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MODEL 5303124-001

800 - 900 MHz
300 WATTS
LINEAR POWER RF AMPLIFIER

Solid State Broad-band High Power RF Amplifier

The 5303124-001 is a 300 Watt broadband amplifier that covers the 800 – 900 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

*Data taken at +48 Vdc input

DSUB Connector Pin-Out

<u>Pin</u>	<u>Description</u>
◇ 1	+28-48 Vdc
◇ 2	+28-48 Vdc
◇ 3	No Connection
◇ 4	No Connection
◇ 5	Temp Indication
◇ 6	+28-48 Vdc
◇ 7	+28-48 Vdc
◇ 8	No Connection
◇ 9	Enable/Disable

	<u>Parameter</u>	<u>Specification @ 25° C</u>
<u>Electrical</u>		
1	Frequency Range	800 – 900 MHz
2	Output power @ Psat	300 Watts typical*
3	Output power @ P1dB	150 Watts min*
4	Small Signal Gain	+56 dB min*
5	Small Signal Gain Flatness	+/-1.5 dB max
6	Input /Output VSWR	2:1 max
7	Harmonics	-20 dBc max
8	Spurious Signals	-60 dBc max
9	Input/Output Impedance	50 Ohms nominal
10	DC Input Power	15 A nominal*
11	DC Input	28-48 Vdc
12	RF Input Power	0 dBm nominal
13	RF Input Signal Format	CW/AM/FM/PM/Pulse
14	Class of Operation	A/AB
15	Interface	D-sub
16	Module Enable	Logic : 3-5 Vdc = enable <0.5 Vdc = disable
17	Temperature Indication	LM35 1V/10°C
<u>Mechanical</u>		
19	Dimensions	17" x 6.5" x 5"
20	Weight	25 lbs. max
21	Connectors	SMA for RF input Type-N for RF Output D-sub for control & indications Ground lug for Ground
22	Grounding	Chassis
23	Cooling	Adequate Heatsink and air flow Required
<u>Environmental</u>		
24	Ambient Temperature	0° C to +50° C
25	Operating Humidity	95% Non-condensing
26	Operating Altitude	Up to 10,000' Above Sea Level
27	Shock and Vibration	Normal Truck Transport

