

## FEATURES

- Coax Solid-State Power Amplifier
- ECCN: 3A001b.2.d
- Unconditionally stable
- Internal voltage regulator
- Reverse polarity protection



## ELECTRICAL SPECIFICATIONS: 50Ω, 25°C

Parameter	Specification	Notes
Operating Frequency Range	18 - 40 GHz	
Output Power @ Psat	27 dBm Min	CW
Linear Gain	30 dB Min / 40 dB Max	
Gain Flatness	±3.0 dB Typ / ±4.0 dB Max	
Input / Output VSWR	2 : 1 Typ / 2.5 : 1 Max	
Noise Figure	8 dB Max / 6 dB Typ	
DC Bias Voltage	+15 VDC Min / +18 VDC Max	
DC Current	3.0 Amp Typ	
Input Power Protection	+20 dBm CW	Without damage

## ENVIRONMENTAL CHARACTERISTICS

Parameter	Specification	Notes
Operating Case Temperature	0 to +50 °C	
Storage Temperature	-0 to +85 °C	Non-operating
Humidity <sup>1</sup>	MIL-STD-202F, Method 103B, Condition B (95%)	
Shock <sup>1</sup>	MIL-STD-202F, Method 213B, Condition B	
Altitude <sup>1</sup>	MIL-STD-202F, Method 105C, Condition B	
Temp Cycle <sup>1</sup>	MIL-STD-202F, Method 107D, Condition A	

## MECHANICAL SPECIFICATIONS

Parameter	Specification	Notes
Dimensions (L x W x H)		
Input / Output RF Connectors	2.9 mm K-Female	

## Notes:

1. Designed to meet.



**MPA3003**  
**Medium Power Amplifier**

**OUTLINE DRAWING**