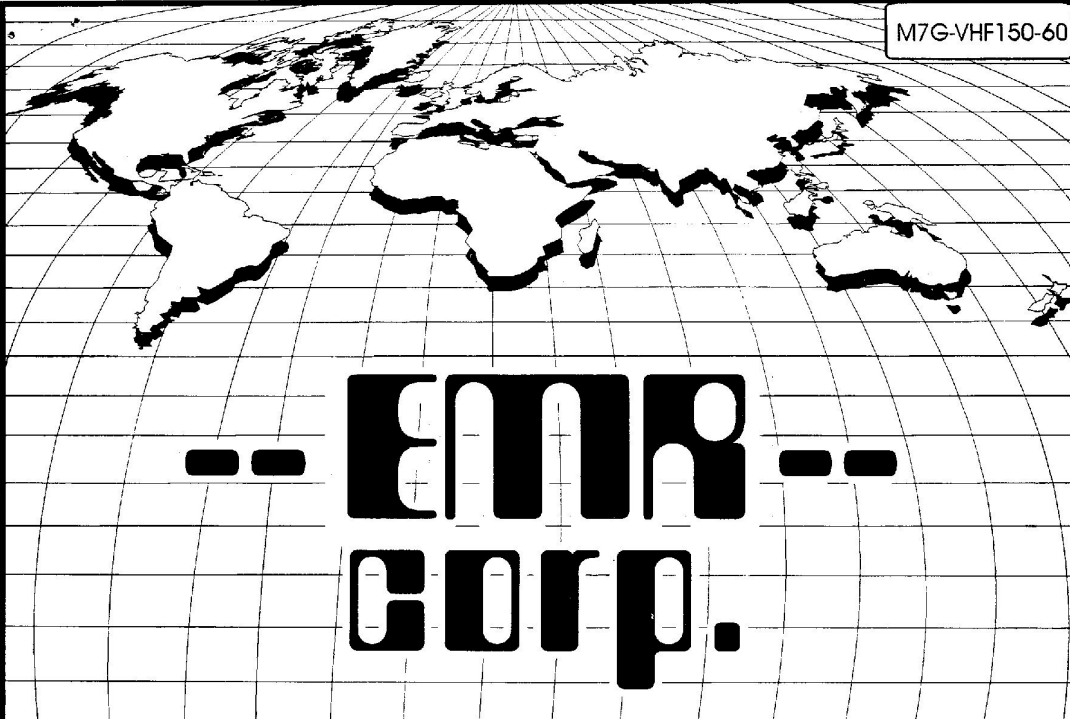


**APPENDIX B
OPERATING/SERVICE/INSTRUCTION MANUAL**



M7G-VHF150-60

-- EMR --
corp.

SERVICE MANUAL

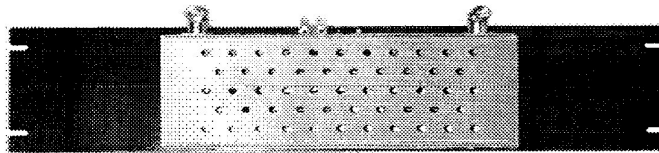
VHF 150-60 SERIES
150-170 MHz AMPS

EMR Corp. - 22402 N. 19th Ave. - Phoenix, Az. 85027
Tel: 602/581/2875 1/800/796/2875
Email: info@emrcorp.com <http://www.emrcorp.com>

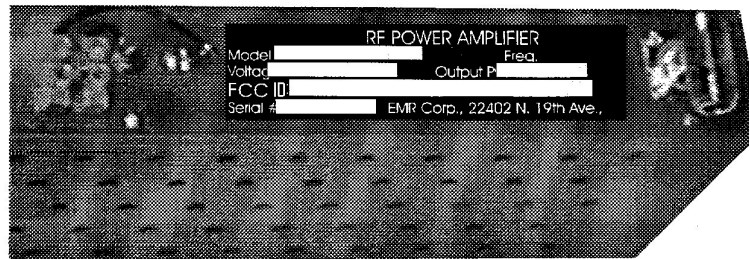
Table of Contents	PAGE
PRODUCT DESCRIPTION.....	2
GENERAL SPECIFICATIONS.....	3
CIRCUIT DESCRIPTIONS.....	4
SCHEMATICS.....	5
PARTS LIST.....	6
BLOCK DIAGRAM.....	7
WARRANTY INFORMATION.....	8

