AMP3033
SOLID STATE HIGH POWER AMPLIFIER

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	24.0 - 31.0 GHz	
Power Output	10 Watt Min	CW
Power Gain	45 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	>25 dBc Typ	At rated Pout
Non Harmonics Spurious	>60 dBc Min	
Noise Figure	10 dB Max	
Operating Voltage	6.0 VDC Nom	
Current Consumption	Amp Max	At rated Pout
Max Input Power	dBm	Without damage
Load VSWR Protection	5 : 1	

ENVIRONMENTAL CHARACTERISTICS

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

MECHANICAL SPECIFICATIONS

Parameter	Specification	Notes
Dimensions	210 X 160 X 30 mm	Excluding Connectors
Weight	TBD	
RF Connectors In/Out	SMA/K Type Jack	
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	CURRENT SENSOR	I_D@20mV/100mA Typ
4	TEMP SENSOR	V_T@10mV/°C + 500mV Typ
5	SHUTDOWN	TTL
A1	VDD	6VDC
A2	GND	Ground

EXODUS ADVANCED COMMUNICATIONS

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OUTLINE DRAWING