

AMP1067B SOLID STATE HIGH POWER AMPLIFIER

FEATURES

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



ELECTRICAL SPECIFICATIONS - 50Ω, 25 °C

Parameter	Specification	Notes
Operating Frequency Range	0.15 - 30 MHz	Functional to 1.0GHz
Output Power @ Psat	25 Watt Min	CW
Power Gain	44 dB Min	
Power Gain Flatness	4 dB p-p Max	Constant input power
Input Return Loss	-10 dB Max	Relative to 50 Ohm
2-Tone Intermodulation (IMD)	<-30 dBc Typ	30dBm/Tone, Δ = 1MHz
Harmonics	2 nd	-14 dBc Typ
	3 rd	-25 dBc Typ
Spurious	-60dBc Max	Non-harmonics
Operating Voltage	28 - 30 VDC	
Current Consumption	2 Amp Max	At rated Pout
Input Power Protection	+8 dBm Max	<10 Sec without damage
Load VSWR Protection	∞ : 1	<1 minute at rated Pout

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	150 x 63 x 33 mm	Excluding connectors
Weight	500 gr.	
RF Connectors In/Out	SMA female	
DC Power / Interface Connector	9-Pin D-Sub	
Cooling	External Heatsink	Forced air required

D-SUB CONNECTOR PIN ASSIGNMENT

Pin	Function	Description
1	FWD	N/A
2	VVA	Option-103 - Analog Gain Control
3	CURRENT SENSOR	I _b @50mV/100mA Typ
4	TEMP SENSOR	V _T @10mV/°C + 500mV Typ
5	SHUTDOWN	TTL
6, 7	VDD	28VDC
8, 9	GND	Ground



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OUTLINE DRAWING