



# AMP3018 SOLID STATE HIGH POWER AMPLIFIER

## FEATURES

Class AB linear LDMOS design  
 Built-in input GaAsFET switch for fast pulse modulations  
 Suitable for all CW and pulse  
 Built-in monitoring and protection circuits  
 High reliability and ruggedness

## ELECTRICAL SPECIFICATIONS

Parameter	Specification	Notes
Operating Frequency Range	1020 - 1040 MHz	
Power Output Psat	60 Watt Min	CW/Pulse
Power Gain	48 dB Min	
Power Gain Flatness	1.0 dB p-p Max	
Input Return Loss	10 dB Min	Relative to 50 Ohm
2-Tone Intermodulation (IMD)	>30 dBc Typ	39dBm/Tone, Δ = 1MHz
Harmonics	> 30dBc Typ	At rated Pout
Non Harmonics Spurious	>60 dBc	
Operating Voltage	28 VDC Nom	
Current Consumption	7 Amp Max	At rated Pout
Max Input Power	+10 dBm	Without damage
Load VSWR Protection	∞ : 1 Min	

## ENVIRONMENTAL CHARACTERISTICS

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

## MECHANICAL SPECIFICATIONS

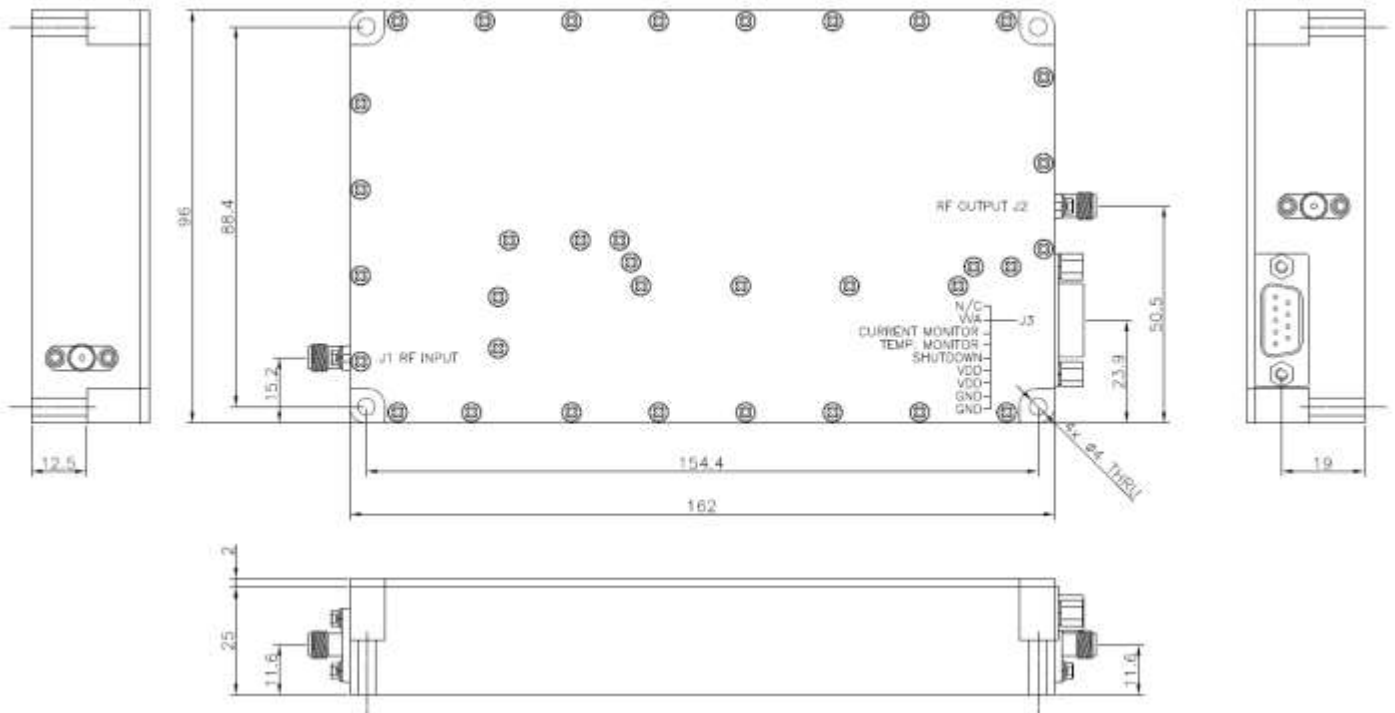
Parameter	Specification	Notes
Dimensions	Option-00 - 162 x 96 x 27 mm Option-01 - 200 x 100 x 27 mm	Excluding Connectors
Weight	975 gr.	Max Weight
RF Connectors In/Out	SMA female	
DC Power / Interface Connector	9-Pin D-Sub	
Cooling	External Heatsink	Forced air required

## D-SUB CONNECTOR PIN ASSIGNMENT

Pin	Function	Description
1	FWD	Option-101 - Analog Forward Power Indicator
2	VVA	N/C
3	CURRENT SENSOR	I <sub>D</sub> @50mV/100mA Typ
4	TEMP SENSOR	V <sub>T</sub> @10mV/°C + 500mV Typ
5	SHUTDOWN	TTL "Hi" = Disable Function @ 50mS ( <b>Option:</b> 5uS Trigger/Pulse Modulator)
6, 7	VDD	28VDC
8, 9	GND	Ground

# AMP3018 SOLID STATE HIGH POWER AMPLIFIER

OUTLINE DRAWING - STANDARD



OUTLINE DRAWING - OPTION 101

