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MODEL 5803058A

500 - 1000 MHz 50 WATTS LINEAR POWER RF AMPLIFIER

Solid State Broadband High Power RF Amplifier

The 5803058A is a 50 Watt broadband amplifier that covers the 500 – 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.

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 5803058A comes with an extended multiyear warranty.

Electrical Specification @ 25° C 1 Frequency Range 500 – 1000 MHz 2 Saturated Output Power 50 Watts typical 3 Power Output @ 1dB Comp. 30 Watts min 4 Small Signal Gain +48 dB min 5 Gain Flatness ± 1.5 dB max 6 IP3 +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 (w/Fans) 8.5 Amps max 12 DC Input 28 VDC nominal 13 RF Input -1 dBm 14 RF Input Signal Format CW/AM/FM/PM/Pulse 15 Class of Operation AB
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15 Class of Operation AB
<u>Mechanical</u>
16 Dimensions (w/Heatsink) 8.7" x 5.2" x 3.5"
17 Weight (w/Heatsink) 6 lb. max
18 Connectors SMA female
19 Grounding Chassis
20 Cooling Adequate Airflow 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.



FEATURES:

Heatsink and Fans Included (Not Shown)