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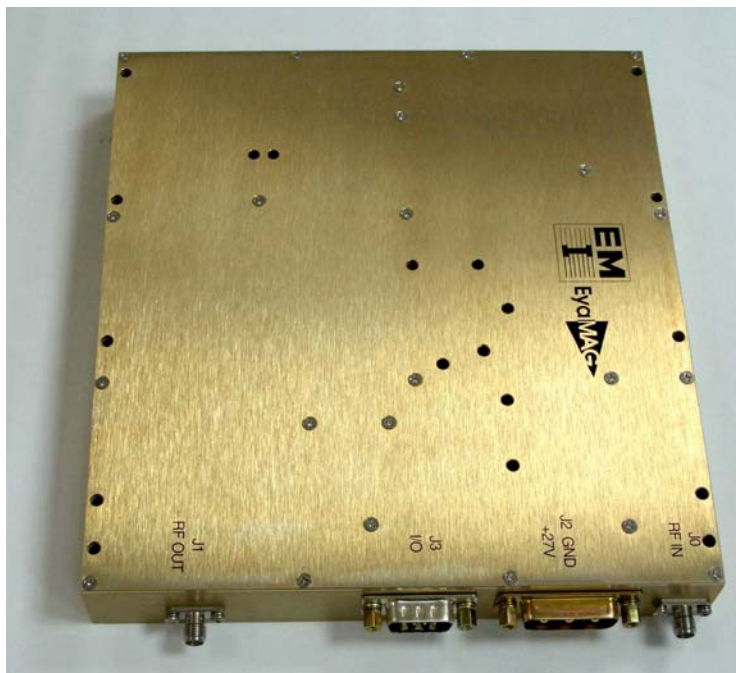


6 Watt LINEAR POWER AMPLIFIER Cellular 824 to 894 MHZ MODEL: LPA-4068

General Description of the Cellular Power Amplifier

This document specifies a 6 Watt Cellular multicarrier Power Amplifier,
Manufactured by EYAL MAG LTD,

Features:



- **824 to 894 MHz**
- **42 dB Gain**
- **6 W Output Power**
- **27 V DC Voltage Range**
- **- 20°C to +80°C Operating Temperature Range**
- **Alarms and interface per custom request**

INTRODUCTION

This catalog

- Summarizes guaranteed amplifier performance specifications.
- Provides typical performance data on some of our more popular models.
- Categorizes options to our standard catalog designs.
- Provides detailed outline drawings on all catalog models.



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SPECIFICATION SUMMARY FOR PCS POWER AMPLIFIER 4047-12

	<i>Specification</i>	<i>Note</i>
FREQUENCY RANGE	824÷894 MHz	
COMPOSITE AVERAGE OUTPUT POWER	37.8dBm	(6.0W)
GAIN	42 dB	± 1 dB
GAIN FLATNESS OVER FREQUENCY	± 0.75 dB	Max.
INPUT / OUTPUT VSWR	1.5:1	Max.
DC INPUT VOLTAGE	27V dc	
DC INPUT CURRENT	4.0A Max.	@ Pout = 6W
ABS Power at ± 3.125MHz, 6W 3 Carriers CDMA IS-95C	-13dBm / 100kHz	+ 25°C
IMD at ± 750 kHz offset 6W, 3 carriers CDMA IS – 95C	-45dBc / 30kHz	+ 25°C
IMD at +/- 1.98 MHz offset 6W 3 carriers CDMA IS – 95C	-60dBc / 30kHz	+ 25°C

ALARMS AND SIGNAL

<i>ALARMS, FUNCTIONS</i>	<i>AUTO RECOVERY</i>	<i>Note</i>
Overpower alarm at 41-43 dBm, 3 CDMA Carriers	Yes	
Reflected power alarm at 33-35 dBm, 3 CDMA Carriers	Yes	
Temperature Monitor, 500 mV+10mV / °C	Yes	
Over temperature alarm, 90°C	Yes	±2°C
Enable, active LOW	Yes	
Forward Power Monitor	3.6 ± 0.1V at 28 dBm 4.8 ± 0.1V at 40 dBm	
Overpower shutdown	41 – 43 dBm	