



Eyal MAG Ltd.

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14 Watt LINEAR POWER AMPLIFIER 1930 to 1990 MHZ MODEL: LPA-4047-14

General Description of the Power Amplifier

This document specifies a 14 Watt PCS multicarrier Power Amplifier,
Manufactured by EYAL MAG LTD,

Features:



- 1930 to 1990 MHZ
- 50 dB Gain
- 14 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 4047-14**

	Specification	Note
FREQUENCY RANGE	1930÷1960 MHz	
COMPOSITE AVERAGE OUTPUT POWER	41.5dBm	(14.0W)
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	6.0A Max.	@ Pout = 14W
ABS Power at ± 2.25MHz, 14W 3 Carriers CDMA IS-95C	-13dBm / 1MHz	+ 25°C
IMD at +/- 750 kHz offset 14W, 3 carriers CDMA IS – 95C	-45dBc / 30kHz	+ 25°C
IMD at +/- 1.98 MHz offset 14W 3 carriers CDMA IS – 95C	-60dBc / 30kHz	+ 25°C

ALARMS AND SIGNAL

ALARMS, FUNCTIONS	AUTO RECOVERY	Note
Overpower alarm at 46 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 45 dBm	
Overpower shutdown	46 – 47 dBm	