

# 50 W Linearized Power Amplifier

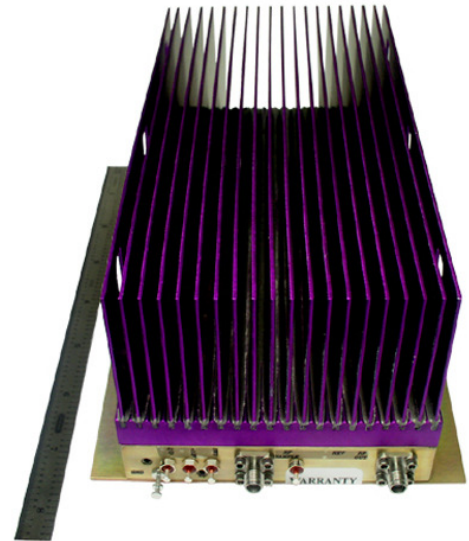
**COBHAM**

The most important thing we build is trust.

GMS' linear Power Amplifiers are specifically designed for C-OFDM and other demanding modulation schemes. This 50 W P1dB Linear Power Amplifier provides up to 8 Watts of C-OFDM power in a small economical package. This Class A Power Amplifier provides 55 dB of gain in a frequency band of 3.1 to 3.4 GHz. Typical third order intercept point is +63 dBm over the full band. These units are designed for rugged use and operate from 0° to +55° C with up to 95% humidity (non condensing).

## Specifications:

GMS Part Number:	PACGNPS1X
Mode Class:	A
Frequency Range <sup>1</sup> :	3.1 – 3.4 GHz
Gain:	55 dB +/- 1dB
Gain Flatness:	+/- 0.5 dB (+/- 1 dB over temp)
Power Input:	-8 dBm (Max.)
Power Out:	50 W (P1 dB), Useful to 8 W (C-OFDM)
DC Voltage:	+12 V
DC Current:	10 A
Input/Output Z, VSWR:	50 Ohm, 1.5:1/1.5:1
RF Connectors:	SMA-F
DC Power Connector:	Solder Pins
Temperature:	0° to +55° C
Humidity:	Up to 95% non-condensing
Size (inches):	7.5 x 4.0 x 0.79 = 23.7 cu. Inches (W/O heat sink) 7.5 x 5.0 x 3.3 = 123.8 cu. Inches (With heat sink)
Size (cm):	18.9 x 10.1 x 2.0 = 381.8 cu. cm (W/O heat sink) 18.9 x 12.7 x 8.3 = 1922 cu. cm (With heat sink)
Weight <sup>3</sup> :	4.25 lbs. = 1.9 kg
Over Voltage Protection	Yes
Thermal Protection	Yes, with Auto Reset
Temperature Compensation	Yes
TTL On/Off	Yes



<sup>1</sup> Consult factory for non-standard bands

Specifications subject to change without prior notice  
Typical values shown unless min or max is specified  
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