



1-100MHz, 50W, 47dB Power Amplifier
MtronPTI P/N: PA2051



FEATURES

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

ELECTRICAL SPECIFICATIONS

Parameter	Specification	Notes
Operating Frequency Range	1 - 100 MHz	
Power Output @ P1dB	50 Watt	CW
Power Gain	47 dB Min	
Power Gain Flatness	4.0 dB p-p Max	Constant input power
Input Return Loss	10 dB Min	Relative to 50 Ohm
2-Tone Intermodulation (IMD)	>30 dBc Typ	37dBm/Tone, $\Delta = 1\text{MHz}$
Harmonics	>20 dBc Typ	At rated output power
Non Harmonics Spurious	60 dBc Min	
Operating Voltage	100 - 240 VAC	
Power Consumption	400Watt	At rated Pout
Max Input Power	+8 dBm	Without damage
Load VSWR Protection	$\infty : 1$	

ENVIRONMENTAL CHARACTERISTICS

Parameter	Specification	Notes
Operating Ambient Temperature	0 to +50 °C	
Storage Temperature	-40 to +85 °C	
Relative Humidity	5 to 95 %	Non Condensing

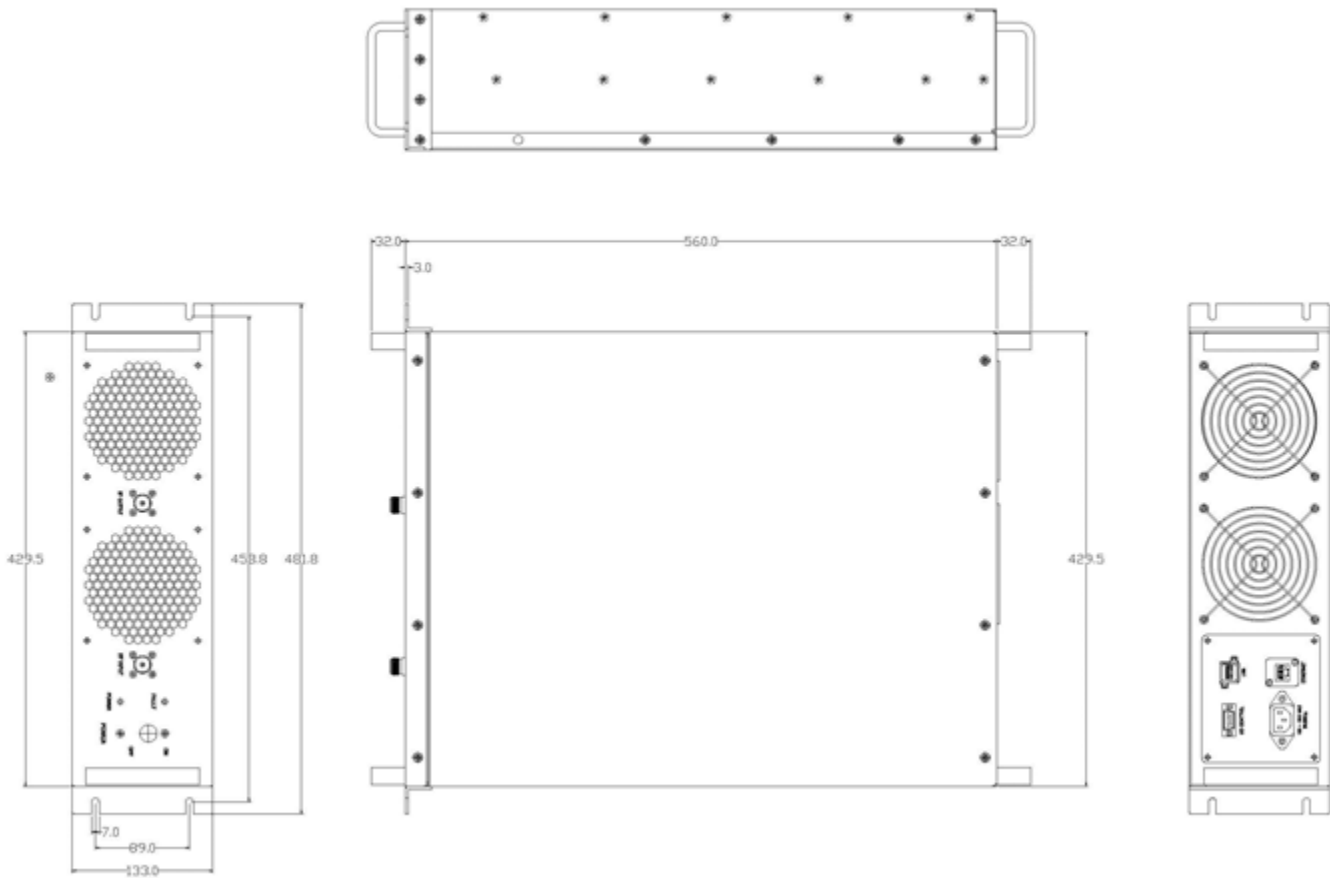
MECHANICAL SPECIFICATIONS

Parameter	Specification	Notes
Dimensions W x H x D	430 x 133 x 560 mm	3U
Weight	18 kg.	
RF Connectors In / Out	Type-N Female	
AC Power / Interface 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
02-05-16	0	MM	Initial Draft.