



Eyal MAG Ltd.

Phone: 972-9-7499100 Fax: 972-9-7493669

Kibbutz Eyal D.N. Hasharon Hatichon 45840 Israel

Web: www.eyal-mag.com Email: emi@eyal-emi.com



HIGH POWER AMPLIFIER

MODEL: PA-2106-01

ELECTRICAL SPECIFICATION

Operating Frequency Range	1350 ÷ 2690 MHz
Output Power at 1 dB C.P. High power mode	+ 44.5 dBm min @ 25 ° C +43 dBm min @ 80 ° C
Mode of Operations	Continuous operation 16QAM or II/4 QPSK modulation
Output IP3	+52 dBm min (two tones of +37 dBm will result in products lower then +7 dBm)
Spurious output	-80 dBc max @ Fo ± 12 MHz -60 dBc max @ Fo ± 500 MHz
Harmonics @ 43 dBm	-20 dBc @ 1350 MHz -25 dBc @ 1500 MHz
Gain	44dB min. (monotonous) The unit shall not be damaged by an input power of up to +13 dBm @ maximum gain.
Gain Variation over Temperature	5 dB max @ any frequency.
Gain Flatness @ 39 dBm	Within any segment of 10 MHz, the gain shall not vary by more than 0.5 dB p-p and not more that 5 dB p-p over the entire bandwidth. No internal AGC is allowed.
Input/Output Impedance:	50 Ω
Input/Output VSWR:	2.0:1 max
Mismatch Capabilities:	<ol style="list-style-type: none"> The unit shall work without damage into any load, from open to short, at any phase angle, under any specified operating combination of supply voltage, control voltage and environmental conditions. The amplifier shall not become unstable or evidence of parasitic oscillation when working into a load with a VSWR of up to 6:1 at any phase angle.
AM / PM Conversion:	2.5° / dB max
AM/AM Conversion:	0.45 dB/dB
Noise Figure	6 dB max @ max. Gain.
Supply Voltage (Vs)	+13V ± 0.5V/ -15V ± 0.5V
DC Power Consumption	
@ 43 dBm output power:	105W max @ 0 ÷ +50°C 125W max @ -40÷+80°C
@ No input power	60W max @ 0 ÷ +50°C 62W max @ -40÷+80°C



Eyal MAG Ltd.

Phone: 972-9-7499100 Fax: 972-9-7493669

Kibbutz Eyal D.N. Hasharon Hatichon 45840 Israel

Web: www.eyal-mag.com Email: emi@eyal-emi.com



GENERAL

Connectors:

J-1 RF IN

SMA (Female)

J-2 RF OUT

SMA (Female)

J-3 DC

15 pin D-Type (filtered male)

Pin assignment:

+13V (pins № 1,2,3,9,10)

-15V (pin № 8)

GND (pins № 4,5,11,12,13)

Physical Dimensions

see outline draw

Weight

1.5 Kg max