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MODEL 5303100

100-512 MHz
100 WATTS
LINEAR POWER RF AMPLIFIER

Solid State Band-specific High Power RF Amplifier

The 5303100 is an 100Watt broadband amplifier that covers the 100-512 MHz 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
<u>Electrical</u>		
1	Frequency Range	100-512 MHz
2	Saturated Output Power	100Watts min
3	Output power into 3:1 load	50dBm +/-1.5dB
4	RF input dynamic range for Pout=100W	-3dBm +/-3dB
5	Input / Output VSWR	2:1 max
6	Harmonics	-20 dBc typical
7	Spurious Signals	> -60 dBc max
8	Input / Output Impedance	50 Ohms nominal
9	DC Input Power @ Pout=100W	300W max
12	DC Input	18 to 36 VDC
13	RF Input Signal Format	CW/AM/FM/PM
14	Class of Operation	A/AB
<u>Mechanical</u>		
15	Dimensions	6" x 5" x 2"
16	Weight	3 lb. max
17	Connectors	SMA female for RF D-sub for voltage and control
18	Grounding	Chassis
19	Cooling	Adequate Heat sink Required
<u>Environmental</u>		
20	Baseplate Temperature	-20° C to +70° C
21	Operating Humidity	95% Non-condensing
22	Operating Altitude	Up to 10,000' Above Sea Level
23	Shock and Vibration	Normal Truck Transport