Communications Corp.

HD33379
SOLID STATE HIGH POWER AMPLIFIER

FEATURES

Class AB linear GaN design
Instantaneous whole S & C bands coverage
Designed for EMI/RFI, lab, and general communication applications
Suitable for all single channel modulation standards
Small and light weight rack mount system
Built-in protection circuits
High reliability and ruggedness



ELECTRICAL SPECIFICATIONS: 50Ω, 25°C

Parameter	Specification	Notes
Operating Frequency Range	1.0 - 10.0 GHz	
Power Output	10 Watt Min / 12 Watt Typ	CW
Power Output @ P1dB	6 Watt Typ	
Power Gain	40 dB Min	
Power Gain Flatness	4.0 dB p-p	
Input Return Loss	-10 dB Max	Relative to 50 Ohm
2-Tone Intermodulation (IMD)	-30 dBc Typ	30dBm/Tone, Δ = 1MHz
Harmonics	-20 dBc Typ	At rated output power
Non Harmonics Spurious	-60 dBc Max	
Operating Voltage	100 - 240 VAC	Single phase
Power Consumption	300 Watt Max	At Rated Pout
Input Power Protection	+5 dBm Max	<10 Sec without damage
Load VSWR Protection	5 : 1 Max	<1 minute at rated Pout

ENVIRONMENTAL CHARACTERISTICS

Parameter	Specification	Notes
Operating Ambient Temperature	0 to +50 °C	
Storage Temperature	-20 to +85 °C	
Relative Humidity	5 to 95 %	Non-condensing

MECHANICAL SPECIFICATIONS

Parameter	Specification	Notes
Dimensions W x H x D	430 x 88 x 562 mm	2U - Excluding connectors
Weight	10 kg.	
RF Connectors In/Out	Hi-Freq. Type-N Female	
AC Power / Interface Connector	IEC 60320-C14 / 9-Pin D-Sub	
Cooling	Built in Fan Cooling	Variable speed
OPTIONAL: Digital Control: FWD, REV, VSWR, GAIN, ALC, V & I, TEMP	Ethernet RJ-45 TCP/IP, RS422/485, USB Optional GPIB Interface	Notes: 1, 2

Notes:

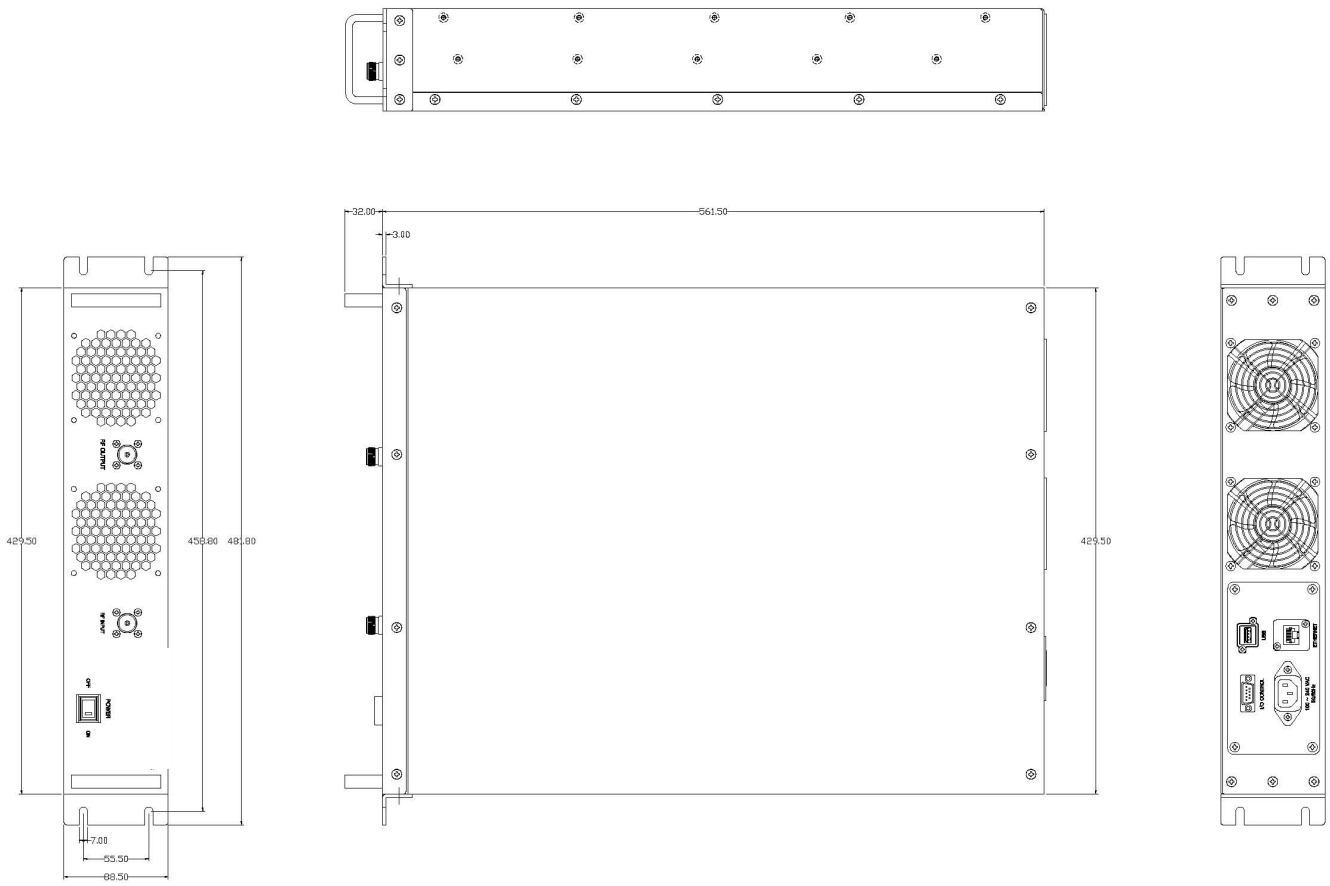
1.Controller option will reduce output power by 1.0dB nominal based on added coupler for power monitoring
2. Note: If Option DMC is required and 10W Min is required another option is the HD32078 series of 20W models

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OUTLINE DRAWING



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