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**MODEL 5303110**  
**3.0 - 3.3 GHz**  
**25 WATTS**  
**LINEAR POWER RF AMPLIFIER**

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

The 5303110 is an 25 Watt broadband amplifier that covers the 3.0 – 3.3 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.

	Parameter	Specification @ 25° C
<b><u>Electrical</u></b>		
1	Frequency Range	3.0 – 3.3 GHz
2	Saturated Output Power	25 Watts typical Up to 2dB degradation @ 2.9GHz
3	Power Output @ 1dB Comp.	16 Watts min Up to 2dB degradation @ 2.9GHz
4	Small Signal Gain	+25 dB min
5	Gain Flatness	± 2 dB max
6	IP <sub>3</sub>	+54 dBm min
7	Input / Output VSWR	1.5:1 max
8	Harmonics	-20 dBc typical
9	Spurious Signals	< -60 dBc max
10	Input / Output Impedance	50 Ohms nominal
11	DC Input Current	11Amps max
12	DC Input	12 VDC nominal
13	RF Input Signal Format	CW/AM/FM/PM
14	Class of Operation	A/AB
<b><u>Mechanical</u></b>		
15	Dimensions	6.55" x 4" x 1.1"
16	Weight	3 lb. max
17	Connectors	SMA female
18	Grounding	Chassis
19	Cooling	Adequate Heat sink Required
<b><u>Environmental</u></b>		
20	Baseplate Temperature	0° C to +50° C
21	Operating Humidity	95% Non-condensing
22	Operating Altitude	Up to 10,000' Above Sea Level
23	Shock and Vibration	Normal Truck Transport