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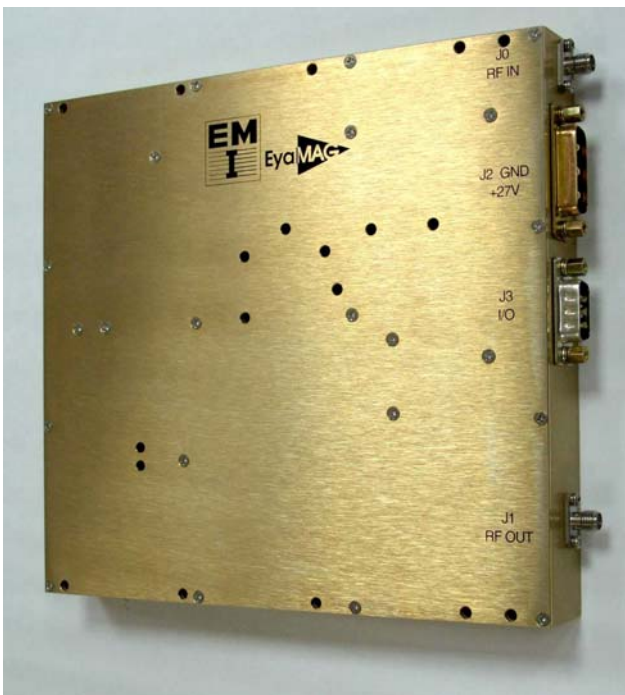


***28 Watt POWER AMPLIFIER  
WITH ANALOG PREDISTORTION LINEARIZER  
1930 to 1960 MHZ  
MODEL: LPA-4047-28***

**General Description of the Power Amplifier**

This Preliminary document specifies a 28 Watt PCS multicarrier Power Amplifier with Analog Predistortion Linearizer, Manufactured by EYAL MAG LTD,

**Features:**



- 1930 to 1960 MHZ
- 50 dB Gain
- 28 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 4047-24**

	<b>Specification</b>	<b>Note</b>
FREQUENCY RANGE	1930÷1960 MHz	
COMPOSITE AVERAGE OUTPUT POWER	44.5dBm	(28.0W)
GAIN	50 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	11A Max.	@ Pout = 28W
ABS Power at ± 2.25MHz, 28W 3 Carriers CDMA IS-95C	-13dBm / 1MHz	+ 25°C
IMD at +/- 750 kHz offset 28W, 3 carriers CDMA IS – 95C	-45dBc / 30kHz	+ 25°C
IMD at +/- 1.98 MHz offset 28W 3 carriers CDMA IS – 95C	-60dBc / 30kHz	+ 25°C

### **ALARMS AND SIGNAL**

ALARMS, FUNCTIONS	AUTO RECOVERY	Note
Overpower alarm at 48 dBm, 3 CDMA Carriers	Yes	
Reflected power alarm at 36-37 dBm, 3 CDMA Carriers	Yes	
Temperature Monitor, 500 mV+10mV / °C	Yes	
Over temperature alarm, 86°C	Yes	±2°C
Enable, active LOW	Yes	
Forward Power Monitor	2.4 ± 0.05V at 33dBm 4.8 ± 0.05V at 48 dBm	
Overpower shutdown	48 – 49 dBm	

### **PROTECTION SHUTDOWN**

Internal Temperature > 85°C, auto restart at 75°C	Yes	±2°C
Overpower at 48-49 dBm; enable to restart	Yes	
Over voltage 28.5V	Yes	