086	PS U	REG POS LOW DROPOUT LT1086CT	U4
10	1	3506-7805	PS U	REG POS LOW DROPOUT NJM78M05	U5
11	1	3513-0358	PS U	IC ANA OPAMP DUAL SM LM358D	U6
12	1	3723-0232	PS U	IC RS-232 DRIVER/RECEIVER MAX232ACWE	U2
13	1	3723-2416	PS U	IC SM DIG MEM CMOS SER EEPROM 16K 2V5 24LC16/SN	U3
14	1	3827-0705	PS U	IC MICROPROCESSOR PLCC 52 MC68HC705B5CFN	U1
15	1	40240-750	PS U	RES SM 1206 5% 75R	R32
16	2	40440-102	PS U	RES SM CER 0603 0.062W 5% 1K0	R10 R30
17	6	40440-103	PS U	RES SM CER 0603 0.062W 5% 10K	R8 R23 R24 R25 R28 R29
18	6	40440-104	PS U	RES SM CER 0603 0.062W 5% 100K	R4 R5 R9 R11 R12 R16
19	2	40440-105	PS U	RES SM CER 0603 0.062W 5% 1M0	R18 R19

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Item	Qty	Part	Type Stat	Title Detail	Reference
20	1	40440-106	PS U	RES SM CER 0603 0.062W 5% 10M	R15
21	1	40440-121	PS U	RES SM CER 0603 0.062W 5% 120R	R1
22	1	40440-164	PS U	RES SM CER 0603 0.062W 5% 160K	R22
23	3	40440-1K0	PS U	RES SM CER 0603 0.062W 5% 1K0	R14 R26 R27
24	1	40440-273	PS U	RES SM CER 0603 0.062W 5% 27K	R6
25	1	40440-333	PS U	RES SM CER 0603 0.062W 5% 33K	R13
26	1	40440-364	PS U	RES SM CER 0603 0.062W 5% 360K	R34
27	2	40440-434	PS U	RES SM CER 0603 0.062W 5% 430K	R17 R20
28	1	40440-472	PS U	RES SM CER 0603 0.062W 5% 4K7	R33
29	1	40440-512	PS U	RES SM CER 0603 0.062W 5% 5K1	R7
30	1	40440-561	PS U	RES SM CER 0603 0.062W 5% 560R	R3
31	1	42000-103	PS U	RES SM VAR SEALED TRIANGLE 3MM 10K	R31
32	1	42000-501	PS U	RES SM VAR SEALED TRIANGLE 3MM 500R	R2
33	2	50314-823	PS U	CAP SM CER 0805 X7R 10% 25V 82N	C23 C24
34	14	50410-104	PS U	CAP SM CER 0603 X7R 10% 16V 100N	C2 C3 C8 C9 C11 C12 C13 C14 C15 C16 C17 C19 C25 C28
35	1	50410-105	PS U	CAP SM CER 0603 X7R 10% 16V 1U0	C22
36	2	50410-220	PS U	CAP SM CER 0603 X7R 10% 16V 22P	C20 C21
37	1	50410-221	PS U	CAP SM CER 0603 X7R 10% 16V 220P	C10
38	1	50412-223	PS U	CAP SM CER 0603 X7R 10% 50V 22N	C1
39	1	52400-334	PS U	CAP SM TANT 3216 20% 35V 330N	C26
40	1	52501-225	PS U	CAP SM TANT 3216 20% 6V3 2U2	C27

BILL OF MATERIALS
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Item	Qty	Part	Type Stat	Title Detail	Reference
41	1	56201-476	PS U	CAP ELECT AXIAL LD 4X7X2.5mm 20% 16V 47U	C18
42	4	56253-106	PS U	CAP LD POLAR, ALUM RADIAL 16V 20% 10uF	C4 C5 C6 C7
43	1	63100-504	PS U	IND LD FIX HI CURR 500U	L1
44	1	72130-002	PS U	CON HEADER 100 CTR 2PINS HD 2 P	J5
45	1	72130-016	PS U	CON 16 PIN HD DBL ROW 100 HD 16 PIN	J2
46	1	72408-0100	PS U	CONN 8 PIN HEADER SGL ROW .100 CENTERS HD 8 PIN	J3
47	1	72415-0100	PS U	CONN 16 PIN HEADER DBL ROW .100 CENTERS HD 16 PIN	J6
48	1	72504-100	PS U	CONN PWR FRIC LOCK 4 PIN FL 4 PIN	J4
49	1	72903-009	PS U	DB9 METAL SHELL CONNECTOR DB9 VERTICAL	J1
50	1	7302-0000	PS U	PUSH BOTTON SW PB-SW	SW4
51	2	7302-0100	PS U	PUSHBUTTON SWITCH WITH CAP 520-01-3	SW1 SW2
52	1	7302-0101	PS U	PUSHBUTTON SWITCH WITH CAP 520-01-4	SW3
53	1	7502-0001	PS U	RELAY LD SPDT G5V-1-12ACM	F2
54	1	7511-0560	PS U	PWR FUSECLIP 5MM 2A	F1
55	1	7601-0000	PS U	LCD MODULE 1X16 ALPHA DMC-16105NY-LY	
56	1	77100-004	PS U	RESONATOR CRYSTAL 4 MHZ	Y1

