5300 Beethoven Street, Los Angeles, CA 90066
TEL: (310)306-5556 • FAX: (310)821-7413
WEB: www.ophirrf.com • E-MAIL: sales@ophirrf.com

MODEL 5803107-361

300 - 1000 MHz
150 WATTS
LINEAR POWER RF AMPLIFIER

Solid State Broadband High Power RF Amplifier

The 5803107-361 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 5803107-361 comes with Heatsink and Fan (Fans operate on 12VDC).

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
Electrical		
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
Mechanical		
18	Dimensions	12” x 8” x 5”
19	Weight	25 lb. max
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 supplied
Environmental		
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

06/11 Approved By: _____ Date: _____

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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)

PRELIMINARY

Specifications subject to change without notice

Approved By: _____ Date: _____