

AMP3075

SOLID STATE HIGH POWER AMPLIFIER

3075

FEATURES

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



ELECTRICAL SPECIFICATIONS

Parameter	Specification	Notes
Operating Frequency Range	18.0 - 26.0 GHz	
Power Output	4 Watt Min	CW
Power Output	3 Watt Typ	P1dB
Power Gain	36 dB Min	
Power Gain Flatness	6.0 dB p-p Max	Constant input power
Input / Output Return Loss	10 dB Min	Relative to 50 Ohm
Harmonics	>15 dBc Typ	At rated Pout
Non Harmonics Spurious	>60 dBc	
Operating Voltage	9.0 VDC Nom	
Current Consumption	10.0 Amp Max	At rated Pout
Max Input Power	+10 dBm	Without damage
Load VSWR Protection	$\infty : 1$	

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	140 X 150 X 27 mm	Excluding Connectors
Weight	700g	
RF Connectors In/Out	Hi Freq. SMA 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	N/C	Reserved
2	N/C	Reserved
3	N/C	Reserved
4	N/C	Reserved
5	SHUTDOWN	TTL
A1	VDD	9VDC
A2	GND	Ground



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OUTLINE DRAWING

