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**MODEL 5303136**  
**6.0-18.0 GHz**  
**30 WATTS**  
**LINEAR POWER RF AMPLIFIER**

**Solid State  
 Broadband High  
 Power RF Amplifier**

The 5303136 is a 30 Watt broadband amplifier that covers the 6.0-18.0 GHz 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 5303136 comes the OPHIR<sub>RF</sub> total commitment to quality

Specifications subject to change without notice.

	Parameter	Specification @ 25° C
<b><u>Electrical</u></b>		
1	Frequency Range	6.0-18.0 GHz
2	Saturated Output Power	30 Watts typical
3	Small Signal Gain	+40 dB min
4	Stability	Stable into any load
5	Gain Flatness	± 3.0 dB max
6	*IP <sub>3</sub>	+43 dBm typical
7	Output VSWR	1.5:1 typical
8	Input VSWR	1.5:1 typical
9	Harmonics	-40 dBc max @ 10 Watts
10	Spurious Signals	< -60 dBc max
11	Gain Stability over Temperature	+/- 2.8dB
12	Input/Output Impedance	50 Ohms nominal
13	Power Supply	230VDC, 50Hz Optional 28VDC or 48VDC
14	RF Input Signal Format	CW/AM/FM/PM/Pulse
<b><u>Mechanical</u></b>		
15	Connectors	SMA female
16	I/O Connector	MS-3102 Bulkhead Connector for Power
17	Grounding	Chassis
18	Cooling	Adequate Heatsink Required (Included), with fans (Included)
<b><u>Environmental</u></b>		
19	Baseplate Temperature	-20° C to +60° C
20	Operating Humidity	95% Non-condensing
21	Operating Altitude	Up to 10,000' Above Sea Level
22	Shock and Vibration	Normal Truck Transport

