



PSSA-100M500M-1000

1000W CW SS Amplifier

Solid State Power RF Amplifier

The PSSA-100M500M-1000 is a Solid State 1000 (CW) RF Amplifier which covers frequency range from 100MHz to 500MHz. This amplifier can achieve high efficiency operation with proven reliability as is designed with the robust engineering and employment of the most advanced devices and components. The amplifier comes with 1 year warranty.

| Parameter | Specification |
|------------------------------|------------------------------------------------------------------------------------|
| Electrical | |
| Frequency Range | 100-500MHz |
| Output Power | 1000W CW, 800W @ P1dB |
| Internal Protection | Up to 0dBm with no damage |
| Gain @ rated power | 60dB min. |
| Gain Adjustment | 0 to 20dB |
| Input /Output Impedance | 50 ohms(VSWR 2.0:1) |
| RF Input / Output Connectors | RF Input, Type N Female RF Output, 7/16 female |
| Modulation | AM / FM / Pulse |
| Spurious | -50dBc |
| Harmonics | 2 nd , -18dBc Typical @ P1dB 3 rd , -12dBc Typical @ P1dB |
| Prime Power | 120V/208VAC +/-10%, 50/60 Hz, Three Phase, 5 wires, 'Y' configuration |
| Power Consumption | 5.9KVA |
| Mechanical | |
| Configuration | Rack 22"W x 36.13"D x 23U panel space |
| Cooling System | Air cooled ,self contained |
| Shock | MIL-STD-810C, method 516.2 |
| Vibration | MIL-STD-810C, method 514.2 |
| Temperature | 0° to 45°C |
| Non-operating temp | 0° to 60°C |
| Humidity | 95% without condensation |
| Altitude | 10, 000 feet |

THESE SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE.



Features [Build-in]

- VSWR Protection with Power Fold back when VSWR is greater then 3:1.
- RS 232 & Ethernet Remote Control.
- Gain Control.
- Leveling Control [ALC].
- Internal Pre-Amp.
- RF Input / Output Connectors on the Front Panel.
- Standby/RF_ON, Elapsed Time Metering in hours.
- Color TFT Touch screen Display with Front Panel Controls and Indicators.

OPTIONS

- | | |
|-----|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 001 | VSWR Protection against any output mismatch greater then 6:1; will operate without damage or oscillation against any magnitude and phase of source and load impedance. |
| 002 | Alternate Prime Power (specify at time of order). |
| 003 | Pin-Diode Pulse Modulation. |
| 004 | Forward RF Sample Port Type N Female -50dBc nominal on the Front or Rear Panel. |
| 005 | Reflected RF Sample Port Type N Female -50dBc nominal on the Front or Rear Panel. |
| 006 | RF Input / Output Connectors on the Front /Rear Panel (Specify front or rear at time of order). |
| 007 | Gain Equalizer. |
| 008 | Input Power Limiter. |
| 009 | RF Safety Interlock, type BNC Connector. |
| 010 | Slides for Rack mount. |

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