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**MODEL 5303055-005**  
**0.5 - 2.0 MHz**  
**30 WATTS**  
**LINEAR POWER RF AMPLIFIER**

### Solid State Broadband High Power RF Amplifier

The 5303055-005 is a 30 Watt broadband amplifier that covers the 0.5-2.0 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 5303055-005 comes with an extended multiyear war-

	Parameter	Specification @ 25° C
<b>Electrical</b>		
1	Frequency Range	0.5-2.0 MHz
2	Saturated Output Power	30 Watts typical
3	Power Output @ 1dB Comp.	20 Watts min
4	Small Signal Gain	+46 dB min
5	Gain Flatness	± 1.0 dB max
6	IP <sub>3</sub>	+51 dBm typical
7	Input VSWR	2:1 max
8	Harmonics	-15 dBc typical @ 20 Watts
9	Spurious Signals	< -60 dBc typical @ 20 Watts
10	Input/Output Impedance	50 Ohms nominal
11	DC Input Current	4.5 Amps max
12	DC Input	28 VDC nominal
13	RF Input	+0 dBm for rated power
14	RF Input Signal Format	CW/AM/FM/PM/Pulse
15	Class of Operation	AB
<b>Mechanical</b>		
16	Dimensions	6" x 3" x 1.1"
17	Weight	1.0 lb. max No Heatsink
18	Connectors	SMA female
19	Grounding	Chassis
20	Cooling	Adequate Heatsink Required
<b>Environmental</b>		
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.



### Protection Features

Load VSWR 5:1 Full Operating Power  
 Thermal Overload: Shutdown at 85°C  
 Input Overdrive Protection; Protected to +6dBm

### Options

Heatsink  
 Heatsink and Fans