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MODEL 5303109

1.0-2.0 GHz
25 WATTS
LINEAR POWER RF AMPLIFIER

Solid State Band-specific High Power RF Amplifier

The 5303109 is an 25 Watt broadband amplifier that covers the 1.0-2.0 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.

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
Electrical		
1	Frequency Range	1.0-2.0 GHz
2	Saturated Output Power	25 Watts typical
3	Small Signal Gain	+43 dB min
4	Gain Flatness	± 3.5 dB max
5	IP ₃	+52 dBm min
6	Input / Output VSWR	2:1 max
7	Harmonics	-20 dBc typical
8	Spurious Signals	< -60 dBc typical
9	Input / Output Impedance	50 Ohms nominal
10	DC Input Current	12Amps max
11	DC Input	13 VDC nominal
12	RF Input	+20dBm Maximum
13	RF Input Signal Format	CW/AM/FM/PM
14	Class of Operation	A/AB
Mechanical		
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
Environmental		
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

Specifications subject to change without notice

