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**MODEL 5800795**  
**1.0 - 3 GHz**  
**30 WATTS**  
**LINEAR POWER RF AMPLIFIER**

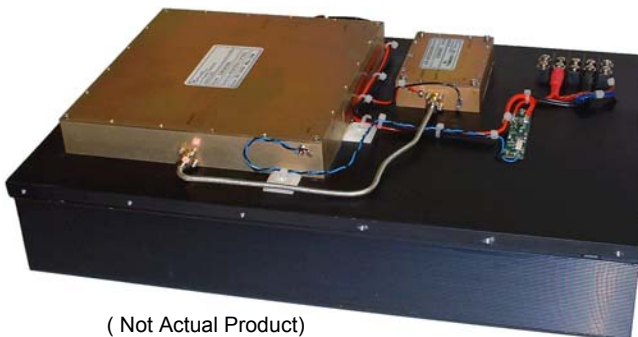
**Solid State  
 Broadband High  
 Power RF Amplifier**

The 5800795 is a 30 Watt broadband full module amplifier that covers the 1.0 – 3 GHz 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. Like all OPHIR<sub>RF</sub> amplifiers, the 5800795 comes with an extended multiyear warranty.

	Parameter	Specification @ 25° C
<b>Electrical</b>		
1	Frequency Range	1.0 – 3 GHz
2	Saturated Output Power	30 Watts typical
3	Power Output @ 1dB Comp.	25 Watts min
4	Small Signal Gain	+47 dB min
5	Gain Flatness	± 1.5 dB max
6	IP <sub>3</sub>	+53 dBm typical
7	Input VSWR	2:1 max
8	Harmonics	-20 dBc typical @ 20 Watts
9	Spurious Signals	< -60 dBc typical @ 20 Watts
10	Input/Output Impedance	50 Ohms nominal
11	DC Input Current	21 Amps max
12	DC Input	13 VDC nominal
13	RF Input	+3 dBm Max.
14	RF Input Signal Format	CW/AM/FM/PM/Pulse
15	Class of Operation	A/AB
<b>Mechanical</b>		
16	Dimensions	9.8" x 16.0" x 4.1"
17	Weight	30 lb. max
18	Connectors	SMA female
19	Grounding	Chassis
20	Cooling	Adequate Heatsink Required
<b>Environmental</b>		
21	Baseplate Temperature	-30° C to +65C
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.



( Not Actual Product)

**FEATURES**

- ◇ Heatsink and Fans
- ◇ Disable Control
- ◇ Shut Down Options:
  1. +5V on, Open/GND off.
  2. GND off, Open on.