

### FEATURES

Small and light weight bench-top chassis  
 Class AB linear GaAsFET hybrid design  
 Instantaneous wide bandwidth  
 Suitable for all single channel modulation standards  
 Built-in protection circuits  
 High reliability and ruggedness



### ELECTRICAL SPECIFICATIONS

Parameter	Specification	Notes
Operating Frequency Range	26.5 - 40.0 GHz	
Power Output CW	40 Watt Min	50W Typ
P1dB Power	20 Watt Min	35W 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	36dBm/Tone, Δ = 1MHz
Harmonics	-20 dBc Max	At rated Pout
Spurious	-60 dBc Max	Non-harmonics
Operating Voltage	100 - 240 VAC	
Power Consumption	1500 Watt Typ	
Input Power Protection	+3 dBm Max	<10 Sec without damage Auto Shutdown @ 5:1 load
Load VSWR Protection	5 : 1 Max	VSWR
Sample Port Coupling	-40 dB	K-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 266 x 600 mm	6U - Excluding handles
Weight	35 Kg. Nom	
RF Connectors In / Out / Sample Port	2.9 mm-F / WR28 / 2.9mm-F	Front or Rear panel
AC Power / Interface Connector	IEC 60320-C14 / 9-Pin D-Sub	Or equivalent
Cooling: Built in Quiet-Cool	60dBa Typ	Close circuit Air-liquid cooling
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

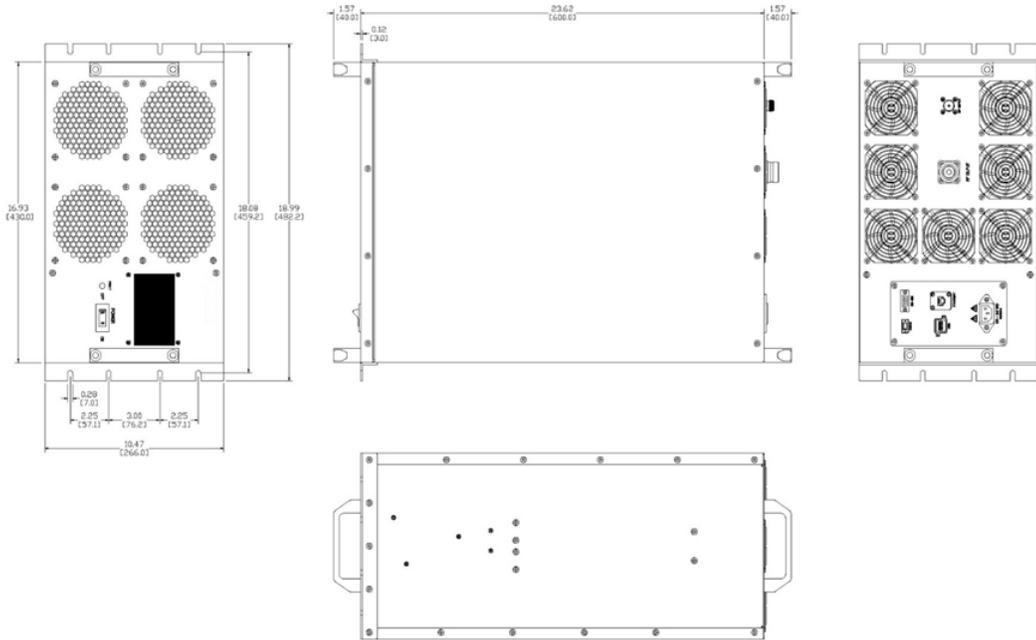
AS9100 Rev C  
 ISO9001:2008





# Connect with MtronPTI

[mtronpti.com](http://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.

