



AMP1001 SOLID STATE HIGH POWER AMPLIFIER

FEATURES

Class AB linear LDMOS design
Instantaneous bandwidth
Suitable for all modulations standards
Built-in protection circuits
High reliability and ruggedness

ELECTRICAL SPECIFICATIONS

Parameter	Specification	Notes
Operating Frequency Range	1150 - 1350 MHz	
Power Output	200 Watt Min	CW
Power Gain	55 dB $\pm$ 1.0dB	
Input Power for Rated Output	-2 dBm	
Power Gain Flatness	$\pm$ 1.0 dB	
Gain Variation Over Temperature	$\pm$ 1.5 dB	Rated case temperature
Input / Output VSWR	-1.35:1 / 2:1	Relative to 50 Ohm
2-Tone Intermodulation (IMD)	-29 dBc	40dBm/Tone, Δ = 1MHz
Operating Voltage	28 VDC $\pm$ 0.5 V	
Current Consumption	20 Amp	At rated Pout
Max Input Power	+8 dBm	Without damage
Load VSWR Protection	5 : 1	

ENVIRONMENTAL CHARACTERISTICS

Parameter	Specification	Note
Operating Case Temperature	-30 to +75 °C	
Storage Temperature	-40 to +85 °C	
Relative Humidity	5 to 95 %	Non Condensation

MECHANICAL SPECIFICATIONS

Parameter	Specification	Value
Dimensions	12 x 8.0 x 1.5 Inch	
Weight	TBD lb.	
RF Connectors In / Out	SMA female / Type N female	
DC Power / Interface Connector	3W3P / TBD	
Cooling	External Heatsink	Forced air required