

FEATURES

Class AB GaN design
 Instantaneous ultra-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 | 0.7 - 18.0 GHz | |
| Power Output Past | 5 Watt Min | |
| Power Gain | 37 dB Min | |
| Power Gain Flatness | 5 dB p-p Max | |
| Input Return Loss | 10 dB Min | |
| Harmonics 2 nd / 3 rd | -20 dBc Typ | -10~-15dBc Typ up to 4GHz |
| Non Harmonics Spurious | -60 dBc Max | |
| Operating Voltage | 32 VDC Nom | |
| Current Consumption | 5.0 Amp Max | At rated Pout |
| Input Power Protection | 0 dBm Max | <10 Sec without damage |
| Load VSWR Protection | 3 : 1 | <1 minute at rated Pout |

ENVIRONMENTAL CHARACTERISTICS

| Parameter | Specification | Notes |
|----------------------------|---------------|------------------|
| Operating Case Temperature | -20 to +65 °C | |
| Storage Temperature | -40 to +85 °C | |
| Relative Humidity | 5 to 95 % | Non-condensation |

MECHANICAL SPECIFICATIONS

| Parameter | Specification | Notes |
|--------------------------------|-------------------|----------------------|
| Dimensions | 160 x 140 x 27 mm | Excluding connectors |
| Weight | 1.4 Kg. | |
| RF Connectors In/Out | SMA female | Cover Flange |
| DC Power / Interface Connector | 9-Pin D-Sub | |
| Cooling | External Heatsink | Forced air required |

D-SUB CONNECTOR PIN ASSIGNMENT

| Pin | Function | Description |
|-----|----------------|-------------------------------------|
| 1 | | N/A |
| 2 | | N/A |
| 3 | Current Sensor | I _D @50mV/100mA Typ |
| 4 | Temp Sensor | V _T @10mV/°C + 500mV Typ |
| 5 | Shutdown | TTL |
| 6,7 | VDD | 32VDC |
| 8,9 | GND | Ground |

Applications

Test and Measurement
 Electronic Warfare
 Radar
 Broadband Jamming
 Public Safety

Quality & Certifications

AS9100 Rev C
 ISO9001:2008
 RoHS compliance
 Conflict Minerals Compliant

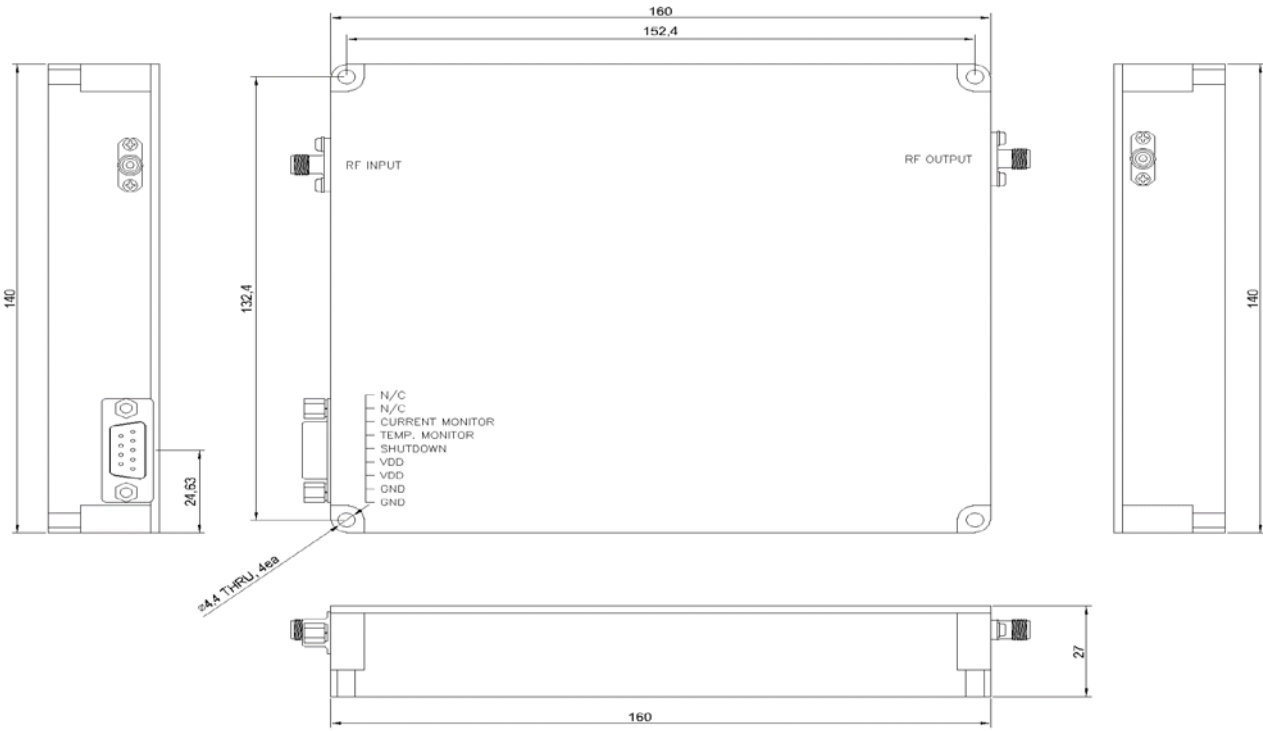


MtronPTI SSHPA Products: <http://www.mtronpti.com>



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.

