

### FEATURES

Class AB linear LDMOS design  
 Instantaneous wide bandwidth  
 Suitable for all single channel modulations standards  
 Built-in monitoring and protection circuits  
 High reliability and ruggedness

### ELECTRICAL SPECIFICATIONS

Parameter	Specification	Notes
Operating Frequency Range	1000 - 2000 MHz	
Power Output Psat	5 Watt Min	CW
Power Gain	37 dB Min	
Power Gain Flatness	3.0 dB p-p Max	
Input Return Loss	-10 dB	Relative to 50 Ohm
2-Tone Intermodulation (IMD)	>30 dBc	26dBm/Tone, Δ = 1MHz
Harmonics 2 <sup>nd</sup> / 3rd	>20 dBc Max	At rated Pout
Non Harmonics Spurious	>60 dBc	
Operating Voltage	26 - 30 VDC	
Current Consumption	0.8 Amp Max	At rated Pout
Max Input Power	+8 dBm Max	Without damage
Load VSWR Protection	∞ : 1	

### ENVIRONMENTAL CHARACTERISTICS

Parameter	Specification	Notes
Operating Case Temperature	-20 to +75 °C	
Storage Temperature	-40 to +85 °C	
Relative Humidity	5 to 95 %	Non Condensing

### MECHANICAL SPECIFICATIONS

Parameter	Specification	Notes
Dimensions	80 x 50 x 17 mm	Excluding Connectors
Weight	150 gr.	Typical Weight
RF Connectors In/Out	SMA female	
DC Power / Interface Connector	Feed Thru	
Cooling	External Heatsink required	Forced air required

OPTION	Function	Description
101	FWD	Forward power detect
103	VVA	Variable Voltage Attenuator

Contact factory if options are required

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

### Applications

Test and Measurement  
 Electronic Warfare  
 Radar  
 Broadband Jamming  
 Public Safety

### Quality & Certifications

AS9100 Rev C  
 ISO9001:2008

### Global Service Centers

Orlando, USA  
 Noida, India





## Connect with MtronPTI

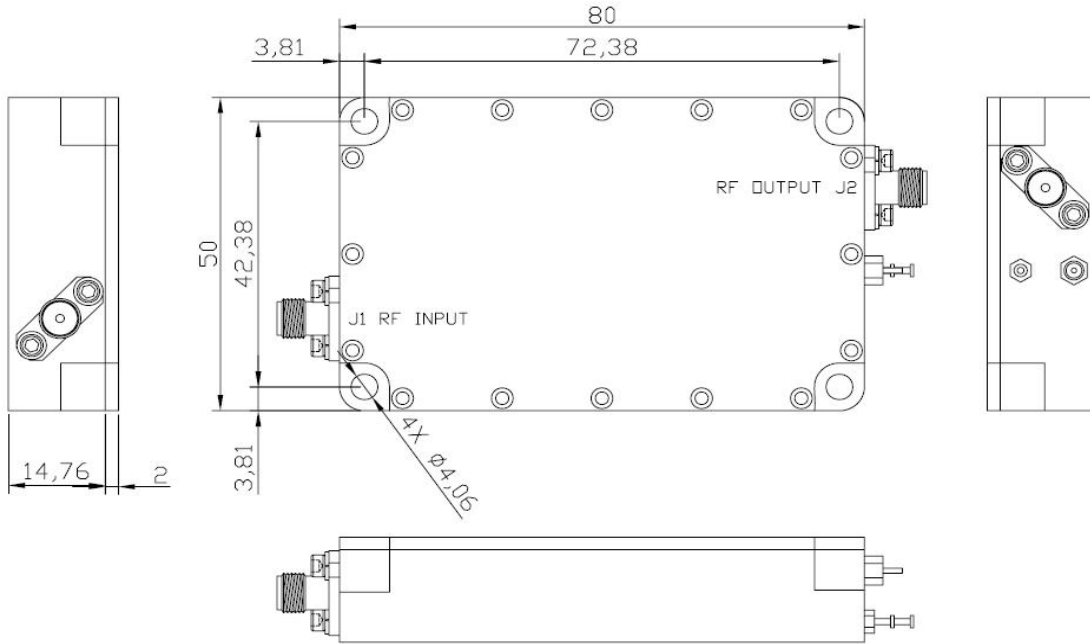
[mtronpti.com](http://mtronpti.com)

### Orlando

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

### Noida

SDF-D3 NSEZ,  
Noida - 201305 (U.P.), India



#### 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.