8.5 Non-Electronic Assembly Bills of Materials

8.5.1 Final Assembly 010280-9A

BILL OF MATERIALSTitle: **KAVAL SKYTEL OFR COMPLETE****010280-9A**Detail: **FINAL ASSY**

Rev:

Status: **U**

Date: 7/15/98

Item	Qty	Part	Type Stat	Title Detail	Reference
1	1	020280-9A	PL U	KAVAL MULTICARRIER SKYTEL OFR IF/XMTR ASSY MODULE FINAL	
2	1	020281-9A	PL U	KAVAL SKYTEL OFR CHASSIS KIT ASSY MODULE FINAL	
3	1	020282-9C	PL U	KAVAL MULTICARRIER SKYTEL OFR CONTROL ASSY MODULE FINAL	
4	1	020284-9A	PL U	KAVAL SKYTEL OFR FRONT END MODULE ASSY MODULE FINAL	
5	1	020285-9A	PL U	KAVAL SKYTEL OFR L.O. MODULE ASSY MODULE FINAL	
6	1	020288-9A	PL U	POWER SUPPLY SWITCHING 12V ASSY MODULE FINAL	
7	1	020289-9A	PL U	POWER SUPPLY SWITCHING 24V ASSY MODULE FINAL	
8	2	030035-0A	PS U	ASSY CABLE MCX-M MCX-M RG316/U 16"	
9	1	030040-0A	PL U	KAVAL SKYTEL RIBBON CABLE SUB ASSY	
10	1	030041-0A	PL U	KAVAL SKYTEL POWER SUPPLY CABLE SUB ASSY	
11	1	030042-0A	PL U	KAVAL SKYTEL 120V AC CABLE SUB ASSY	
12	1	030043-0A	PL U	KAVAL SKYTEL MODULE SUPPLY CABLE SUB ASSY	
13	16	252002-01	PS U	SCREW MACHINE 4-40 UNC PAN PHILIPS 3/16"	

8.5.2 IF/Transmitter Module Assembly 020280-9A

BILL OF MATERIALS

020280-9A

Title: **KAVAL MULTICARRIER SKYTEL OFR IF/X**

Detail: ASSY MODULE FINAL

Rev:

Status: **U**

Date: 7/15/98

Item	Qty	Part	Type Stat	Title Detail	Reference
1	1	050280-2A	PL U	KAVAL MULTICARRIER SKYTEL OFR IF/XMTR ASSY PCB	
2	1	228280-01	PS U	KAVAL SKYTEL OFR XMIT HSG WALL EXTRUSION MODIFIED COMPAC R51250-100-0	
3	2	228280-02	PS U	KAVAL SKYTEL OFR XMTR HSG COVER	
4	1	228280-03	PS U	EMI GASKET D-SUB 15 572019-00101-70	
5	2	228280-04	PS U	KAVAL SKYTEL OFR XMIT HSG SHIELD WALL	
6	1	228280-05	PS U	KAVAL SKYTEL OFR XMIT HSG GROUND PLATE	
7	1	228280-07	PS U	KAVAL SKYTEL OFR XMIT HSG BOTTOM COVER	
8	1	228280-08	PS U	KAVAL SKYTEL OFR XMIT HSG HEATSINK	
9	24	252002-01	PS U	SCREW MACHINE 4-40 UNC PAN PHILIPS 3/16"	
10	2	252003-06	PS U	SCREW MACHINE 6-32 UNC PAN PHILIPS 1/2"	
11	2	72900-003	PS U	CON RF MCX FEMALE PANEL PE4894	
12	1	72900-005	PS U	CON RF N FEMALE PANEL 0.5" FLANGE PE4355	