

MPS-0030H16-02

10 - 3000 MHz Linear Amplifier Preliminary Data Sheet June 2006

Features:

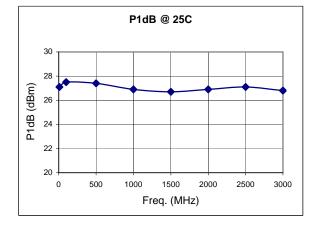
- 10 3000 MHz Freq Range
- 16 dB Gain
- 2.0:1.0 VSWR
- +27.0 dBm P1dB
- Single Positive Bias
- Leadless Surface Mount Package (02)



Description:

The MPS-0030H16-02 is an internally matched wide band modular amplifier. It is designed for both military and commercial applications such as LO driver, buffer amplifier, and as a medium power gain block. It is ideal for satellite up and down converter and telemetry applications, and for digital radio communications for military electronic systems and wireless communications. It requires a single 7 volt positive bias and only draws 240 MA DC current. The P1 dB is typically 27 dBm and the gain is 16 dB typically. It is available in a low cost Leadless surface mount package.

Electrical Specifications:					
SYMBOL	PARAMETERS	Min	Typical	Max	Unit
Freq.	Frequency Range	10		3000	MHz
SSG	Small Signal Gain	14.5	16.0		dB
P1 dB	Pout at 1 dB Comp Point	25.5	27		dBm
IP3	Third-Order Intercept		33.5		dBm
VSWR	VSWR (Input/Output)		2.0:1		
GOF	Gain Var. over Frequency		± 0.5	± 0.8	dB
GOT	Gain Var. over Temp		-0.015		dB/°C
ldd	DC Current		240	270	mA
Rth	Thermal Resistance		55		°C/W



Absolute Maximum Ratings

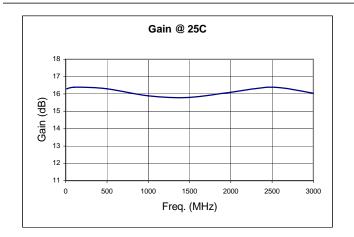
 \bigcirc 25°C Vdd \bigcirc 7.040 9.0 V 70 \bigcirc 50 chmc

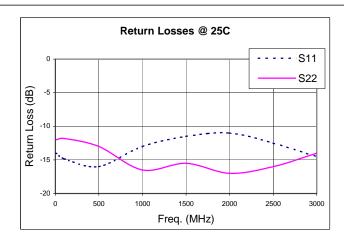
Maximum Bias Voltage	8.0 V		
Maximum RF Input Power	500 mW		
Maximum Channel Temperature	+175 °C		
Maximum Storage Temperature	- 65 °C to + 150 °C		



MPS-0030H16-02

10 - 3000 MHz Linear Amplifier Preliminary Data Sheet June 2006





Outline Diagram (Package 02)

