HD31016
SOLID STATE HIGH POWER AMPLIFIER

FEATURES

NEMA enclosure
Class AB hybrid GaAsFET design
K Band linear applications
Suitable for all single channel modulation standards
Built-in protection circuits
High reliability and ruggedness



ELECTRICAL SPECIFICATIONS @ 25 °C

Parameter	Specification	Notes
Operating Frequency Range	24.475 - 25.95 GHz	24 - 26 GHz Typ
Power Output CW	12 Watt Typ	CW
Power Output @ P1dB	10 Watt Min	
Small Signal Gain	42 dB Min	
Input Power	-20 dBm to 5 dBm	
Power Gain Flatness @ Full Band / 80MHz BW	3.0 dB p-p / 1.0 dB p-p Max	Constant input power
Noise Figure	8 dB Max	
Input / Output Return Loss	12 dB Min	Relative to 50 Ohm
Harmonics	-50 dBc Typ	At rated Pout
Spurious	-60 dBc Max	Non-harmonics
Operating Voltage	120 VAC, 60 Hz Nom	
Power Consumption	150 Watt Max	At rated Pout
Max Input Power Protection	+8 dBm Max	<10Sec without damage
Load VSWR Protection	∞ : 1	<1 minute at rated Pout

ENVIRONMENTAL CHARACTERISTICS

Parameter	Specification	Notes
Operating Ambient Temperature	-10 to +50 °C	
Storage Temperature	-20 to +75 °C	
Relative Humidity	5 to 95 %	Outdoors

MECHANICAL SPECIFICATIONS

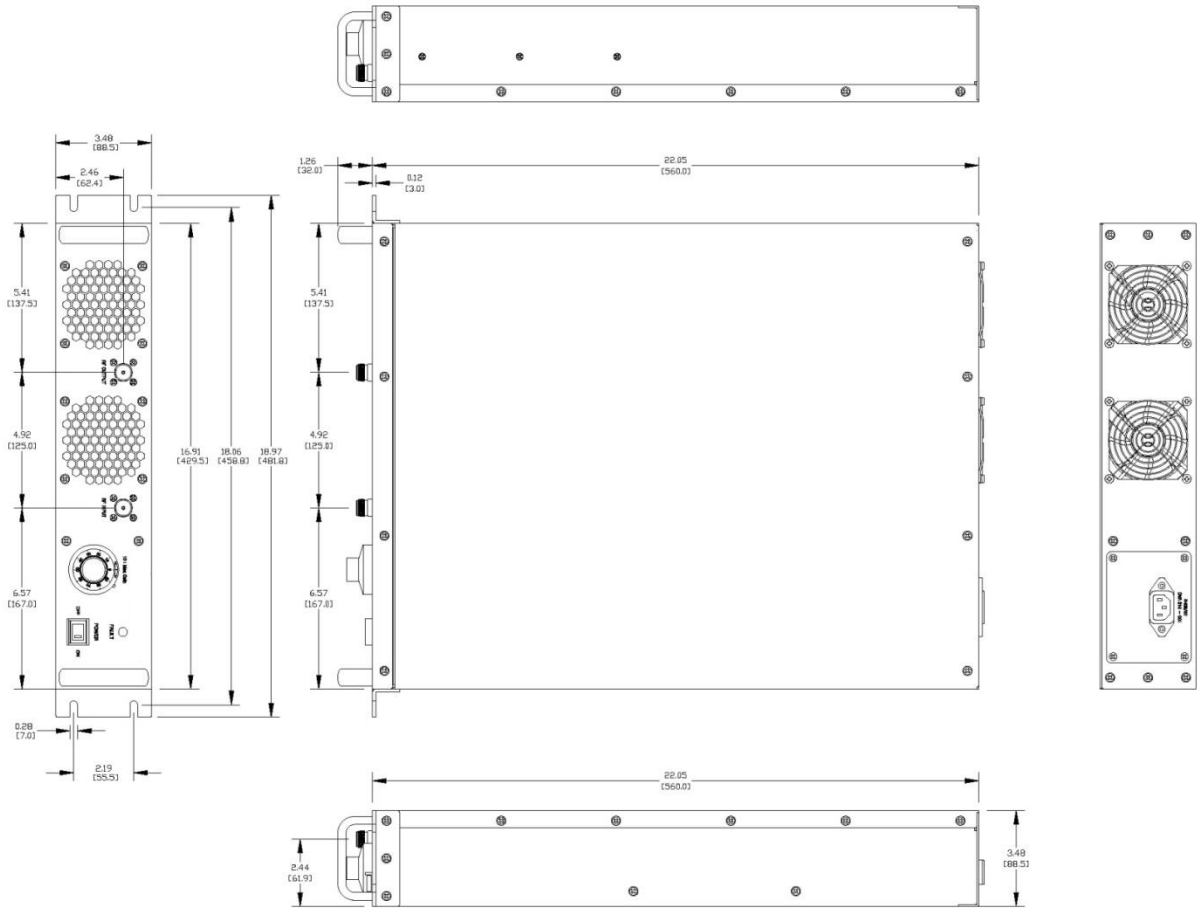
Parameter	Specification	Notes
Dimensions W x H x D	430 x 88 x 562 mm	2U rack chassis
Weight	9 Kg.	
RF Connectors In/Out	2.9 mm (K) Female / WR-42 Waveguide	Front Panel Standard
AC Power / Interface Connector	MS Connector	

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Communications Corp.

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OUTLINE DRAWING



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