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## MODEL 5303122

0.8 - 2.5 GHz

100 WATTS

LINEAR POWER RF AMPLIFIER

### Solid State Broadband High Power RF Amplifier

The 5303122 is a 100 Watt broadband amplifier that covers the 0.8 – 2.5 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.

The 5303122 includes a built in Dual directional coupler which provides forward and reflected RF sample. 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

### D-SUB Connector Pin-Out

<u>Pin</u>	<u>Description</u>
◇ 1	+50V
◇ 2	+50V
◇ 3	No Connection
◇ 4	No Connection
◇ 5	No Connection
◇ 6	+50V
◇ 7	+50V
◇ 8	No Connection
◇ 9	Enable/Disable

	<u>Parameter</u>	<u>Specification @ 25° C</u>
<b><u>Electrical</u></b>		
1	Frequency Range	0.8 – 2.5 GHz
2	Output power @ Psat	100 Watts typical
3	Small Signal Gain	+52 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	15A max
10	DC Input	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
15	Module Enable	TTL : 5V for enable
<b><u>Mechanical</u></b>		
16	Dimensions	15" x 6.5" x 1.5"
17	Weight	10 lb. max
18	Connectors	SMA for RF input Type-N for RF Output D-sub for control & indications Ground lug for Ground
19	Grounding	Chassis
20	Cooling	Adequate Heatsink Required
<b><u>Environmental</u></b>		
21	Ambient Temperature	0° C to +70° C base plate
22	Operating Humidity	95% Non-condensing
23	Operating Altitude	Up to 10,000' Above Sea Level
24	Shock and Vibration	Normal Truck Transport

