



PA3240 32-40GHz, 10W SOLID STATE HIGH POWER AMPLIFIER MODULE

FEATURES

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

ELECTRICAL SPECIFICATIONS

Parameter	Specification	Notes
Operating Frequency Range	32.0 - 40.0 GHz	
Power Output Psat	10 Watt Min	
Power Gain	40 dB Min	
Power Gain Flatness	4.0 dB p-p Max	Constant input power
Input / Output Return Loss	10 dB Min	Relative to 50 Ohm
Harmonics	-20 dBc Typ	At rated Pout
Spurious	-60 dBc Max	Non-harmonics
Operating Voltage	9 +/-0.1VDC Nom	
Current Consumption	37 Amp Max	At rated Pout
Max Input Power	0 dBm Max	Without damage
Load VSWR Protection	3 : 1	

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	140 X 175 X 22 mm	Excluding Connectors
Weight	1.1Kg	
RF Connectors In/Out	2.92mm(K) / 2.92mm(K)	
DC Power / Interface Connector	9-Pin D-Sub	
Cooling	External Heatsink	Forced air required

D-SUB CONNECTOR PIN ASSIGNMENT

Pin	Function	Description
1	N/C	Reserved
2	N/C	Reserved
3	CURRENT SENSOR	I _D @20mV/100mA Typ
4	TEMP SENSOR	V _T @10mV/°C + 500mV Typ
5	SHUTDOWN	TTL
A1, A2	VDD	9VDC
A3,A4	GND	Ground

Applications

Test and Measurement
Electronic Warfare
Radar
Broadband Jamming
Public Safety

Quality & Certifications

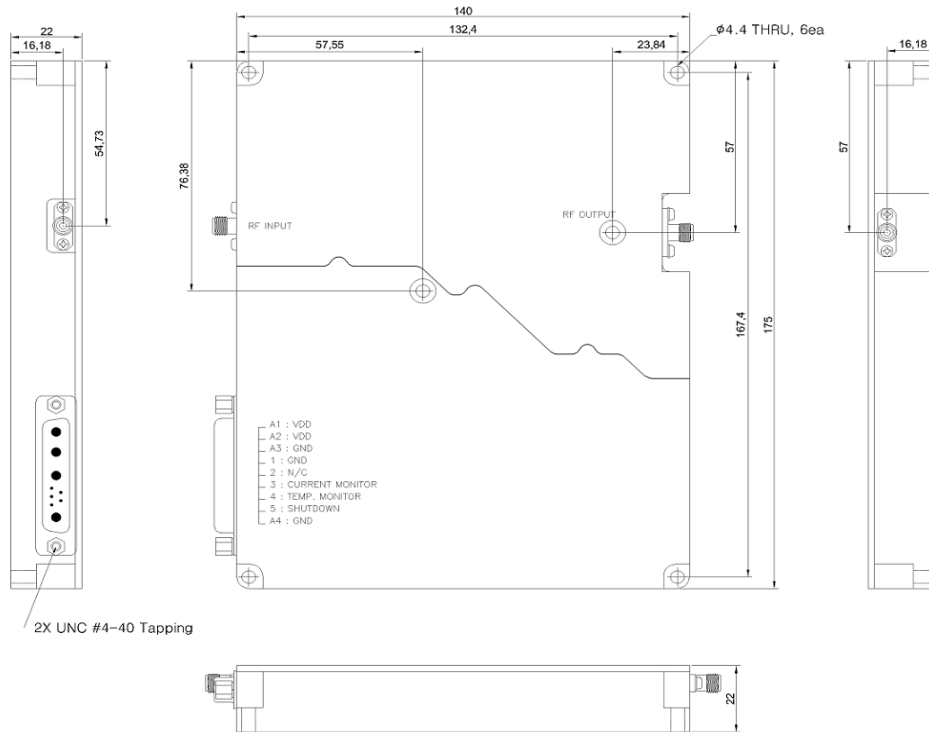
AS9100 Rev C
ISO9001:2008
RoHS compliance
Conflict Minerals Compliant



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



Connect with MtronPTI
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.

