



AMP1136Z SOLID STATE HIGH POWER AMPLIFIER

FEATURES

- Class AB linear LDMOS design
- Instantaneous ultra-wide bandwidth
- Suitable for all single channel modulation standards
- Built-in protection circuits
- High reliability and ruggedness
- Small form factor, high power density



ELECTRICAL SPECIFICATIONS: 50Ω, 25°C

Parameter	Specification	Notes
Operating Frequency Range	80 - 1000 MHz	
Power Output Psat	200 Watt Min	CW
Power Gain	20 - 30 dB Nom	
Gain Flatness	3.0 dB p-p Max	Constant input power
Input Return Loss	-10 dB Max	Relative to 50 Ohm
2-Tone Intermodulation (IMD)	-30 dBc Typ	43dBm/Tone, Δ = 1MHz
Harmonics	-20dBc Typ	At rated Pout
Non Harmonics Spurious	-60 dBc Max	
Operating Voltage	28 - 32 VDC Nom	
Current Consumption	24 Amp Max	At rated Pout
Operating Input Power	2 Watt Max	-
Load VSWR Protection	5 : 1 Max	<1 minute at rated Pout
Turn On / Off Speed	5 μSec Max	

ENVIRONMENTAL CHARACTERISTICS

Parameter	Specification	Notes
Operating Case Temperature	-20 to +75 °C	
Storage Temperature	-40 to +85 °C	
Relative Humidity	5 to 95 %	Non-condensing

MECHANICAL SPECIFICATIONS

Parameter	Specification	Notes
Dimensions	162 x 100 x 30 mm	Excluding connectors
Weight	-	
RF Connectors In/Out	SMA female / Type-N female	
DC Power / Interface Connector	7-Pin Hybrid D-Sub	
Cooling	External Heatsink	Forced air required

D-SUB CONNECTOR PIN ASSIGNMENT

Pin	Function	Description
1	FWD	N/C
2	REV	N/C
3	CURRENT SENSOR	I _b @20mV/100mA Typ
4	TEMP SENSOR	V _T @10mV/°C + 500mV Typ
5	SHUTDOWN	TTL
A1	VDD	28-32VDC
A2	GND	Ground

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OUTLINE DRAWING

