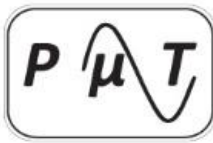


AMPLIFIER 150-450 MHz Small Footprint	PmT Amplifier Model: PmT-NSN-150-450 MHz
FEATURES: <ul style="list-style-type: none"> ■ Low Noise Figure ■ Sealed Module ■ Broadband Performance ■ Excellent Unit-to-Unit Repeatability ■ -50°C to 100°C Standard ■ RoHS Compliant 	
Typical Electrical Specifications (TA=25C)	
Parameters	Specifications
Frequency Range	150-450 MHz
Supply Voltage	14.55-15.45 V
Supply Current, max	120 mA
Overvoltage	+18 V
Reverse voltage	-50 V
Small Signal Gain (-10 to 0 dBm in) over frequency	12±1 dB
Small signal Gain over temperature, max	0.8 dB p-p
Power at 1 dB compression	+22 dBm min.
Small signal Gain(-10 to 0 dBm) out of band(10-150 MHz, > 450 MHz)	<1 dB above mid band
Input VSWR (50 ohms)	1.75 : 1 max
Output VSWR (50 ohms)	1.75 : 1 max
Reverse Isolation	15 dB max
Two-Tone Third-order intermodulation intercept point (0 dBm/tone)	+35 dBm min
Two-Tone Second harmonic (150-200MHz) intercept point. (0 dBm/tone)	+55 dBm min.
High Input Power Level (no damage)	+15 dBm min
Noise Figure	6.5 dB max
Warm-up time-Gain and P1dB measured	5 Minutes
Operating Temperature	-25 °C to 70 °C
Storage Temperature	-55 °C to 125 °C
Typical Test Data (of actual device)	
Supply Voltage	15 V
Supply Current, max	119 mA
Overvoltage	>+18 V
Reverse voltage	<-50 V
Small Signal Gain (-10 to 0 dBm in) over frequency	12.3 dB
Small signal Gain over temperature, max	<0.2 dB p-p
Power at 1 dB compression	+23.1 dBm

