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MODEL 5300557
400 - 450 MHz
300 WATTS
LINEAR POWER RF AMPLIFIER

**Solid State
 Broadband High
 Power RF Amplifier**

The 5300557 is a 300 Watt broadband amplifier that covers the 400 – 450 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. Like all OPHIR_{RF} amplifiers, the 5300557 comes with an extended multiyear warranty.

The 5300557, RF Module is designed with an internal Copper Spreader for proper heat dissipation, which must be mounted onto a heatsink.

	<u>Parameter</u>	<u>Specification @ 25° C</u>
<u>Electrical</u>		
1	Frequency Range	400 – 450 MHz
2	Saturated Output Power	300 Watts Minimum
3	Power Output @ 1dB Comp.	180 Watts Minimum
4	Small Signal Gain	+20 dB min
5	Power flatness Small signal gain flatness	± 0.50 dB max ± 1.50 dB max
6	IP ₃	+60 dBm typical
7	Input VSWR	2:1 max
8	Harmonics	≤-20 dBc @ 180 Watts
9	Spurious Signals	≤ -60 dBc @ 180 Watts
10	Input/Output Impedance	50 Ohms nominal
11	DC Input Current	25 Amps max
12	DC Input	28 Vdc nominal 30 Vdc Maximum
13	RF Input	+40 dBm (10 W) max.
14	RF Input Signal Format	CW/AM/FM/PM/Pulse
15	Class of Operation	A
<u>Mechanical</u>		
16	Dimensions	7.2" x 4.1" x 1.0"
17	Weight	3 lb. Maximum
18	Connectors	SMA female / Type-N
19	Grounding	Chassis
20	Cooling	Adequate Heatsink and Air-flow Required
<u>Environmental</u>		
21	Operating Temperature	0° C to +50° C
22	Operating Humidity	95% Non-condensing
23	Operating Altitude	Up to 10,000' Above Sea Level
24	Shock and Vibration	Normal Truck Transport

Specifications subject to change without notice

***Recommended Driver: 5303027**

