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## MODEL 5303075-003

728-768 MHz

2.5 WATTS

LINEAR POWER RF AMPLIFIER

### Solid State Broadband High Power RF Amplifier

The 5303075-003 is a 3 Watt broadband amplifier that covers the 700-768 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 5303075-003 comes with an extended warranty.

	Parameter	Specification @ 25° C
<b><u>Electrical</u></b>		
1	Frequency Range	728-768 MHz
2	Saturated Output Power	2.5 Watts typical
3	Power Output @ 1dB Comp.	2.0 Watts min
4	Small Signal Gain	+41 dB min
5	Gain Flatness	± 0.5 dB max
6	IP <sub>3</sub>	+39 dBm typical
7	Input VSWR	2:1 max
8	Efficiency	18% minimum
9	Noise Figure	5 dB max
10	Harmonics	-20 dBc typical @ 2.0 Watt
11	Spurious Signals	< -60 dBc typical @ 2.0 Watt
12	Input/Output Impedance	50 Ohms nominal
13	DC Input Current	1000 mA max
14	DC Input	13 VDC nominal
15	RF Input	+0 dBm max -5 dBm nominal for rated power
16	RF Input Signal Format	CW/AM/FM/PM/Pulse
17	Class of Operation	A/AB
<b><u>Mechanical</u></b>		
18	Dimensions	3.0" x 2.2" x 0.6"
19	Weight	0.5 Lb.
20	Connectors	SMA female
21	Grounding	Chassis
22	Cooling	Adequate Heatsink Required
<b><u>Environmental</u></b>		
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.

