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**MODEL 5303130**  
**1.0 - 6.0 GHz**  
**0.5 WATTS**  
**LINEAR POWER RF AMPLIFIER**

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

The 5303130 is a 0.5 Watt broadband amplifier that covers the 1.0 - 6.0 GHz frequency range. This small and lightweight amplifier utilizes Class A 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.

The 5303130 is designed as a wide-band driver for various applications.

	<u>Parameter</u>	<u>Specification @ 25 °C</u>
<b><u>Electrical</u></b>		
1	Frequency Range	1.0 – 6.0 GHz
2	Saturated Output Power	0.5 Watts typical
3	Small Signal Gain	+26 dB min
4	Gain Flatness	± 2.5 dB max
5	Power Flatness	± 1.5 dB max
6	IP <sub>3</sub>	+35 dBm typical
7	Input VSWR	2:1 max
8	Harmonics	-20 dBc typical @ 0.5 Watts
9	Spurious Signals	< -60 dBc typical @ 0.5 Watts
10	Input/Output Impedance	50 Ohms nominal
11	Noise Figure	8 dB nominal
12	DC Input Current	1.5 Amps max
13	DC Input	20 - 36 Vdc
14	RF Input for rated power	0 dBm nominal
15	Maximum RF input	+3 dBm max
16	Class of Operation	A
<b><u>Mechanical</u></b>		
17	Dimensions	3.4" x 2.2" x 0.7"
18	Weight	3.5 lb. max
19	Connectors	SMA Female
20	Grounding	Chassis
21	Cooling	Heatsink and adequate airflow
<b><u>Environmental</u></b>		
22	Operating 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 transportation

Specifications subject to change without notice

