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**MODEL 5303106**

**0.01 - 50 MHz**  
**200 WATTS**  
**LINEAR POWER RF AMPLIFIER**

## Solid State Broadband High Power RF Amplifier

The 5303106 is a 200 Watt broadband amplifier that covers the 0.01 – 50 MHz 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.

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
<b>Electrical</b>		
1	Frequency Range	0.01 – 50 MHz
2	Output power @ Psat	200 Watts min*
3	Power Output @ 1dB Comp.	100 Watts min*
4	Small Signal Gain	+52 dB min
5	Small Signal Gain Flatness	+/-1.5 dB max
6	Input VSWR	2:1 max
7	Harmonics	-20 dBc max
8	Spurious Signals	< -60 dBc
9	Input/Output Impedance	50 Ohms nominal
10	DC Input Power	14 A max*
12	DC Input	32 to 42 Vdc
13	RF Input Power	0 dBm nominal <b>+3 dBm maximum</b>
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 0.1V/10°C
<b>Mechanical</b>		
18	Dimensions	12" x 8" x 5"
19	Weight	11 Lbs.
20	Connectors	SMA for RF input Type-N for RF Output D-sub for control & indications Ground lug for Ground
21	Grounding	Chassis
22	Cooling	Adequate heatsink and fans required
<b>Environmental</b>		
24	Ambient Temperature	-20° C to +65° C
25	Operating Humidity	95% Non-condensing
26	Operating Altitude	Up to 10,000' Above Sea Level
27	Shock and Vibration	Normal Truck Transport

D-Sub 1		D-Sub 2	
Pin	Description	Pin	Description
1	+32 to 42 VDC	1	NC
2	+32 to 42 VDC	2	NC
3	NC	3	NC
4	NC	4	NC
5	NC	5	Temp
6	+32 to 42 VDC	6	NC
7	+32 to 42 VDC	7	NC
8	NC	8	NC
9	NC	9	Enable/Disable

Specifications subject to change without notice

\*Data taken at +42 Vdc input