5300 Beethoven Street, Los Angeles, CA 90066
TEL: (310)306-5556 • FAX: (310)821-7413
WEB: www.ophirrf.com • E-MAIL: sales@ophirrf.com

MODEL 5217-025

500 - 2500 MHz
100 WATTS
LINEAR POWER RF AMPLIFIER

Solid State Broadband High Power RF Amplifier

The 5217-025 is a 100 Watt broadband amplifier that covers the 500 – 2500 MHz frequency range. This small and lightweight 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 5217-025 comes with an extended multiyear warranty.

	Parameter	Specification @ 25° C
Electrical		
1	Frequency Range	500 – 2500 MHz
2	Saturated Output Power	100 W typical 80 W minimum
3	Small Signal Gain	+50 dB minimum
4	Gain Flatness @ PSAT	+/-2.0 dB maximum +/-1.5 dB typical
5	Input VSWR	2:1 max
6	Harmonics	-20 dBc typical -15 dBc maximum
7	Spurious Signals	-60 dBc maximum -80 dB typical
8	Input/Output Impedance	50 Ohms nominal
9	AC Input Power	1000 Watts max
10	AC Input	100 – 240 VAC, single phase
11	RF Input	+3 dBm max
12	RF Input Signal Format	CW/AM/FM/PM/Pulse
13	Class of Operation	A/AB
Mechanical		
14	Dimensions	19" x 5.25" x 20"
15	Weight	43 lb. max
16	Connectors	Type-N
17	Grounding	Chassis
18	Cooling	Internal Forced Air
Environmental		
19	Operating Temperature	0° C to +50° C
20	Operating Humidity	95% Non-condensing
21	Operating Altitude	Up to 10,000' Above Sea Level
22	Shock and Vibration	Normal Truck Transport

Specifications subject to change without notice.

CIRCUIT CONTROL (w/ E option)

◊ Standby (amplifier disable)
◊ Gain/power setting with 25dB range
◊ VSWR protection Reset
◊ ALC On/ Off

CIRCUIT INDICATIONS (w/ E option)

◊ Forward Power
◊ Reflected power
◊ VSWR Fault
◊ Temp Fault
◊ Gain Setting (VVA) percentage

CIRCUIT PROTECTIONS

◊ Thermal Overload
◊ Over Current
◊ Over Voltage

FE Model Shown

ORDERING MODELS

◊ RE - R model with Ethernet, IEEE488 and RS232
◊ FE - F model with Ethernet, IEEE488 and RS232

ORDERING MODELS

◊ R - Rear Connectors
◊ F - Front Connectors

07/12 Approved By: _____ Date: _____