

## FEATURES

Rack mounted system  
 Class AB linear LDMOS design  
 Instantaneous bandwidth  
 Suitable for all single channel modulation standards  
 Built-in protection circuits  
 High reliability and ruggedness

## ELECTRICAL SPECIFICATIONS: 50ohm 25C

Parameter	Specification	Notes
Operating Frequency Range	380 - 470 MHz	
Power Output @ P1dB GCP	5 Watt Min	CW
Power Gain	43 dB Min	
Power Gain Flatness	1.0 dB p-p Max	
Input Return Loss	10 dB Min	Relative to 50 Ohm
2-Tone Intermodulation (IMD) / IP3	-30 dBc / +52 dBm Typ	37dBm/Tone, Δ = 1MHz
Harmonics	-30 dBc Typ	At rated output
Noise Figure	<10 dB	
Spurious	60 dBc Max	Non-harmonics
Operating Voltage	100 - 240 VAC	
Power Consumption	100 Watt Max	At rated Pout
Max Input Power	+10 dBm	<10 Sec without damage
Load VSWR Protection	∞ : 1	<1 minute at rated Pout

## ENVIRONMENTAL CHARACTERISTICS

Parameter	Specification	Notes
Operating Case 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 88 x 562 mm	2U
Weight	9 kg.	
RF Connectors In / Out	Type-N Female	Front Panel Standard
AC Power / Interface Connector	IEC 60320-C14 / 9-Pin D-Sub	
Cooling	Built in Fan Cooling	Variable speed
<b>OPTIONAL:</b> Digital Monitor & Control FWD, REV, VSWR, GAIN, ALC, V & I, TEMP	Ethernet RJ-45 TCP/IP, RS422/485 Optional GPIB Interface	Remote Bluetooth application

## Applications

Test and Measurement  
 Electronic Warfare  
 Radar  
 Broadband Jamming  
 Public Safety

## Quality & Certifications

AS9100 Rev C  
 ISO9001:2008  
 Mil-STD-790 Certificate  
 RoHS compliance  
 Conflict Minerals Compliant



MtronPTI SSPA Products: <http://www.mtronpti.com>

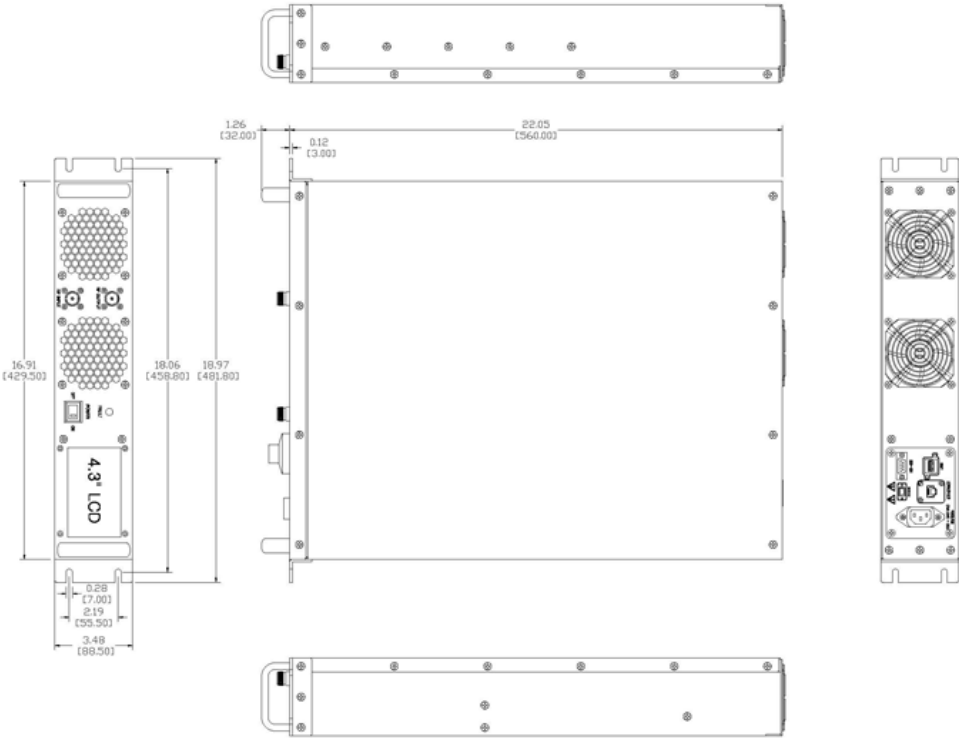


# Connect with MtronPTI

[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.

