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MODEL 5067FE

20 - 1000 MHz 500 WATTS LINEAR POWER RF AMPLIFIER

Solid State Broadband High Power RF Amplifier

The 5067FE is a 500 Watt broadband amplifier that covers the 20 – 1000 MHz frequency range. This amplifier utilizes Class A/AB linear power devices that provide an excellent 3rd order intercept point, high gain, and a wide dynamic range.

Due to robust engineering and employment of the most advanced devices and components, this amplifier achieves high efficiency operation with proven reliability. Like all OPHIR_{RF} amplifiers, the 5067FE comes with an extended multiyear warranty.

	<u>Parameter</u>	Specification @ 25° C	
<u>Electrical</u>			
1	Frequency Range	20 – 1000 MHz	
2	Saturated Output Power	500 Watts rated	
3	Power Output @ 1dB Comp.	250 Watts min	
4	Small Signal Gain	+58 dB min	
5	Small Signal Gain Flatness	<u>+</u> 2.0 dB max <u>+</u> 1.25 dB max with ALC	
6	IP ₃	+63 dBm typical	
7	Input VSWR	2:1 max	
8	Harmonics	-15 dBc typical @ 250 Watts	
9	Spurious Signals	< -60 dBc typical @ 250 Watts	
10	Input/Output Impedance	50 Ohms nominal	
11	AC Input Power	5000 Watts max	
12	AC Input	200 – 240 VAC, single phase	
13	RF Input	0 dBm max	
14	RF Input Signal Format	CW/AM/FM/PM/Pulse	
15	Class of Operation	AB	
Mechanical			
16	Dimensions	31" x 24" x 26"	
17	Weight	190 lb. max	
18	Connectors	Type-N	
19	Grounding	Chassis	
20	Cooling	Internal Forced Air	
<u>Environmental</u>			
21	Operating Temperature	0° C to +50° C	
22	Operating Humidity	95% Non-condensing	
23	Operating Altitude	Up to 10,000' Above Sea Level	
24	Shock and Vibration	Normal Truck Transport	



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CIRCUIT PROTECTIONS

♦ Thermal Shutdown

♦ Built-in Current Monitoring

◊ Over Voltage

♦ Fast High Output VSWR Protection

♦ RF Input Overdrive Protection

Specifications subject to change without notice.

ORDERING MODELS

 FE - Front panel RF connectors with controller option, and full communication ports.

Approved By:	D	ate:
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