

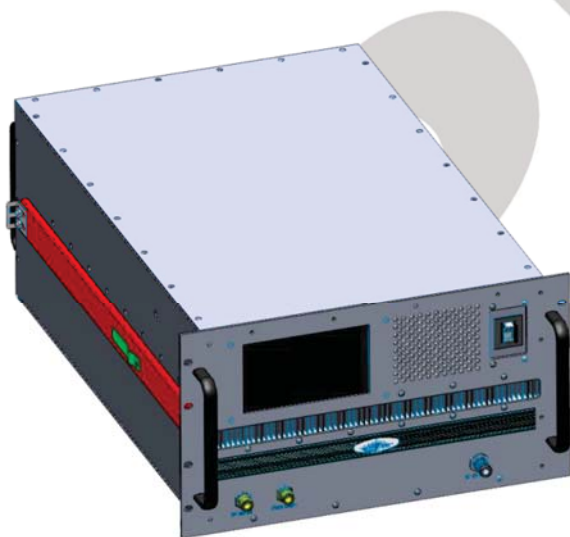


# PSSA-1G3.1G-100

## 100W CW SS Amplifier

### Solid State Power RF Amplifier

The PSSA-1G-3.1G-100 is a Solid State 100W (CW) RF Amplifier which covers frequency range from 1GHz to 3.1GHz. 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
<b><u>Electrical</u></b>	
Frequency Range	1.0-3.1GHz
Output Power	100W CW, typical
Internal Protection	Up to 0dBm with no damage
Gain @ rated power	50dB min.
Input /Output Impedance	50 ohms(VSWR 2.0:1)
RF Input / Output Connectors	Type N Female
Modulation	AM / FM / Pulse
Spurious	-50dBc
Harmonics	-15dBc, typical
Prime Power	115 or 220V AC +/-10%, 50/60 Hz, Single Phase,
Power Consumption	1.2KVA
<b><u>Mechanical</u></b>	
Configuration	Racks mounts 19"W x 26.13"D x 10.5"H
Cooling System	Air cooled ,self contained
Shock	MIL-STD-810C, method 516.2
Vibration	MIL-STD-810C, method 514.2
Temperature	0° to 40°C
Non-operating temp	0° to 60°C
Humidity	95% without condensation
Altitude	10, 000 feet

THESE SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE.



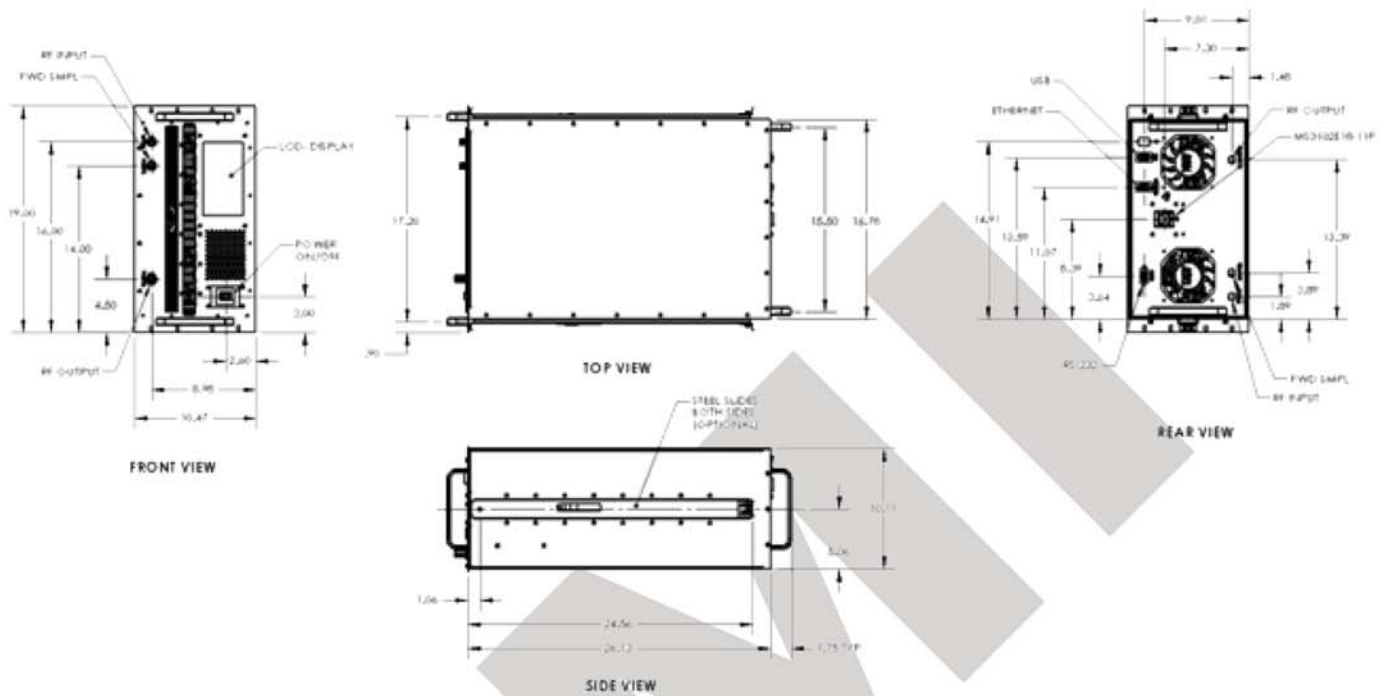
## **Features [Build-in]**

- 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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