

**AMP0618-40
SOLID STATE HIGH POWER AMPLIFIER**



FEATURES

- Class AB linear hybrid GaAs and GaN design
- Instantaneous ultra-wide bandwidth
- Suitable for all single channel modulation standards
- Suitable for S, X and Ku band applications
- Built-in protection circuits
- High reliability and ruggedness

ELECTRICAL SPECIFICATIONS

Parameter	Specification	Notes
Operating Frequency Range	6.0 - 18.0 GHz	
Power Output at Psat	40 Watt Min	CW
Power Gain	46 dB Min	
Power Gain Flatness	4.0 dB p-p Max	
Input Return Loss	10 dB Min	
Harmonics	-20 dBc Typ	At rated Pout
Spurious	-60 dBc Max	Non-harmonics
Noise Figure	10 dB Max	
Operating Voltage	32 VDC Nom	
Current Consumption	15 Amp Max / <14 Amp Typ	At rated Pout
Input Power Protection	+3 dBm Max	<10 Sec without damage
Load VSWR Protection	3 : 1 Max	<1 minute @ rated Pout

ENVIRONMENTAL CHARACTERISTICS

Parameter	Specification	Notes
Operating Case Temperature	-20 to +65°C	
Storage Temperature	-40 to +85°C	
Relative Humidity	5 to 95 %	Non-condensation

MECHANICAL SPECIFICATIONS

Parameter	Specification	Notes
Dimensions	180 x 200 x 27 mm / (7.09 x 7.87 x 1.06 inch)	Excluding connectors
Weight	5.15 Kg	
RF Connectors In/Out	SMA female	Cover Flange
DC Power / Interface Connector	7-Pin Hybrid D-Sub	
Cooling	External Heatsink	Forced air required

D-SUB CONNECTOR PIN ASSIGNMENT

Pin	Function	Description
1	GND	Ground
2	N/C	N/A
3	Current Sensor	I _b @20mV/100mA Typ
4	Temp. Sensor	V _T @10mV/°C + 500mV Typ
5	Shutdown	Enable = TTL "Hi" or open / Disable = TTL "Lo" or short
A1	VDD	32VDC
A2	GND	Ground

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OUTLINE DRAWING

