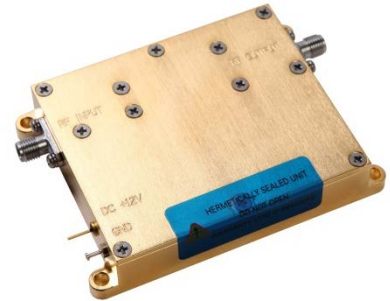




**Specification for a 1-12GHz 2W Power Amplifier**  
**MtronPTI P/N: PA1082X-0622**



**FEATURES**

- Class AB GaAs design
- Instantaneous ultra wide Bandwidth
- Built-in protection circuits
- High reliability and ruggedness

**ELECTRICAL SPECIFICATIONS**

Parameter	Specification	Notes
Operating Frequency Range	1 - 12 GHz	
Power Output Psat	2Watt Min / 4 Watt Typ.	
Power Output P1dB GCP	1 Watt	CW
Small Signal Gain	33 dB Min	
Power Gain Flatness	4 dB p-p Max	
Input Return Loss	>10 dB Typ	
Harmonics	>20 dBc	At rated Pout
Noise Figure	10 dB Max	
Spurious	>60 dBc	Non Harmonics
Operating Voltage	28 VDC Nom	
Current Consumption	1.5 Amp	At rated Pout
Max Input Power	+3 dBm Max	Without damage
Load VSWR	5 : 1 Max	

**ENVIRONMENTAL CHARACTERISTICS**

Parameter	Specification	Notes
Operating Case Temperature	-20 to +70 °C	
Storage Temperature	-40 to +85 °C	
Relative Humidity	5 to 95 %	Non Condensing

**MECHANICAL SPECIFICATIONS**

Parameter	Specification	Notes
Dimensions	100 X 90 X 22 mm	Excluding Connectors
Weight	TBD	
RF Connectors In/Out	SMA female	Cover Flange
DC Power	Feed Thru	
Cooling	External Heatsink	Forced air required

**PIN ASSIGNMENT**

Pin	Function	Description
1	DC Voltage	+28VDC
2	GND	GND



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**OUTLINE DRAWING**

