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MODEL 5800589

10 kHz - 230 MHz
25 WATTS
LINEAR POWER RF AMPLIFIER

Solid State Broadband High Power RF Amplifier

The 5800589 is a 25 Watt broadband amplifier that covers the 0.01 – 230 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 5800589 comes with an extended multiyear warranty.

	Parameter	Specification @ 25° C
Electrical		
1	Frequency Range	0.01 – 230 MHz
2	Saturated Output Power	25 Watts typical
3	Power Output @ 1dB Comp.	15 Watts min
4	Small Signal Gain	+44 dB min
5	Small Signal Gain Flatness	± 1.5 dB max
6	IP ₃	+48 dBm typical
7	Input VSWR	2:1 max
8	Harmonics	-15 dBc typical @ 15 Watts
9	Spurious Signals	< -60 dBc typical @ 15 Watts
10	Input/Output Impedance	50 Ohms nominal
11	DC Input Power	200 Watts max
12	DC Input	28 V DC
13	RF Input	0 dBm max
14	RF Input Signal Format	CW/AM/FM/PM/Pulse
15	Class of Operation	AB
Mechanical		
16	Dimensions	10.25" x 6.72" x 4.6"
17	Weight	25 lb. max
18	Connectors	Male SMA Pigtail
19	Grounding	Terminal block
20	Cooling	Adequate Ventilation Required
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

FEATURES:

Heatsink and fans included.

Specifications subject to change