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MODEL 5803107-360

300 - 1000 MHz

150 WATTS

LINEAR POWER RF AMPLIFIER

Solid State Broadband High Power RF Amplifier

The 5803107-360 is a 150 Watt broadband amplifier that covers the 300 – 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.

The 5803107-360 comes with Heatsink and Fan (Fans operate on 12VDC). An Output Directional Coupler for forward and reverse power sampling.

Due to robust engineering and employment of the most advanced devices and components, this amplifier achieves high efficiency operation with proven reliability.

	<u>Parameter</u>	<u>Specification @ 25° C</u>
<u>Electrical</u>		
1	Frequency Range	300 – 1000 MHz
2	Output power @ Psat	150 Watts min
4	Small Signal Gain	+55 dB min
5	Small Signal Gain Flatness	+/-2.0 dB max
6	Input VSWR	2.2:1 max
7	Harmonics	-20 dBc max
8	Spurious Signals	< -60 dBc
9	Input/Output Impedance	50 Ohms nominal
10	DC Input Power	15A max
12	DC Input	+36 to 48 VDC For Module
13	RF Input Power	+3 dBm nominal
14	Class of Operation	A/AB
15	Interface	D-sub
16	Module Enable	TTL : 5V for enable
17	Temperature Indication	LM35 0.1V/10°C
<u>Mechanical</u>		
18	Dimensions	TBD
19	Weight	25 lb. max
20	Connectors	SMA for RF input, forward and reverse power sampling Type-N for RF Output D-sub for control & indications Ground lug for Ground
21	Grounding	Chassis
22	Cooling	Adequate Heatsink and Fans supplied
<u>Environmental</u>		
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

PRELIMINARY

Specifications subject to change without notice



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Pin	Description
1	+36 to 48 VDC
2	+36 to 48 VDC
3	NC
4	NC
5	Temp Indication
6	+36 to 48 VDC
7	+36 to 48 VDC
8	NC
9	Enable (TTL Controlled)

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