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MODEL 4080

**2.11 - 2.17 GHz
30 WATTS W-CDMA
LINEAR POWER RF AMPLIFIER**

Solid State WideBand-CDMA High Power RF Amplifier

The 4080 is a 30 Watt Wideband-CDMA amplifier that covers the 2.11 – 2.17 GHz frequency range. This small and lightweight amplifier utilizes Class A/AB linear GaAs FET power devices that provide excellent linearity, 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 4080 comes with an extended multiyear

	Parameter	Specification @ 25° C
<u>Electrical</u>		
1	Frequency Range	2.11 – 2.17 GHz
2	Power Output W-CDMA * (3GPP)	30 Watts typical
3	Small Signal Gain	+45 dB min
4	Small Signal Gain Flatness	± 0.75 dB max
5	Input / Output VSWR	1.5:1 max
6	Harmonics	-20 dBc @ 30 Watts
7	Spurious Signals	< -60 dBc @ 30 Watts
8	Input/Output Impedance	50 Ohms nominal
9	DC Power Consumption	500 Watts @ 30 W Pout
10	DC Input	13 Volts nominal
11	RF Input	0 dBm nominal
<u>Mechanical</u>		
12	Dimensions	19" x 5.25" x 20"
13	Weight	60 lb. max
14	Connectors	Type-N
15	Grounding	Chassis
16	Cooling	Internal Forced Air
<u>Environmental</u>		
17	Operating Temperature	0° C to +50° C
18	Operating Humidity	95% Non-condensing
19	Operating Altitude	Up to 10,000' Above Sea Level
20	Shock and Vibration	Normal Truck Transport

Specifications subject to change without notice.

* W-CDMA Signal Format: Total composite waveform has a peak-to-average power ratio of 10.2dB.

CIRCUIT PROTECTIONS

◇ Thermal Overload

ORDERING MODELS

- ◇ R - Rear Panel Connectors
- ◇ F - Front Panel Connectors
- ◇ RE - R model w/Control Option
- ◇ FE - F model w/Control Option
- ◇ RT - RE model w/Ethernet Interface
- ◇ FT - FE model w/Ethernet Interface

Preliminary Specification