

FEATURES

- Class A/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	40 Watt Min	35 Watt typ.
P1dB Power	20 Watt Min	35 Watts typ.
Power Gain	46 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	800 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 – SMA-F

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

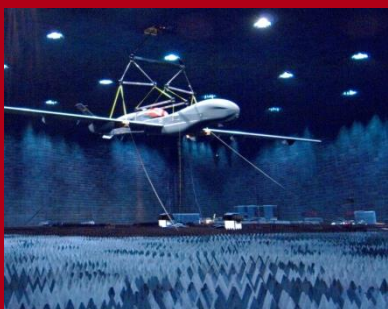
Parameter	Specification	Notes
Dimensions W x H x D	430 x 311 x 600 mm	7U - Excluding handles
Weight	40 Kg. Nom	
RF Connectors In / Out / Sample Port	2.9 mm (K / air type) Female	Rear or Front panel
AC Power / Interface Connector	IEC 60320-C14 / 9-Pin D-Sub	Or equivalent
Cooling	Liquid Cooled	Built in pump
EMI SERIES: Digital Monitor & Control	Ethernet RJ-45 TCP/IP, RS422/485	
FWD, REV, VSWR, GAIN, ALC, V & I, TEMP	Optional GPIB Interface	

Applications

- Test and Measurement
- Electronic Warfare
- Radar
- Broadband Jamming
- Public Safety

Quality & Certifications

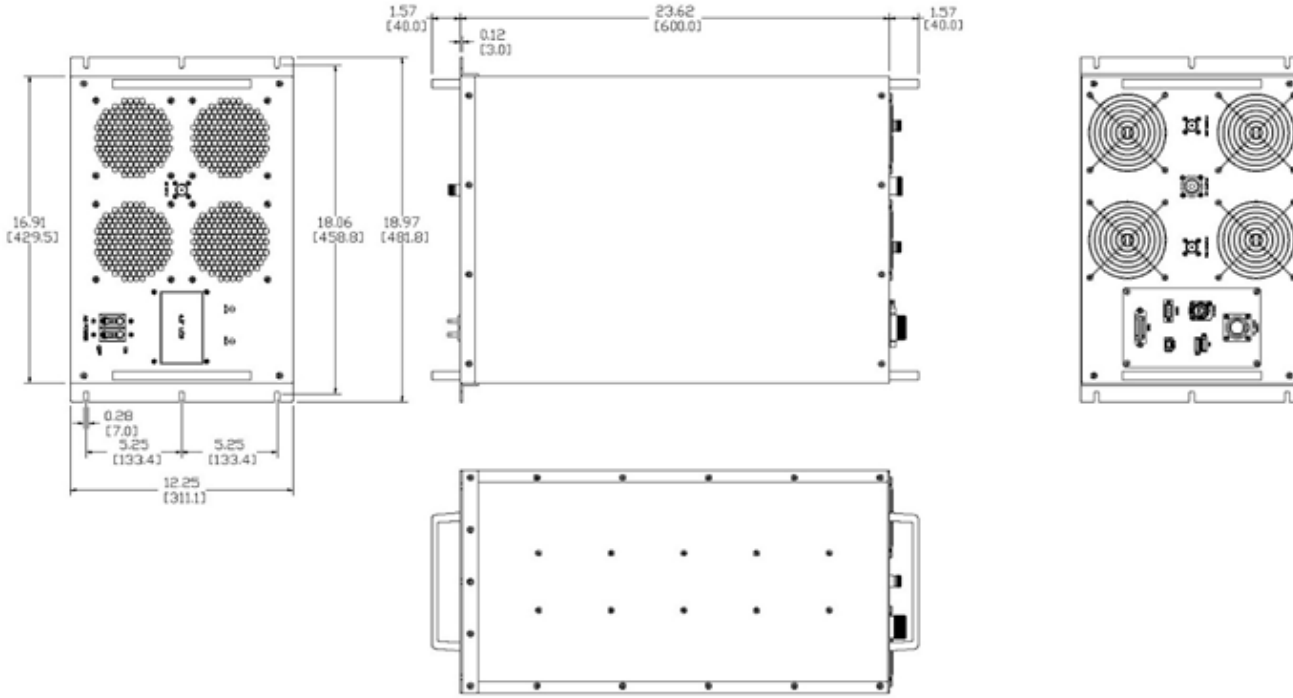
- AS9100 Rev C
- ISO9001:2008





Connect with MtronPTI

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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.

