



MPA1138 SOLID STATE MEDIUM POWER AMPLIFIER

FEATURES

- Class AB GaAs linear design
- Instantaneous wide Bandwidth
- Suitable for all single channel modulation standards
- Built-in protection circuits
- High reliability and ruggedness



ELECTRICAL SPECIFICATIONS: 50Ω, 25°C

Parameter	Specification	Notes
Operating Frequency Range	6.0 - 18.0 GHz	
Power Output Psat	2 Watt Min / 2.5 Watt Typ	CW
Power Output P1dB GCP	2 Watt Min	CW
Power Gain	33 dB Min	
Power Gain Flatness	3 dB p-p Max	
Input Return Loss	-10 dB Max	Relative to 50 Ohm
Harmonics	-20 dBc Typ	At rated Pout
Spurious	-60 dBc Max	Non-harmonics
Noise Figure	10 dB Max	
Operating Voltage	12 VDC Nom	
Current Consumption	2.5 Amp Max / <2.0 Amp Typ	At rated Pout
Input Power Protection	+3 dBm Max	<10 Sec 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	30 x 36 x 10 mm	Excluding connectors
Weight	-	
RF Connectors In/Out	Hi Freq. SMA female	
DC Power	Feed Thru	
Mounting Holes	4 Nos., M 2.7 through holes	
Sealing	Hermetic	

PIN ASSIGNMENT

Pin	Function	Description
1	DC Voltage	+12VDC
2	GND	GND

OUTLINE DRAWING

