

FEATURES

Class AB linear GaAsFET design
Instantaneous wide bandwidth
Designed for EMI/RFI, lab, and general communication applications
Suitable for all single channel modulation standards
Rack mounted system
Local LCD & remote flexible interfaces
High reliability and ruggedness

ELECTRICAL SPECIFICATIONS

Parameter	Specification	Notes
Operating Frequency Range	18.0 - 26.5 GHz	
Power Output CW	10 Watt Min	
Power Gain	40 dB Min	
Power Gain Flatness	4.0 dB p-p Max	Constant input power
Input Return Loss	-10 dB Max	Relative to 50 Ohm
2-Tone Intermodulation (IMD)	-30 dBc Typ	30dBm/Tone, $\Delta = 1\text{MHz}$
Harmonics	-20 dBc Max	At rated Pout
Spurious	-60 dBc Max	Non-harmonics
Operating Voltage	100 - 240 VAC	
Power Consumption	200 Watt Max	
Input Power Protection	+3 dBm Max	<10 Sec without damage
Load VSWR Protection	5 : 1 Max	Auto shutdown >5:1 load VSWR
Sample Port Coupling	-30 to -40 dB	Optional – K-F (2.9mm)

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
Shock & Vibration	MIL-STD-810E	Designed to meet

MECHANICAL SPECIFICATIONS

Parameter	Specification	Notes
Dimensions W x H x D	430 x 133 x 560 mm	3U - Excluding handles
Weight	20 Kg. Nom	
RF Connectors In / Out / Sample Port	2.9 mm (K / air type) Female	Rear or Front panel
AC Power / Interface Connector	IEC 60320-C14 / 9-Pin D-Sub	Or equivalent
Cooling	Built in forced air	
EMI SERIES: Digital Monitor & Control	Ethernet RJ-45 TCP/IP, RS422/485	Remote Bluetooth application
FWD, REV, VSWR, GAIN, ALC, V & I, TEMP	Optional GPIB Interface	

Applications

Test and Measurement
Electronic Warfare
Radar
Broadband Jamming
Public Safety

Quality & Certifications

AS9100 Rev C
ISO9001:2008

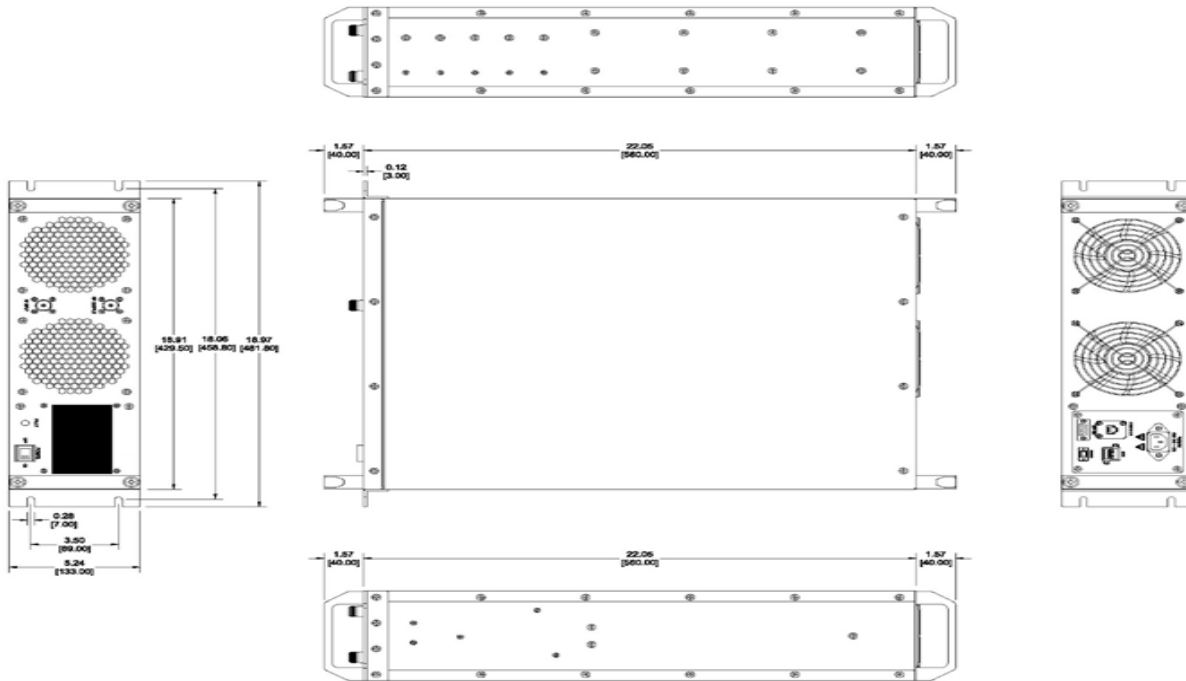


Connect with MtronPTI

mtronpti.com

Orlando

2525 Shader Rd
Orlando, FL 32804 USA
Phone: 407-298-2000
Fax: 407-293-2979



Experienced

MtronPTI continues nearly fifty years of service to aerospace, defense communication and control, Internet and mobile infrastructure, lab and field instrumentation EMs.

Vertically integrated

MtronPTI provides High reliability, High Power Solid State Power Amplifier solutions for demanding applications. Our design and manufacturing capabilities cover 50KHz to 47GHz frequency range with power levels of 1W to 4kW for CW & Pulse application modules and over 10kW for such systems. Synergy between our engineering manufacturing— from concept, simulation, electrical & mechanical layouts to assembly & testing capabilities allow for quick engineering & manufacturing responses to customer requests.

One-on-one technical relationships

Each project is unique in design, environmental, schedule and cost requirements. MtronPTI engineers work with your designers to select the best approach. Six sigma and AS9100 Rev C quality systems ensure reliable solutions.

Long term support

MtronPTI uses Rapid Process Feedback, Lean Manufacturing and Demand Flow Technology for right product, right time, on specification. MtronPTI also manages the supply chain: aligning forecasts, qualifying purchased component suppliers and working with distributors, hubs and portals to make sure every time the production line reaches for an MtronPTI part, it'll be there.

