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MODEL 5803027-010

20-500 MHz
10 WATTS (P-1dB)
LINEAR POWER RF AMPLIFIER

Solid State Broadband High Power RF Amplifier

The 5803027-010 is a 10 Watt broadband amplifier that covers the 20-500 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 5803027-010 comes with an extended multiyear warranty.

	Parameter	Specification @ 25° C
Electrical		
1	Frequency Range	20-500 MHz
3	Power Output @ 1dB Comp.	10 Watts min
4	Small Signal Gain	+32 dB min
5	Gain Flatness	± 1.5 dB max
6	IP ₃	+46 dBm typical
7	Input VSWR	2:1 max
8	Harmonics	-20 dBc typical @ 10 Watts
9	Spurious Signals	< -60 dBc typical @ 10 Watts
10	Input/Output Impedance	50 Ohms nominal
11	DC Input Current	6.5 Amps max
12	DC Input	28 VDC nominal
13	RF Input	+10 dBm max
14	RF Input Signal Format	CW/AM/FM/PM/Pulse
15	Class of Operation	A
Mechanical		
16	Dimensions (w/Heatsink)	8.7" x 5.2" x 3.5"
17	Weight (w/Heatsink)	6 lb. max
18	Connectors	SMA female
19	Grounding	Chassis
20	Cooling	Adequate Heatsink Required
Environmental		
21	Baseplate 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.



FEATURES:

Heatsink and Fans Included (Not Shown)