



6-18GHz, 40W, 46dB Power Amplifier MtronPTI P/N: PA2033

FEATURES

Rack mounted system
 High Power Class AB linear GaN design
 Instantaneous ultra wide bandwidth
 Suitable for all modulations standards
 Built-in protection circuits
 High reliability and ruggedness



ELECTRICAL SPECIFICATIONS

Parameter	Specification	Notes
Operating Frequency Range	6.0 - 18.0 GHz	
Power Output @ Psat	40 Watt Min	CW
Power Output @ P1dB GCP	20 Watt Typ	CW
Power Gain	46 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
2-Tone Intermodulation (IMD)	-30 dBc Typ	37dBm/Tone, $\Delta = 1\text{MHz}$
Harmonics	>10 dBc Typ	At rated output
Non Harmonic Spurious	-60 dBc Min	
Operating Voltage	100 - 240 VAC Nom	50/60 Hz
Power Consumption	800 Watt Max	At rated output
Load VSWR Protection	5 : 1	Self-initiated shutdown
High Temperature Protection	Automatic Shutdown	

ENVIRONMENTAL CHARACTERISTICS

Parameter	Specification	Notes
Operating Ambient Temperature	0 to +50 °C	
Storage Temperature	-20 to +85 °C	
Relative Humidity	5 to 95 %	Non Condensation
Shock	MIL-STD-901D with 30G	
Vibration	MIL-STD-167-1A	

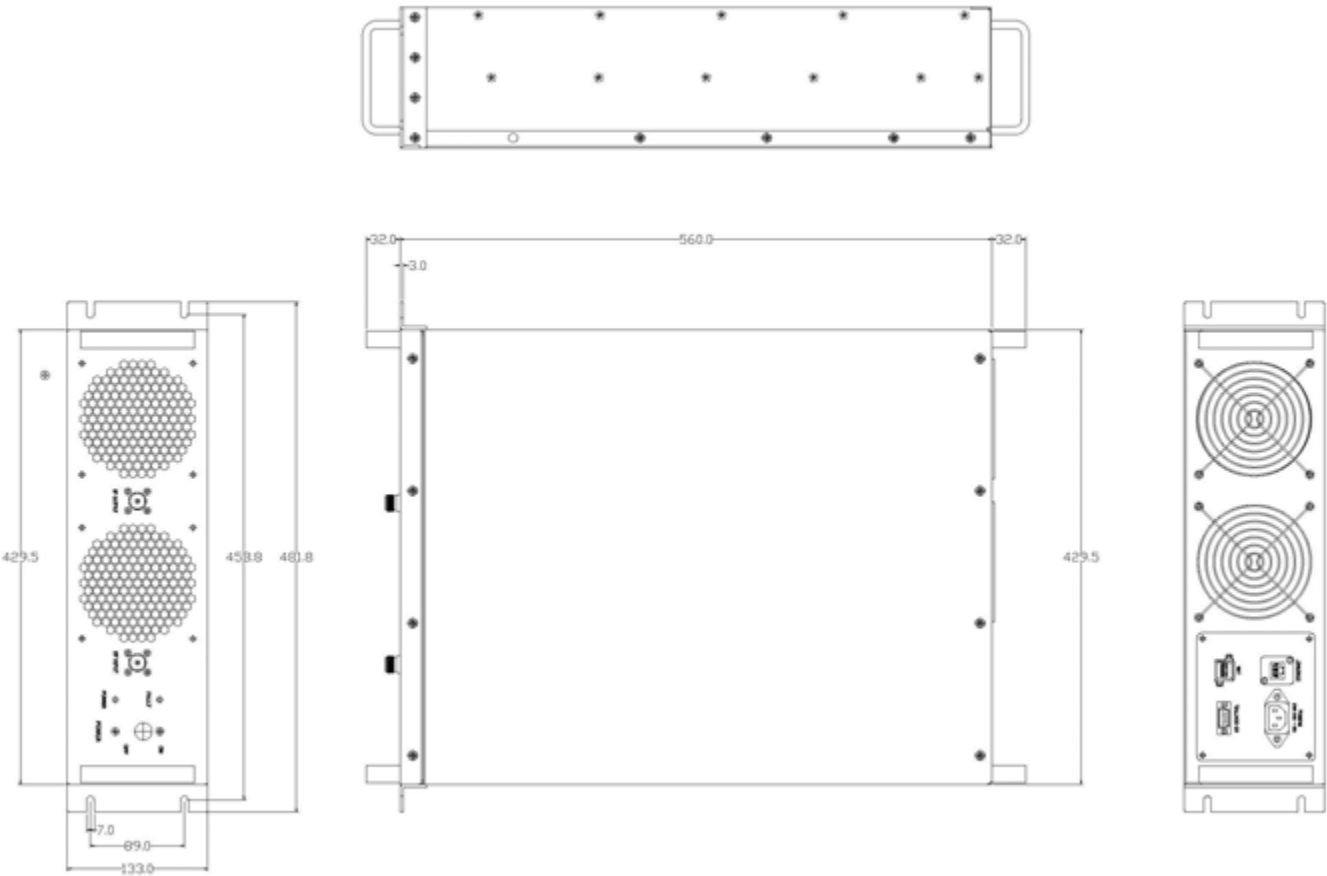
MECHANICAL SPECIFICATIONS

Parameter	Specification	Notes
Dimensions W x H x D	430 x 133 x 560 mm	3U - Excluding connectors
Weight	20 Kg. Max	
RF Connectors In/Out/Reference	Precision Hi Frequency Type-N Female	
AC Power / Control Connector	IEC 60320-C14 / 9-Pin D-Sub	
Cooling	Built in Fan Cooling	Variable speed
OPTIONAL: Digital Monitor & Control FWD, REV, VSWR, GAIN, ALC, V & I, TEMP	Ethernet RJ-45 TCP/IP, RS422/485, GPIB Interface	Remote Bluetooth application



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OUTLINE DRAWING



Data Sheet Revision Table:

Date	Rev.	Author.	Details of Revision
01-29-16	0	MM	Initial Draft.