

AA-12G-4KWP

1.0 - 2.0 GHz, 4000 W, 66 dB Min. Solid State High Power Pulse Amplifier

FEATURES

- Small form factor rack-mounted system
- Class AB linear GaN design
- Instantaneous L-Band octave bandwidth
- Suitable for linear high peak pulse applications
- Built-in protection circuits
- Versatile interface options
- High reliability and ruggedness


ELECTRICAL SPECIFICATIONS

| Parameter | Specification | Notes |
|-----------------------------|---|-------------------------|
| Operating Frequency Range | 1.0 - 2.0 GHz | |
| Power Output @ Peak Pulse | 4.0 KW Min | Peak Pulse |
| Input Pulse Characteristics | Width | Drop |
| | up to - 100 μ S | |
| | Duty | |
| | 6 % Max | <1 dB |
| | 1 - 10 KHz | |
| Power Gain | 66 dB Min | |
| Power Gain Flatness | 2.0 dB p-p Max | Constant input power |
| Input Return Loss | -10 dB Max | Relative to 50 Ω |
| Noise Figure | 6 dB Max | At Max gain |
| Output Power On/Off Ratio | -80 dB Max | TTL Gate Control |
| Harmonics | <-20 dBc Typ | At rated output power |
| Spurious | -60 dBc Max | Non-harmonics |
| Operating Voltage | 100 - 240 VAC | 50 - 60Hz |
| Power Consumption | 1.5 KW Max | At rated Pout |
| Input Power Protection | +8 dBm Max | <10Sec without damage |
| Load VSWR | Full spec @ 1.5 : 1 & Operational @ 2 : 1 | |

ENVIRONMENTAL CHARACTERISTICS

| Parameter | Specification | Notes |
|-------------------------------|-------------------------|----------------|
| Operating Ambient Temperature | 0 to +50 $^{\circ}$ C | |
| Storage Temperature | -40 to +85 $^{\circ}$ C | |
| Relative Humidity | 5 to 95 % | Non-condensing |

MECHANICAL SPECIFICATIONS

| Parameter | Specification | Notes |
|--|--|--|
| Dimensions W x H x D | 10U | Rack mount chassis |
| Weight | 40 Kg. | |
| RF Connectors In / Out / Sample | RF Input Type-N Female RF Output SC Female RF Sample Type-N Female | Front Panel Rear Panel Front Panel |
| Gate Control | BNC Female | Front Panel |
| AC Power / Interface Connector | MS / D-Sub | |
| Cooling | Built in Fan Cooling | Variable speed |
| Standard Digital Monitor & Control: FWD, REV, VSWR, GAIN, ALC, V & I, TEMP | Ethernet RJ-45 TCP/IP, RS422/485, USB GPIB Interface | |

OUTLINE DRAWING - 10U

