OPHIR RF

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MODEL 5085

10 kHz - 250 MHz
100 WATTS
LINEAR POWER RF AMPLIFIER

Solid State Broadband High Power RF Amplifier

The 5085 is a 100 Watt broadband amplifier that covers the 10 kHz – 250 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 5085 comes with an extended multiyear warranty.

	Parameter	Specification @ 25° C
Electrical		
1	Frequency Range	0.01 – 250 MHz
2	Saturated Output Power	100 Watts typical
3	Power Output @ 1dB Comp.	60 Watts min
4	Small Signal Gain	+50 dB min
5	Small Signal Gain Flatness	$\pm$ 2.5 dB max
6	IP_3	+54 dBm typical
7	Input VSWR	2:1 max
8	Harmonics	-15 dBc typical @ 60 Watts
9	Spurious Signals	< -60 dBc typical @ 60 Watts
10	Input/Output Impedance	50 Ohms nominal
11	AC Input Power	600 Watts max
12	AC Input	100 – 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	19" x 8.75" x 20"
17	Weight	75 lb. max
18	Connectors	Type-N
19	Grounding	Chassis
20	Cooling	Internal Forced Air
Environmental		
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

Specifications subject to change without notice.

CIRCUIT PROTECTIONS
◊ Thermal Overload
◊ Over Current
◊ Over Voltage

CIRCUIT INDICATIONS (w Controller Option)
◊ Forward Power
◊ Reflected power
◊ VSWR Fault
◊ Temp Fault
◊ Gain Setting (VVA) percentage

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

FE Model Shown