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MODEL 5802027
1.8 - 2.0 GHz
12 WATTS
LINEAR POWER RF AMPLIFIER

**Solid State
 Band-Specific High
 Power RF Amplifier**

The 5802027 is a 12 Watt amplifier that covers the 1.8—2.0GHz 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 5802027 comes with an extended warranty.

	<u>Parameter</u>	<u>Specification @ 25 °C</u>
<u>Electrical</u>		
1	Frequency Range	1.8 - 2.0 GHz
2	Instantaneous Bandwidth	60 MHz min
3	Saturated Output Power	12 Watts typ. @ 60 MHz bandwidth 10 Watts typ. @ 1.8 to 2.0 GHz
4	Power Output @ 1dB Comp.	10 Watts min @ 60 MHz bandwidth 8Watts @ 1.8 to 2.0 GHz
5	Small Signal Gain	+42 dB min
6	Gain Flatness	±1.0 dB max (60 MHz) ±1.5 dB max (Full band)
7	IP ₃	+50 dBm min
8	Input VSWR	2:1 max.
9	Harmonics	-20 dBc typical @ 10 W Pout
10	Spurious Signals	< -60 dBc typical @ 10 W Pout
11	DC Input Current	5.0 Amps max
12	DC Input	13 VDC nominal
13	RF Input	+10 dBm max
14	RF Input Signal Format	CW/AM/FM/PM/Pulse
15	Class of Operation	AB
16	Input/Output Impedance	50 Ohms nominal
<u>Mechanical</u>		
18	Dimensions (With Heatsink and Fans)	8.5" x 3.5" x 5.2"
19	Weight (With Heatsink and Fans)	8 lbs
20	Connectors	SMA female
21	Grounding	Chassis
22	Cooling	Adequate Heatsink Required
<u>Environmental</u>		
23	Baseplate Temperature	0° C to +50° C
24	Operating Humidity	95% Non-condensing
25	Operating Altitude	Up to 10,000' Above Sea Level
26	Shock and Vibration	Normal Truck Transport

Specifications subject to change without notice.

FEATURES:
 Heatsink and Fans Included

