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MODEL 4078

**214 MHz
1.5 KW PEAK
LINEAR POWER RF AMPLIFIER**

Solid State Band-specific High Power RF Amplifier

The 4078 is a 1.5KW 214MHz Pulsed RF Amplifier. This Product is the perfect choice for driving High Power Tuned Cavities in Accelerator Laboratory Applications.

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 4078 comes with an extended multiyear warranty.

	Parameter	Specification @ 25 °C
<u>Electrical</u>		
1	Operating Frequency	214 MHz, +/-1MHz
2	Saturated Output Power	1.5KW Peak Minimum
3	Power Output @ 1dB Comp.	1.0KW Peak minimum
4	Small Signal Gain	+12 dB min
5	RF Input for Rated Power	+50dBm
6	Pulse Width	50 microseconds maximum
7	Rise/Fall Time	5 microseconds maximum
8	Pulse Repetition Rate	60Hz nominal
9	Output Amplitude Stability	< 5% In Relation to the Input RF Amplitude
10	Output Phase Stability	< 0.5° in Relation to the Input Pulse signal from one Pulse to the Next Pulse
11	Output VSWR	Normal Operation with Full Reflection from Load
12	High Duty Cycle Protection	Fully Protected from Higher than normal Duty Cycle
13	AC Input Power	3000 Watts Peak Maximum
14	AC Input	208 VAC ,+/- 10%, 3Ø, 47-63Hz
<u>Mechanical</u>		
15	Dimensions (W x H x L)	19" x 7.0" x 24"
16	Weight	70 lb. max
17	Connectors	Type-N
18	Grounding	Chassis
19	Cooling	Internal Forced Air
<u>Environmental</u>		
20	Operating Temperature	0° C to +40° C
21	Operating Humidity	95% Non-condensing
22	Operating Altitude	Up to 10,000' Above Sea Level
23	Shock and Vibration	Normal Truck Transport

CIRCUIT INDICATIONS AND FEATURES

- ◇ Power On or Off thru TTL Levels
- ◇ Output Enable or Disable thru External Relay Contact
- ◇ Temp Fault thru Front Panel LED
- ◇ Unconditionally stable into any phase or Amplitude Angle

CIRCUIT PROTECTIONS

- ◇ Thermal Overload
- ◇ Over Current
- ◇ Over Voltage
- ◇ Infinite Load VSWR using an Isolator
- ◇ High Duty Cycle Protection

ORDERING MODELS

- ◇ R - Rear RF Connectors
- ◇ F - Front RF Connectors

Specifications subject to change without notice.

R Model Shown

