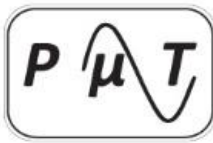


AMPLIFIER 5-500 MHz Small Footprint	PmT Amplifier Model: PmT-NSN-5-500 MHz
FEATURES: <ul style="list-style-type: none"> ■ Low Noise Figure ■ Sealed Module ■ Broadband Performance ■ Excellent Unit-to-Unit Repeatability ■ -50°C to 100°C Standard ■ RoHS Compliant 	
Typical Electrical Specifications (TA=25C)	
Parameters	Specifications
Frequency Range	5-500 MHz
Supply Voltage	14.70-15.30 V
Supply Current, max	300 mA
Overvoltage	+18 V
Reverse voltage	-50 V
Small Signal Gain(G002)	34-38 dB
Fine Gain variation over frequency	±0.5 dB
Input VSWR (50 ohms)	2.00:1 max
Output VSWR (50 ohms)	2.00:1 max
Power at 1 dB compression-P1dB (G002)	+13 dBm min
Overdrive Power response for -10 to 0 dBm in	≥P1 dB
Overdrive Power Level (no damage) DC power off	0 dBm min.
Harmonics at 4db below P1dB and lower	-15 dBc max.
Two tone Third-order Intermodulation intercept point (at -40 dBc/tone)	(P1dB+11) dBm min.
Noise Figure	10.0 dB max.
Operating Temperature	-25 °C to 70 °C
Storage Temperature	-55 °C to 125 °C
Typical Test Data (of actual device)	
Supply Voltage	14.70-15.30 V
Supply Current, max	160 mA
Overvoltage	passed
Reverse voltage	passed
Small Signal Gain(G002)	35.7 dB
Fine Gain variation over frequency	±0.1 dB
Input VSWR (50 ohms)	<1.7:1
Output VSWR (50 ohms)	<1.3:1
Power at 1 dB compression-P1dB (G002)	16.8 dBm
Overdrive Power response for -10 to 0 dBm in	≥16.4 dB
Overdrive Power Level (no damage) DC power off	passed



PRINCETON MICROWAVE TECHNOLOGY INC.

The SOURCE For High Performance Frequency Source

Harmonics at 4db below P1dB and lower	-15 dBc
Two tone Third-order Intermodulation intercept point (at -40 dBc/tone)	28.5 dBm
Noise Figure	<4.5 dB

Outline:

