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## MODEL 5803039D-007

**50 - 1000 MHz**  
**50 WATTS**  
**LINEAR POWER RF AMPLIFIER**

### Solid State Broadband High Power RF Amplifier

The 5803039D-007 is a 50 Watt broadband amplifier that covers the 50 – 1000 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. Like all OPHIR<sub>RF</sub> amplifiers, the 5803039D-007 comes with an extended multiyear warranty.

	Parameter	Specification @ 25° C
<b>Electrical</b>		
1	Frequency Range	50 – 1000 MHz
2	Saturated Output Power	50 Watts typical
3	Power Output @ 1dB Comp.	30 Watts min
4	Small Signal Gain	+25 dB min
5	Gain Flatness	± 2 dB max
6	IP <sub>3</sub>	+51 dBm typical
7	Input VSWR	2:1 max
8	Harmonics	-20 dBc typical @ 30 Watts
9	Spurious Signals	< -60 dBc typical @ 30 Watts
10	Input/Output Impedance	50 Ohms nominal
11	DC Input Current	14 Amps max
12	DC Input	28 VDC nominal
13	RF Input	+22 dBm
14	Blanking Noise	10dB above KTB
15	Blanking Time OFF to ON Blanking Time ON to OFF	10uS to 0.5dB below max power 1uS On to Off
<b>Mechanical</b>		
16	Dimensions (w/Heatsink)	17.5" x 9.8" x 4.1"
17	Weight (w/Heatsink)	22 lbs. max
18	Connectors	SMA female
19	Grounding	Chassis
20	Cooling	Adequate Airflow Required
<b>Environmental</b>		
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



### FEATURES:

Heatsink and Fans Included (Not Shown)