



PSSA-50M100M-2000

2000W CW Solid State Amplifier

Solid State (SS) Power RF Amplifier

The PSSA-50M100M-2000 is a Solid State 2000W (CW) Ruggedized RF Amplifier which covers frequency range from 50MHz to 100MHz. 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 2 years.

Parameter	Specification
Electrical	
Frequency Range	50-100MHz
Output Power	2000W CW min.
Internal Protection	Up to +10dBm for no damage
Gain @ rated power	68dB
Gain Adjustment	0 to 30dB
Output Impedance	50 ohms(VSWR 2.0:1)
Output Impedance	50 ohms(VSWR 2.5:1)
RF Input / Output Connectors	RF Input Type N Female / RF Output 1-5/8" EIA
Modulation	AM / FM / Pulse
Spurious	-50dBc
Harmonics	2 nd harmonic:-20dBc typical at lower end of band 3 rd harmonic:-15dBc typical at upper end of band
Prime Power	220V AC +/-10%, 50/60 Hz, Three Phase 4 wires ,Delta configuration
Mechanical	
Configuration	19" Racks, Ruggedized w/shock mounts Size: 61.5"Wx36"Dx34"H
Cooling System	Air cooled ,self contained
Shock MIL Standards	MIL-STD-810C, method 516.2, Procedure I ,15G. 11 ms 1/2 sine
Vibration MIL Standards	MIL-STD-810C, method 514.2, procedure VIII, curves V, 1 hr/axis
MIL-STD Test Certificate	Included with shipment in the operation/maintenance manual

THESE SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE.



Environmental

Temperature	0° to 45° C
Non-operating Temp	0° to 60°C
Humidity	95% without condensation
Altitude	15,000 feet

Protection

VSWR Reflected Power Protection
Open Circuit and Short Circuit Protection
RF Output Level Protection
Thermal Fault Protection

Features

Front Panel Controls and Indicators
Standby / Operate (RF Off/RF On)
Fault Reset
Self-diagnostic Circuitry
Total / Operate Elapsed Time Metering

OPTIONS

001	VSWR Protection against any output mismatch; 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	Ethernet Remote Control.
004	Forward RF Sample Port Type N Female -60dBc nominal on the Front or Rear Panel.
005	Reflected RF Sample Port Type N Female -60dBc nominal on the Front or Rear Panel.
006	RF Input / Output Connectors on the Front Panel (Specify front or rear at time of order).
007	Internal Systems Diagnostics.
008	Filament/Beam Elapsed Time Metering in hours.
009	RF Safety Interlock, type BNC Connector.
010	Forward/Reflected Power Indication simultaneously on Front Panel display.

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