

AMP5041 SOLID STATE HIGH POWER AMPLIFIER



FEATURES

- High Power Linear GaAsFET design
- Narrow Ku Band
- Suitable for all single channel modulation standards
- Built-in protection circuits
- High reliability and ruggedness

ELECTRICAL SPECIFICATIONS

Parameter	Specification	Notes
Operating Frequency Range	18.0 GHz	
Power Output Past	25 Watt Min	CW
Power Gain	44 dB Min	
Input Return Loss	10 dB Min	
Harmonics	>20 dBc	At rated Pout
Non Harmonics Spurious	>60 dBc	
Noise Figure	8.0 dB Max	
Operating Voltage	12 VDC Nom	
Current Consumption	22 Amp Max	
Max Input Power	+3 dBm Max	<10 Seconds
Load VSWR Protection	5 : 1	

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	170 X 180 X 27 mm	Excluding Connectors
Weight	1.7 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		N/A
2		N/A
3	Current Sensor	$I_D @ 20mV/100mA$ Typ
4	Temp Sensor	$V_T @ 10mV/^{\circ}C + 500mV$ Typ
5	Shutdown	TTL
A1	VDD	12VDC
A2	GND	Ground

OUTLINE DRAWING

