EXODUS ADVANCED COMMUNICATIONS

AMP3029
SOLID STATE HIGH POWER AMPLIFIER

FEATURES

Class AB linear GaAs 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 - 26.5 GHz	
Power Output	10 Watt Min	CW
Power Gain	40 dB Min	
Power Gain Flatness	4.0 dB p-p Max	Constant input power
Input / Output Return Loss	10 dB Min	Relative to 50 Ohm
Harmonics	>20 dBc Typ	At rated Pout
Non Harmonics Spurious	>60 dBc Min	
Operating Voltage	9.0 ± 0.1 VDC Nom	
Current Consumption	20.0 Amp Max	At rated Pout
Max Input Power	+5 dBm	Without damage
Load VSWR Protection	5 : 1	

ENVIRONMENTAL CHARACTERISTICS

Parameter	Specification	Notes
Operating Case Temperature	-20 to +55 °C	
Storage Temperature	-40 to +85 °C	
Relative Humidity	5 to 95 %	Non Condensation

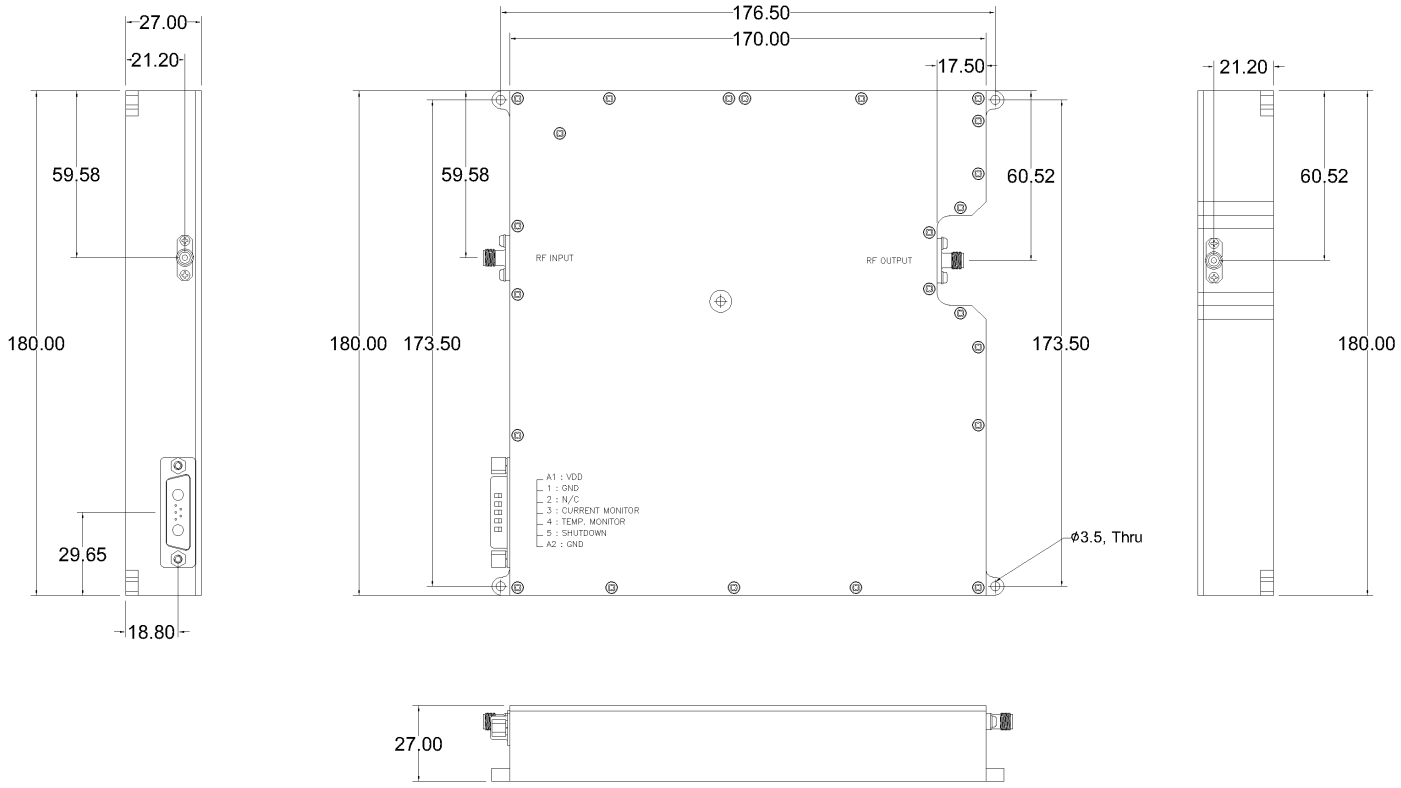
MECHANICAL SPECIFICATIONS

Parameter	Specification	Notes
Dimensions	170 X 180 X 27 mm	Excluding Connectors
Weight	1.5 Kg	
RF Connectors In/Out	2.92mm(K) / 2.92mm(K)	
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	9VDC
A2	GND	Ground

EXODUS ADVANCED COMMUNICATIONS

AMP3029
SOLID STATE HIGH POWER AMPLIFIER

OUTLINE DRAWING