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MODEL 5303137
20-1000 MHz
150 WATTS
LINEAR POWER RF AMPLIFIER

**Solid State
 Broadband High
 Power RF Amplifier**

The 5303137 is a 150 Watt broadband amplifier that covers the 20-1000 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.

Specifications subject to change without notice

	Parameter	Specification @ 25° C
Electrical		
1	Frequency Range	20-1000 MHz
2	Output power @ Psat	150 Watts typical*
3	Small Signal Gain	+53 dB min
4	Small Signal Gain Flatness	+/-2.5 dB max
5	Input /Output VSWR	2:1 max
6	Harmonics	-20 dBc max
7	Spurious Signals	-60 dBc max
8	Input/Output Impedance	50 Ohms nominal
9	DC Input Power	20 A max
10	DC Input	+28 - 50 Vdc
11	RF Input Power	0 dBm nominal
12	RF Input Signal Format	CW/AM/FM/PM/Pulse
13	Class of Operation	A/AB
14	Interface	D-sub 9
Mechanical		
15	Dimensions	12" x 6.5" x 1"
16	Weight	10 lbs. max
17	Connectors	Type-N for RF Filtered D-sub for control and indications
18	Grounding	Chassis
19	Cooling	Adequate Heatsink Required
Environmental		
20	Baseplate Temperature	-10° C to +60° C
21	Operating Humidity	95% Non-condensing
22	Operating Altitude	Up to 10,000' Above Sea Level
23	Shock and Vibration	Normal Truck Transport

Pin:	Description:
1	+28 to 50 Vdc
2	+28 to 50 Vdc
3	NC
4	NC
5	Temp Indication (LM35 0.1V/10°C)
6	+28 to 50 Vdc
7	+28 to 50 Vdc
8	NC
9	Enable: 3-5 Vdc = Enable <0.5 Vdc = Off

* Data taken at +50 Vdc input

