

MODEL 5303130
0.8 - 4.2 GHz
15 WATTS
LINEAR POWER RF AMPLIFIER

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

The 5303130 is a 15 Watt broadband amplifier that covers the 0.8-4.2 GHz 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. This is an RF Amplifier assembly comprising an output RFPA combined with a separate driver PA module.

Due to robust engineering and employment of the most advanced devices and components, this amplifier achieves high efficiency operation with proven reliability.

	Parameter	Specification @ 25 °C
<u>Electrical</u>		
1	Frequency Range	0.8 – 4.2 GHz
2	Saturated Output Power	15 Watts Minimum
3	Power Output @ 1dB Comp.	10 Watts Minimum
4	Small Signal Gain	43 dB min
5	Gain Flatness	± 2 dB max
6	IP ₃	+50 dBm typical
7	Input VSWR	2:1 max
8	Harmonics	-20 dBc typical @ 10 Watts
9	Spurious Signals	> -60 dBc typical @ 10 Watts
10	Input/Output Impedance	50 Ohms nominal
11	DC Input Current	10 Amps max
12	DC Input	13 VDC nominal
13	RF Input	0 dBm nominal
14	Maximum RF input	+10dBm max
15	Class of Operation	A/AB
<u>Mechanical</u>		
15	Dimensions	6.1" x 11.0" x 1.1"
16	Weight	3.5 lb. max
17	Connectors	SMA Female
18	Grounding	Chassis
19	Cooling	Internal Forced Air
<u>Environmental</u>		
20	Operating Temperature	-40° C to +85° C
21	Operating Humidity	95% Non-condensing
22	Operating Altitude	Up to 20,000' Above Sea Level
23	Shock and Vibration	MIL-STD-810F Method 516.5

Specifications subject to change without notice

Features

- ◇ - Full Gain Unit
- ◇ - Very Linear Power
- ◇ - Wide Operating Temperature Range
- ◇ - Ruggedized Airborne Unit



Similar RFPA Module