



SERVICE MANUAL

264524C SERIES 440-470 Mhz AMPS

EMR Corp. - 22402 N. 19th Ave. - Phoenix, Az. 85027

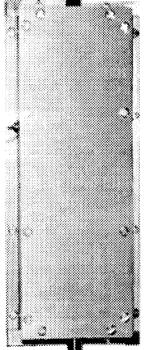
Tel: 623/581/2875 1/800/796/2875

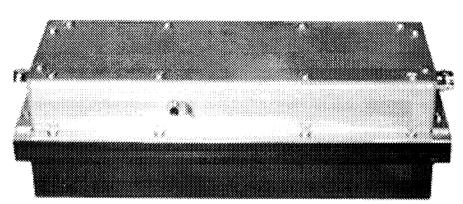
Email: info@emrcorp.com http://www.emrcorp.com

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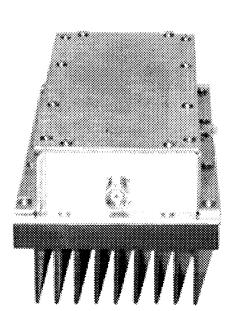
The 264524C Series of EMR amplifiers are intended for use in low power amplification and reamplification systems. Applications include land mobile radio bi- and uni- directional signal booster systems. They will cover the frequency range extending from 440 MHz to 470 Mhz.

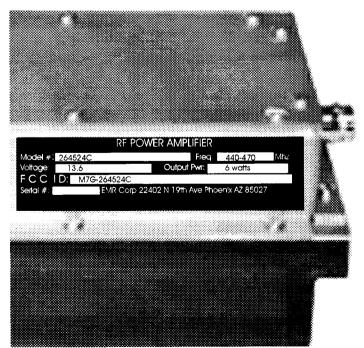
For operator convenience, views of the top, front, and side of the amplifier are presented here.





FCC Certification Label Placement





FREQUENCY RANGE:

440 - 470 MHz

OPERATING MODE:

FM

USAGE:

Bi- & Uni- Directional

Systems

MODEL #:

264524C

OUTPUT POWER:

6 WATTS

OPERATING

TEMPERATURE RANGE:

-20 to +50 Deg. C

OPERATING VOLTAGE:

+13.6 VDC

DUTY CYCLE:

100%

HARMONIC

Meets FCC

ATTENUATION:

Certification

OPTIONS:

EMR Amplifiers are available With several mechanical mounting options and

in various configurations.

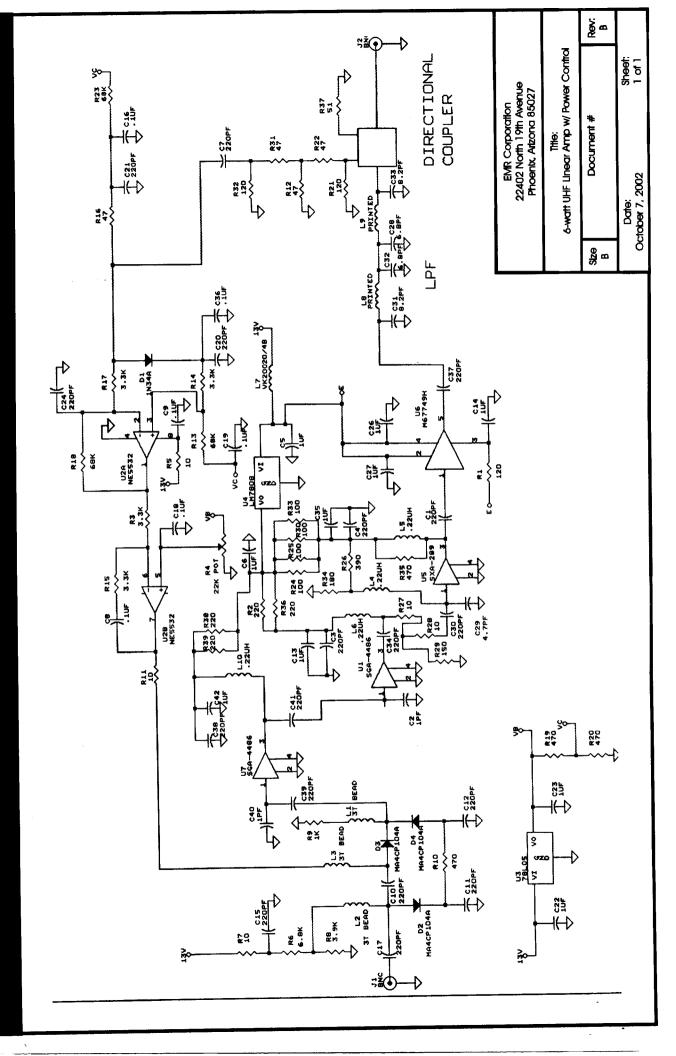
(Specified at time of order.)