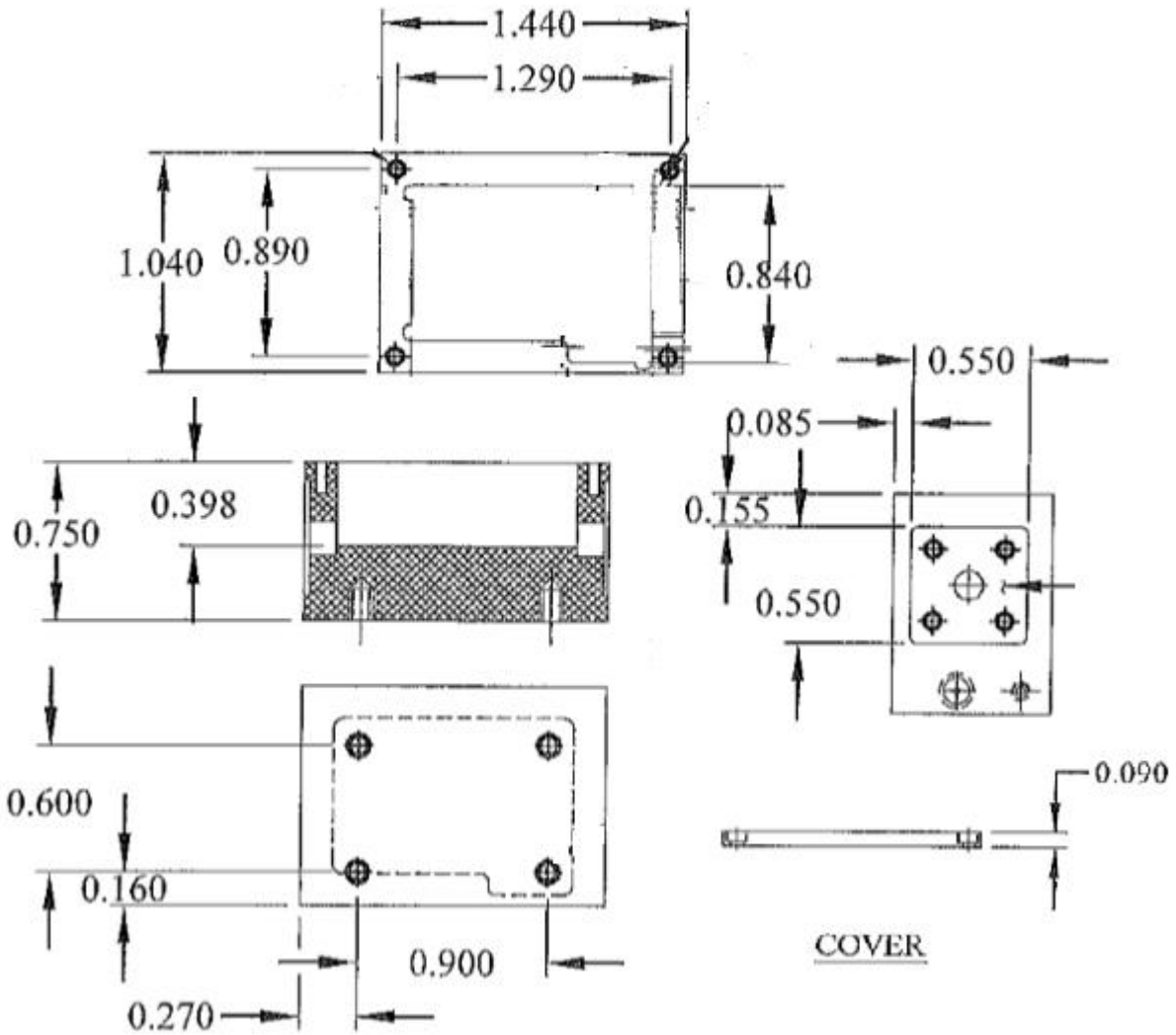


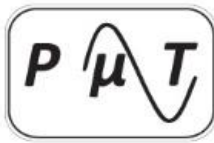
PRINCETON MICROWAVE TECHNOLOGY INC.

The SOURCE For High Performance Frequency Source

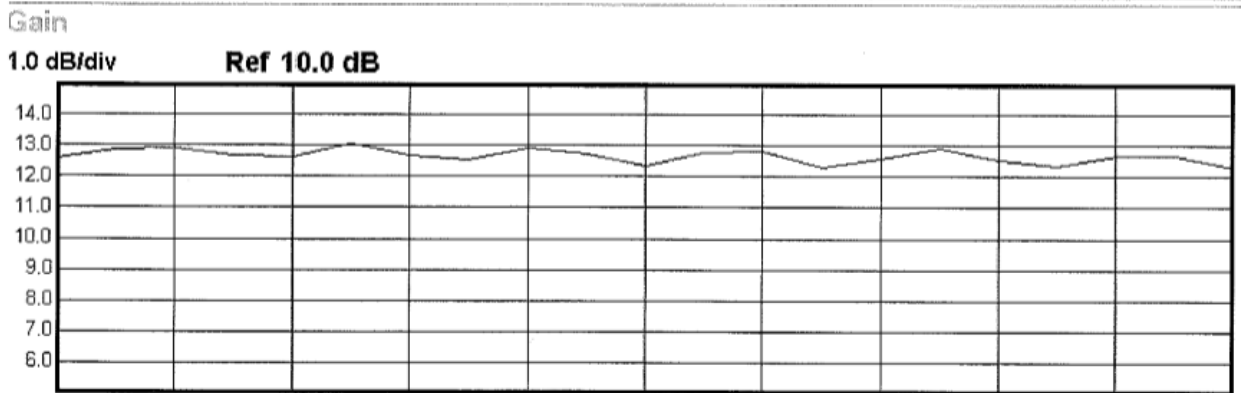
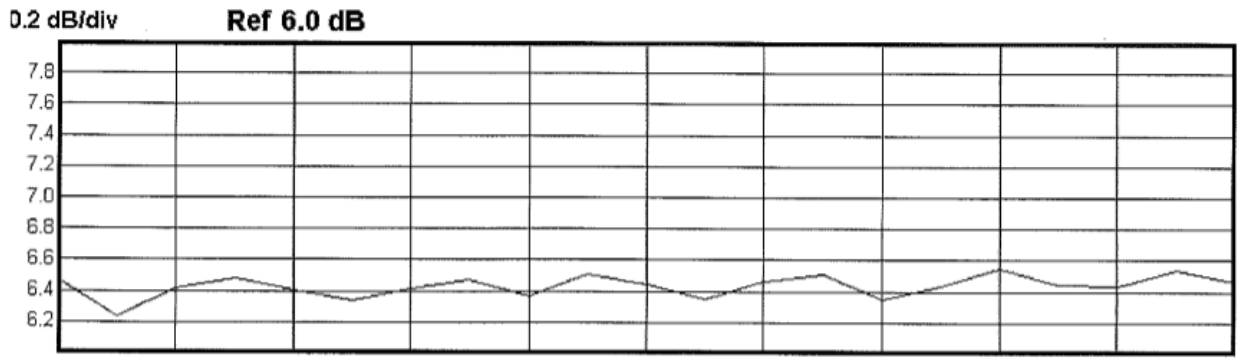
Small signal Gain(-10 to 0 dBm) out of band(10-150 MHz, > 450 MHz)	< mid
Input VSWR (50 ohms)	1.06 : 1
Output VSWR (50 ohms)	1.4 : 1
Reverse Isolation	14 dB
Two-Tone Third-order intermodulation intercept point (0 dBm/tone)	+36 dBm
Two-Tone Second harmonic (150-200MHz) intercept point. (0 dBm/tone)	+5 dBm
High Input Power Level (no damage)	>15 dBm
Noise Figure	6.5 dB
Warm-up time-Gain and P1dB measured	<1 Minutes

Outline:





Graph: Phase Noise and Gain



Start 150.00000 MHz Stop 450.00000 MHz
BW 4.0 MHz Tcold 296.50 K (Default) Points 21