The VHF 150-60 Series of EMR amplifiers are intended for use in commercial communications systems. Applications include land mobile repeaters, trunking and data systems. They will cover the frequency range extending from 150 MHz to 170 MHz

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

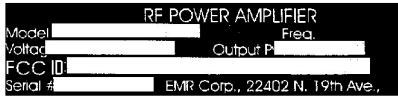


FCC Type Acceptance Label Placement



2

PRODUCT DESCRIPTION

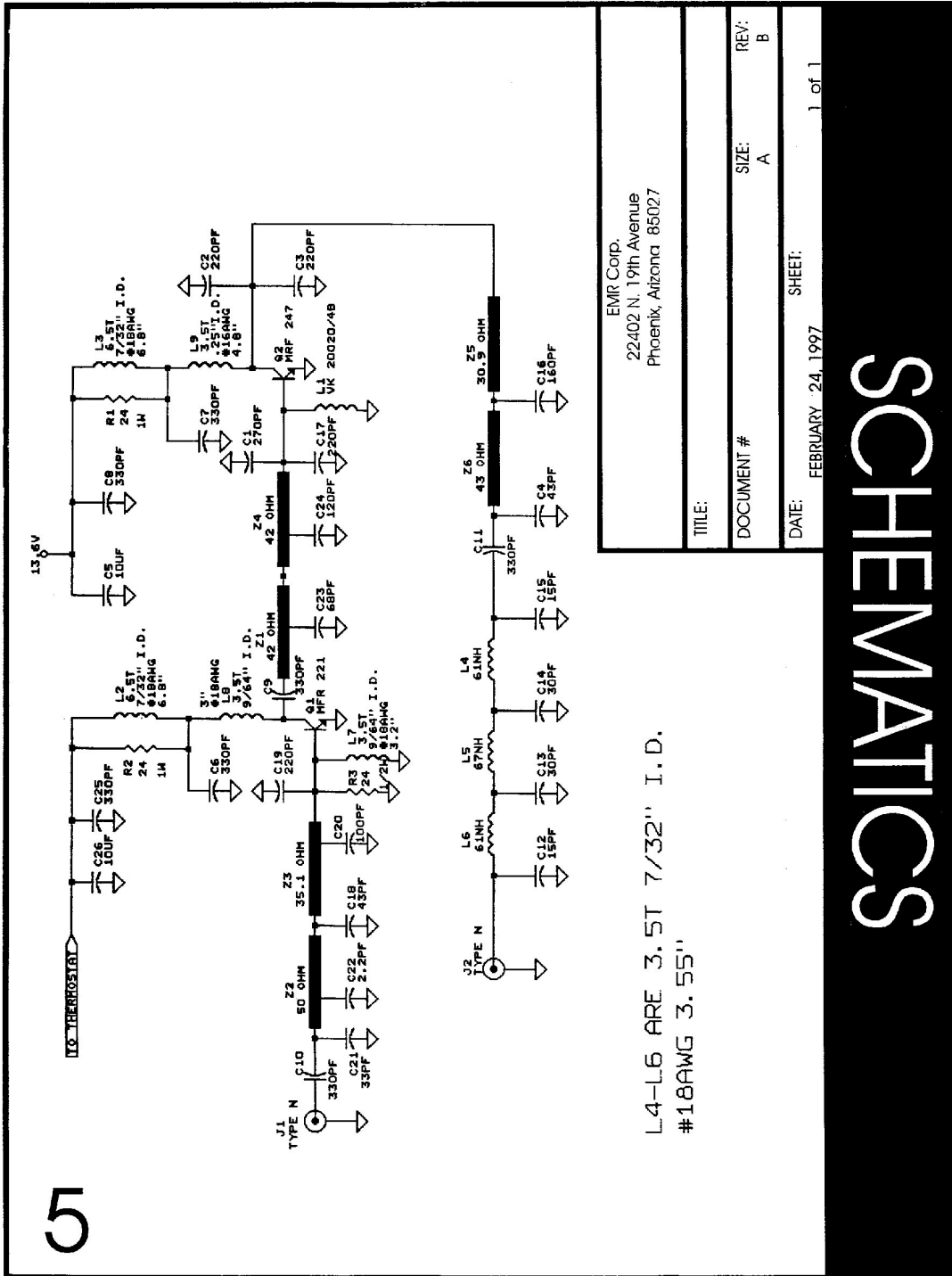
FREQUENCY RANGE:	150-170 MHz
OPERATING MODE:	FM
MODEL #:	VHF 150-60
OUTPUT POWER:	60 WATTS
OPERATING TEMPERATURE RANGE:	-20 to +50 Deg. C
OPERATING VOLTAGE:	+13.6 VDC / 10 amps
DUTY CYCLE:	100%
HARMONIC ATTENUATION:	Meets FCC Type Acceptance
OPTIONS:	EMR Amplifiers are available with several mechanical mounting options and in various configurations. (Specified at time of order.)
FCC TYPE ACCEPTANCE LABEL	
3	For placement see: PRODUCT SPECIFICATIONS