FCC LABEL

RF POV	VE R AMPLIFIER		
Model #: 264524C	Freq.	440-470	Mhz
Voltage: 13.6	Output Pwr:	6 watts	
F C C D: M7G-264524C			
Serial #: EMR Corp 22	402 N 19th Ave Phoe	enix AZ 8502	7

The 264524C Series amplifier is a self-contained single board unit capable of up to 6 watts of output power with built in power control circuitry. The input signal is amplified by 2 gain blocks and a module capable of 65dB of gain, filtered by the output low pass filter and finally analyzed by the output coupler circuitry for excessive power. If overdrive level is sensed, the coupler and power control circuits compute a dc voltage that controls an electronic attenuator at the input of the unit. The attenuator makes the necessary adjustment to relieve the overdrive condition sensed by the output coupler.

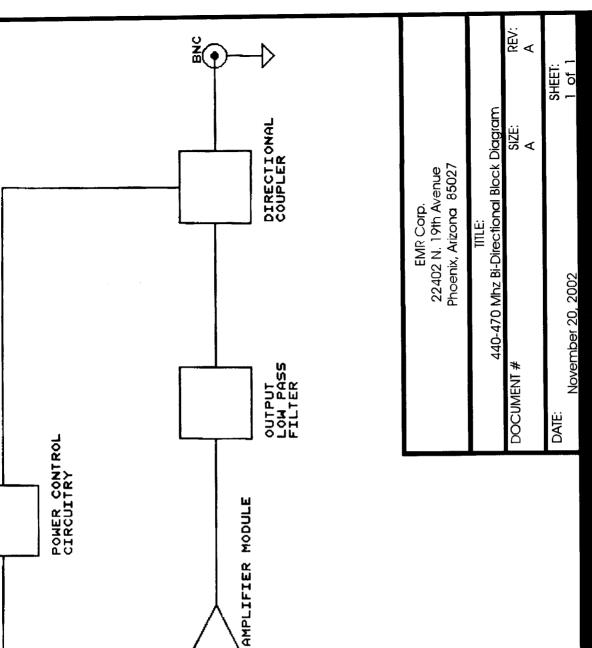
SCHEMATICS



6 WATT LINEAR AMP W/POWER CONTROL Bill of Materials Nov. 20, 2002

ITEM QL	JANTITY	REFERENCE	PART
 1	19	C1, C3, C4, C7, C10, C11, C12 C15, C17, C20, C21, C24, C30 C34, C37, C38, C39, C41	220PF
2	2	C2, C40	1PF
3	10	C5, C6, C13, C14, C22, C23 C26, C27, C35, C42	1UF
4	6	C8, C9, C16, C18, C19, C36	.1UF
5	2	C28, C32	6.8PF
6	1	C29	4.7PF
7	2	C31, C33	8.2PF
8	1	D1	1N34A
9	3	D2, D3, D4	MA4CP104A
10	2	J], J2	BNC 3T BEAD
]]	3	L1, L2, L3	.22UH
12 13	4	L4, L5, L6, L10 L7	.220n VK20020/4B
13 14	1 2	L7 L8, L9	PRINTED
14 15	3	R1, R21, R32	120
16	4	R2, R36, R38, R39	220
17	4	R3, R14, R15, R17	3.3K
18	ì	R4	22K POT
19	5	R5, R7, R11, R27, R28	10
20	1	R6	6.8K
21	1	R8	3.9K
22	1	R9	1K
23	4	R10, R19, R20, R35	470
24	4	R12, R16, R22, R31	47
25	3	R13, R18, R23	68K
26	4	R24, R25, R30, R33	100
27	1	R26	390 150
28	l 1	R29	150 180
29 30	1	R34 R37	51
30 31	2	U1, U7	SGA-4486
31 32	1	U2	NE5532
32 33	i	U3	78L05
33 34	i	U4	LM7808
35	1	U5	SXA-289
36	1	U6	M67749H

PARTS LIST



ELECTRONIC ATTENUATOR

13,6VDC

EMR Corporation, hereinafter called EMR, warrants that all equipment of its manufacture shall be free from defects in design, materials and workmanship for a period of 12 months from date of shipments unless otherwise covered by special warranty. If any such product, entirely or in part, fails to produce the performance set forth in the brochures, quotations or literature provided by EMR, such product will be replaced or repaired at EMR's expense provided that the failure was not the result of alternation, misuse, tampering, misapplication, shipping damage or vandalism. If a product failure is found to be the fault of EMR, costs of transportation to the EMR factory and return will be born by EMR. Should EMR supply components not of its own manufacture, but specified by a customer, the warranty shall reflect the original manufactures warranty, only.

It is understood that this statement constitutes EMR's entire and only warranty, there being no other warrantees expressed or implied in law or in fact, including implied warrantees of fitness. In no event shall EMR be liable for damages either direct or consequential, that may be occasioned by any defect in materials, workmanship or product support.

For service on this amplifier, contact:

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