HD31227
SOLID STATE HIGH POWER AMPLIFIER

FEATURES

Class AB broadband linear LDMOS design
4 Bands, one housing
4 Inputs & 4 Outputs
Common Monitoring & Protection circuit
Suitable for all modulations standards
High reliability and ruggedness

ELECTRICAL SPECIFICATIONS

Parameter	Band A & B	Band C	Band D	Notes
Operating Frequency Range (MHz)	20 - 500	500 - 2500	2500 - 6000	4 Bands
Power Output Psat	20 Watt Min			CW
Power Gain	43 dB Min			
Power Gain Flatness	3.0 dB p-p Max			
Input Return Loss	10 dB Min			Relative to 50 Ohm
2-Tone Intermodulation (IMD)	>30 dBc Typ			33dBm/Tone, Δ = 1MHz
Harmonics	>20 dBc Typ			At rated Pout
Non Harmonics Spurious	>60 dBc			
Operating Voltage	28 - 30 VDC Nom			
Current Consumption (Amp)	3 + 3 Amp	4 Amp	4Amp	At rated Pout
Max Input Power	+8 dBm			Without damage
Load VSWR Protection	∞ : 1 Min			
Turn On / Off Speed	5 µSec Max			

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

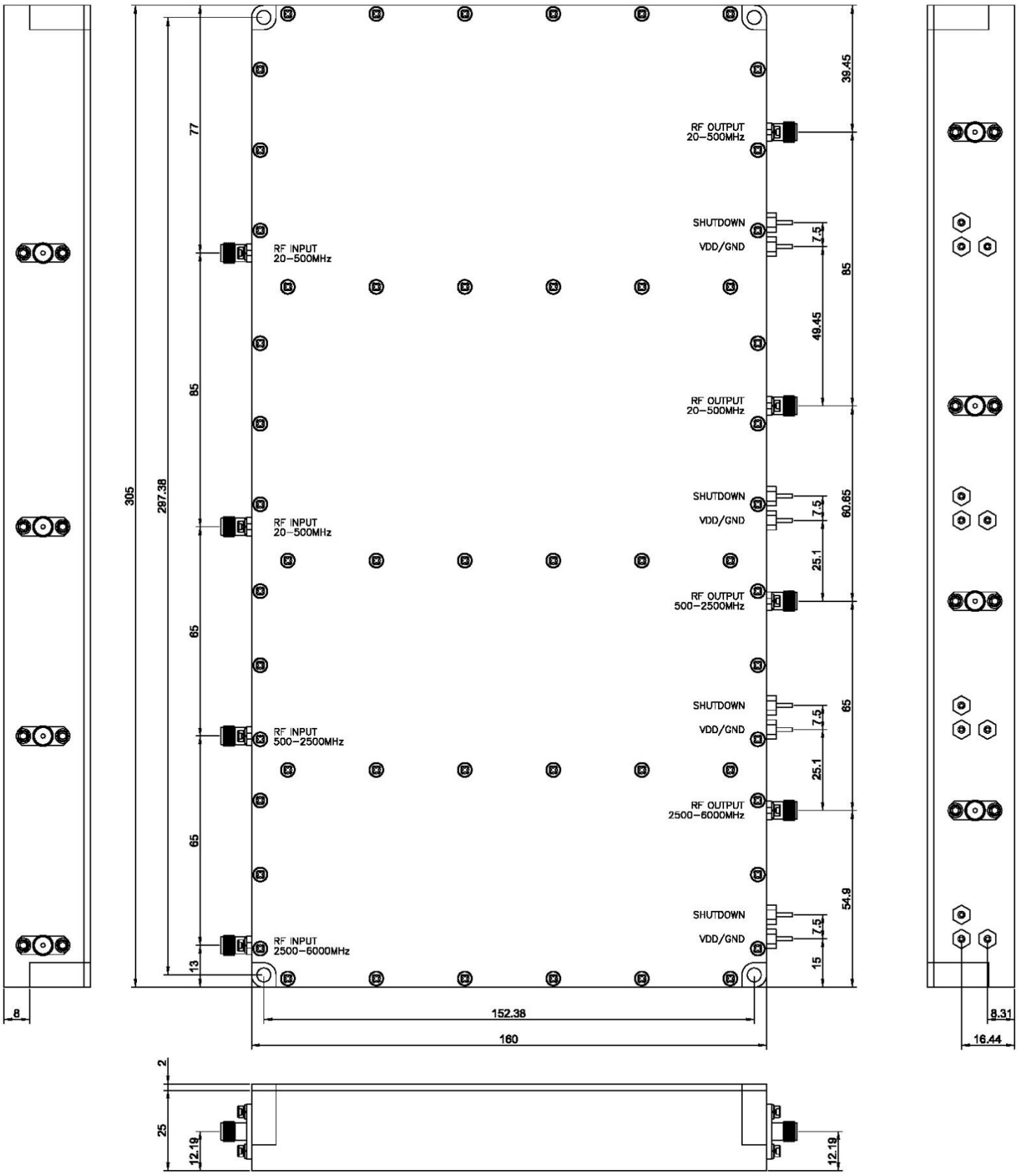
Parameter	Specification	Notes
Dimensions	160 X 305 X 27 mm	Excluding Connectors
Weight	TBD gr.	Max Weight
RF Connectors In/Out	SMA female	
DC Power / Interface Connector	Feed Thru	Per outline drawing
Cooling	External Heatsink	Forced air required

332C Dante Ct. Holbrook, NY 11741 Phone: 631-588-3877 Fax: 631-648-0518
sales@rfamplifiers.com www.rfamplifiers.com

Communications Corp.

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OUTLINE DRAWING



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