GENERAL SPECIFICATIONS

The VHF 150-60 Series power amplifier is a self-contained rack mountable unit capable of up to 60 watts of class c output power. The input signal is amplified by the driver transistor capable of producing 15 watts. This signal is amplified by the final transistor and then filtered by a five element low pass filter.

CIRCUIT DESCRIPTIONS

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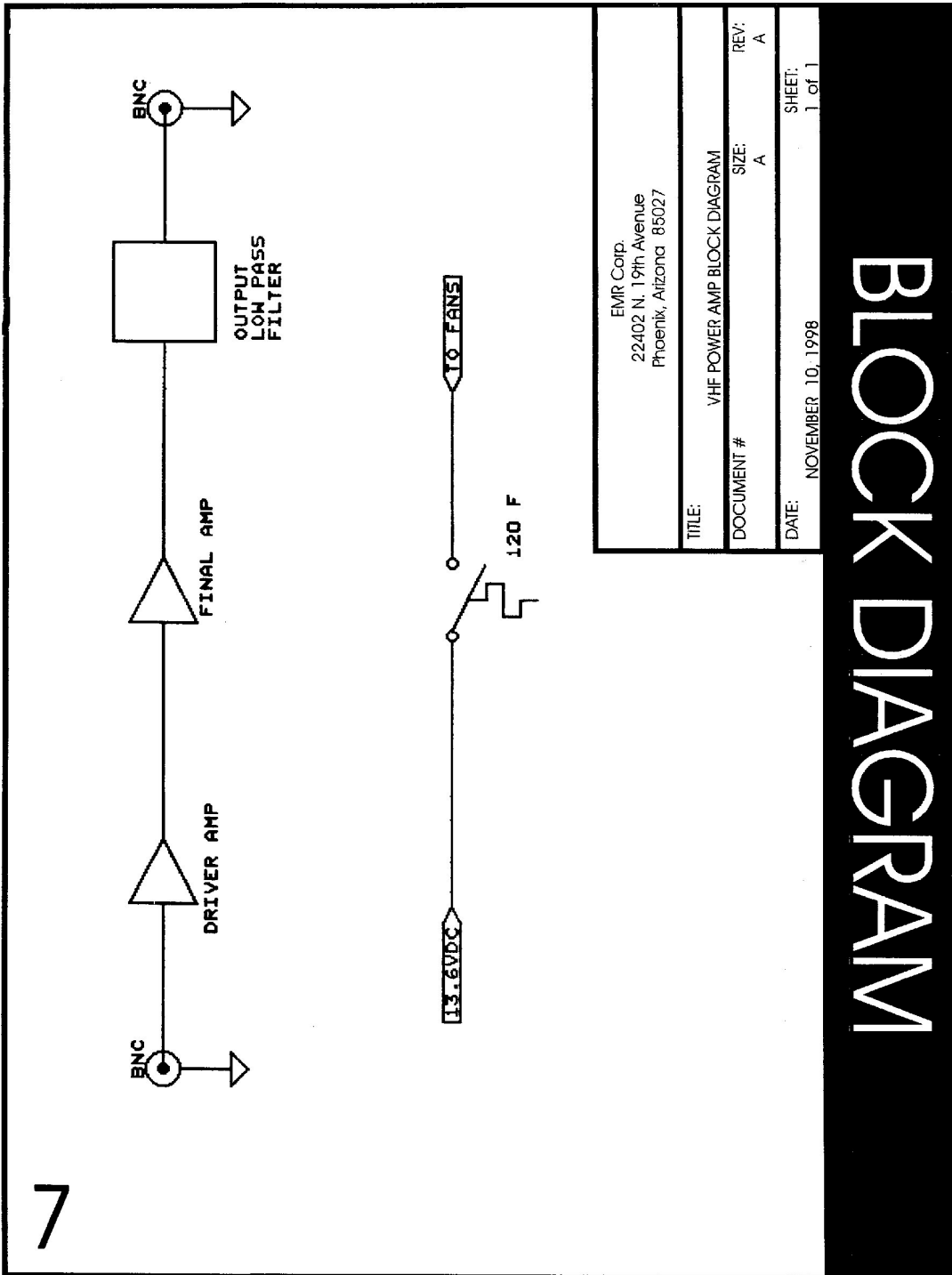


VHF 60 WATT AMP
150 - 170 MHz
Bill of Materials Feb. 24, 1997

ITEM	QUANTITY	REFERENCE	PART
1	1	C1,	270PF
2	4	C2,C3,C17,C19	220PF
3	2	C4, C18	43PF
4	2	C5,C26	10UF
5	7	C6,C7,C8,C9,C10, C11,C25	330PF
6	2	C12,C15	15PF
7	2	C13,C14	30PF
8	1	C16,	160PF
9	1	C20	100PF
10	1	C21	33PF
11	1	C22	2.2PF
12	1	C23	68PF
13	1	C24	120PF
14	2	J1,J2	TYPE N
15	1	L1	VK 20020/4B
16	2	L2,L3	6.5T
17	2	L4,L6	61NH
18	1	L5	67NH
19	3	L7,L8,L9	3.5T
20	1	Q1	MRF 221
21	1	Q2	MRF 247
22	3	R1,R2,R3	24
23	2	Z1,Z4	42 OHM
24	1	Z2	50 OHM
25	1	Z3	35.1 OHM
26	1	Z5	30.9 OHM
27	1	Z6	43 OHM

PARTS LIST

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EMR Corp. 22402 N. 19th Avenue Phoenix, Arizona 85027			
TITLE:	VHF POWER AMP BLOCK DIAGRAM	REV:	A
DOCUMENT #	SIZE: A	REV:	A
DATE:	NOVEMBER 10, 1998	SHEET:	1 of 1

BLOCK DIAGRAM

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:

EMR Corporation
22402 N. 19th Avenue
Phoenix, Arizona 85021
Tel: 602/581/2875 800/796/2875
E-mail: info@emrcorp.com
<http://www.emrcorp.com>
FAX: 602/582/9499

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WARRANTY INFORMATION