

## Rack Mountable Solid State Amplifiers

### General Information

Locus Microwave, Inc. Rack Mountable Solid State Power Amplifiers are available in a variety of frequency and output power ranges. They are designed to provide a combination of superior performance, reliability and cost effectiveness. All units are carefully designed with consideration for the electrical, mechanical and thermal requirements. Specifications included are for standard products. Please contact the factory for your custom/specific performance needs.

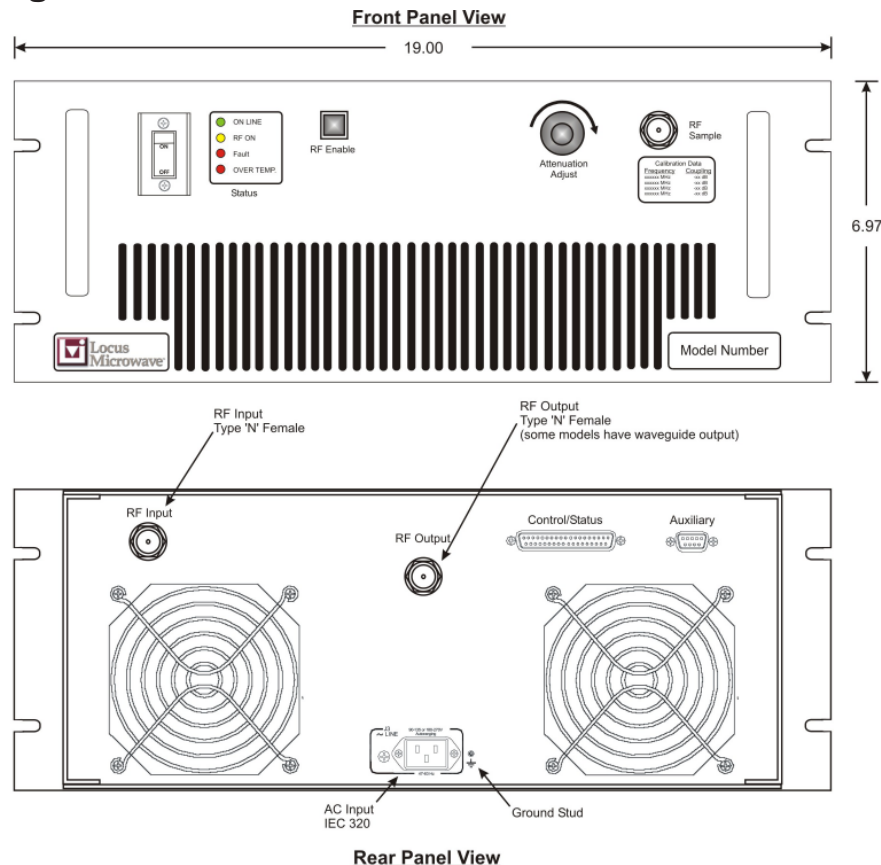
### Features:

- Frequency Ranges from 800 MHz to >14 GHz
- Simple & Cost Effective Packaging
- Standard 19" rack, 4RU high
- Front Panel RF Sample Port
- Integral Fault Alarm and Parallel I/O

### Options:

- Detected RF Output
- Gated RF
- Rack Slides

### Outline Drawing



## Common Specifications

Electrical		Mechanical and Environmental	
Gain Adjustment Range	15 dB min.	Size	Standard 19" Rack
Gain Flatness	+/-1.25 dB		4 RU High, 22" Deep
VSWR		Cooling	via forced air
Input	1.5:1	Connectors	
Output	1.5:1	RF Input	Type 'N' Female
RF Sample Port Coupling	-30 dBc (nom.)	RF Output	Type 'N' Female
AM/PM Conversion	0.5°/dB @ P <sub>1dB</sub> - 3 dB		(some models have WG output)
Harmonics	-30 dBc	Control/Status	15 Pin 'D' Type
Spurious	-60 dBc	Auxiliary	9 Pin 'D' Type
Controls		AC Power	IEC-320
AC On/Off	Front Panel Switch	Chassis Ground	Threaded Stud
RF Enable	Front Panel Switch	Operating Temperature	0 to +50°C
Gain Adjust	Front Panel Knob	Storage Temperature	-20 to +70°C
Indicators (Front Panel)		Humidity, Operating	0 to 95% w/o cond.
AC Power	Green LED	Humidity, Storage	0 to 100% w/o cond.
RF On	Yellow LED	Altitude, Operating	<10,000 feet
Fault	Red LED		
Over Temp.	Red LED		

## Representative Rack Mounted Amplifiers

Base Model Number	Frequency (MHz)	Gain (dB)	P <sub>1dB</sub> (dBm)	P <sub>sat</sub> (watts)	AC Power <sup>1</sup> (VAC)
SR21100-XXX	800-900	50/60/70	46-53	50-250	120/240
SR31100-XXX	1400-1500	50/60/70	46-53	50-250	120/240
SR31000-XXX	1625-1661	50/60/70	46-53	50-250	120/240
SR41300-XXX	1700-1900	50/60/70	46-53	50-250	120/240
SR41200-XXX	1900-2100	50/60/70	46-53	50-250	120/240
SR41000-XXX	2100-2200	50/60/70	46-53	50-250	120/240
SR51300-XXX	4400-5000	50/60/70	46-53	50-250	120/240
SR51200-XXX	5400-5900	50/60/70	46-53	50-250	120/240
SR51000-XXX	5850-6425	50/60/70	46-54	50-300	120/240
SR61000-XXX	7900-8400	50/60/70	46-53	50-250	120/240
SR61100-XXX	9500-10500	50/60/70	46-51	50-160	120/240
SR71200-XXX	10700-11700	50/60/70	46-50	50-125	120/240
SR71000-XXX	14000-14500	50/60/70	46-50	50-125	120/240

Notes:

1. Units over 100 watts are supplied operating with 240 VAC only.