



Power Amplifiers 7.9 to 8.4 GHz Small Footprint	PmT-Power Amp Model: PmT-PA-7984-10
FEATURES: <ul style="list-style-type: none"> ■ MMIC and Discrete Devices ■ Single Supply ■ Low Noise Figure ■ Unconditionally Stable ■ Sealed Module ■ Internal Voltage Regulator ■ -50°C to 100°C Standard 	

Electrical Specifications (TA=25C)

Parameters	Specifications
Frequency	7.9 to 8.4 GHz
Power Output @ -1 dB	39 dBm
Power Saturated	40.5 dBm
IMD @38.5 dBm	-30 a
Gain	35 dB
Gain Flatness	+/- 0.5
VSWR	1.4:1
Stability	Unconditional
Noise Figure	5 dB
Spurious	<-80 dBc
Harmonics	<-25 dBc
Voltage	12 V
Current at IMD	3.9 Amps
Current at Saturation	5.5 Amps
Operating Temperature	-25 °C to 70 °C
Storage Temperature	-55 °C to 125 °C

Typical Test Data:

Parameter	Units	SPECIFICATION	Measured		
			7.925 GHz	8.15 GHz	8.375 GHz
Frequency	GHz	7.9 to 8.4	7.925	8.15	8.375
Gain	dB	35	37	36.4	36.7
Gain Flatness	dB	+/- 1	+/-0.5	+/-0.5	+/-0.5
Stability			Unconditional	Unconditional	Unconditional
Power P-1	dBm	39 min	40.4	40.5	40.4
Power-Sat	dBm	40	41	41.3	41.2
IMD	dBc	-25 at P-1 @38.5	-30 @ 3.9A	-31 @ 4.0A	-29 @ 4.1A
IMD -Pdiss	Watts		39	40	41
Voltage	V	12 max	10	10	20
Current @ PSAT	Amps		5.5	5.4	5.3
PowerConsumption	Watts	<45 At PSAT	55	54	53
Case Temp	°C		Mounted on Heat Sink 45		

