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## MODEL 5803027-005

**400 - 450 MHz**  
**25 WATTS**  
**LINEAR POWER RF AMPLIFIER**

### Solid State Broadband High Power RF Amplifier

The 5803027-005 is a 25 Watt broadband amplifier that covers the 400-450 MHz frequency range. This small and lightweight amplifier utilizes Class A/AB linear power devices that provide an excellent 3<sup>rd</sup> 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<sub>RF</sub> amplifiers, the 5803027-005 comes with an extended multiyear warranty.

	Parameter	Specification @ 25° C
<b><u>Electrical</u></b>		
1	Frequency Range	400-450 MHz
2	Saturated Output Power	25 Watts typical
3	Power Output @ 1dB Comp.	15 Watts min
4	Small Signal Gain	+44 dB min
5	Gain Flatness	± 1.5 dB max
6	IP <sub>3</sub>	+47 dBm typical
7	Input VSWR	2:1 max
8	Harmonics	-30 dBc typical @ 15 Watts
9	Spurious Signals	> -60 dBc typical @ 15 Watts
10	Input/Output Impedance	50 Ohms nominal
11	DC Input Current	4 Amps max
12	DC Input	28 VDC nominal
13	RF Input	0 dBm
14	RF Input Signal Format	CW/AM/FM/PM/Pulse
15	Class of Operation	AB
16	Rise Time / Fall Time	> 100 usec
<b><u>Mechanical</u></b>		
17	Dimensions	8.7" x 5.2" x 3.5"
18	Weight	6 lb. max
19	Connectors	SMA female
20	Grounding	Chassis
21	Cooling	Adequate Heatsink Required
<b><u>Environmental</u></b>		
22	Baseplate Temperature	0° C to +50° C
23	Operating Humidity	95% Non-condensing
24	Operating Altitude	Up to 10,000' Above Sea Level
25	Shock and Vibration	Normal Truck Transport



### FEATURES:

Heatsink and Fans Included (Not Shown)

Approved By: \_\_\_\_\_ Date: \_\_\_\_\_