

0.01-18.5 GHz

Broadband Power Sensor



- RF Input and DC Voltage Outputs
- The Impedance of the RF Input is matched into 50 ohms
- Power conversion is accomplished with a pair of thermocouple elements

Specifications

0.01 to 18.5 GHz

FREQUENCY RANGE (GHz)	MODEL	TYPICAL POWER (mW)	MAXIMUM POWER* (mW)	PULSE POWER** (W max.)	TYPICAL SENSITIVITY (mV/mW)	DYNAMIC RANGE (dB)	TEMPERATURE COEFFICIENT	OPERATING TEMPERATURE (°C)	VSWR (max.)	CONNECTOR
0.01-18.5	8423	10	30	1	0.32	30	<±0.1%/°C	-40 to +80	1.75 (0.01-0.02 GHz) 1.5 (0.02-10 GHz) 1.6 (10-18.5 GHz)	SMA Male (input) 4 Pin Female (output)

* Must be handled for 1 second minimum

** With shape of 5 W/μsec must be handled for a duration of 5 μsec (at 25° C)

NOTES:

Output range is based on an RF input level of +10 mW, and a temperature of 20° C.

The allowable voltage range at a constant input level for any single unit must be held within 2.2 dB.

Linearity must be verified at 9.5 GHz, over the input power range from + 10 dBm to -10 dBm at 20° C.

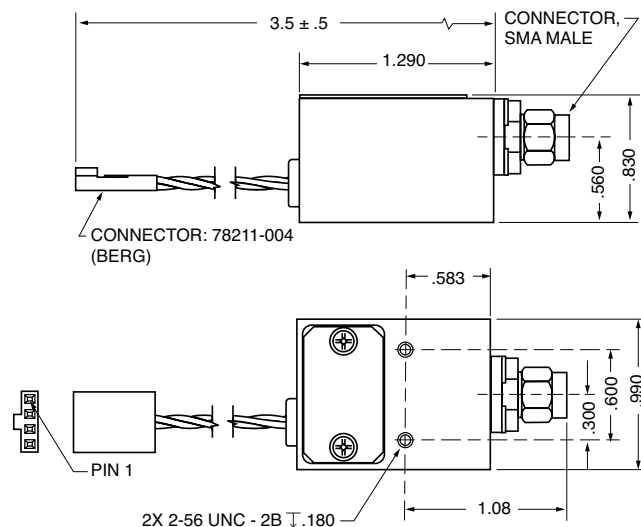
Output Connector Berg 78211-004. Pin 1: Positive Polarity, Pin 2: Ground, Pin 3: Negative Polarity, Pin 4: Not Used.

Input Connector per MIL-C-39012D.

Outline Drawing

PINS		
No.	FUNCTION	COLOR
1	POS	RED
2	GND	GREEN
3	NEG	BLACK

MODEL 4491
Connector mates without interference per MIL-STD-348
Finish: Gold Plate over Nickel
Tolerances ± .005



Dimensions in inches, unless otherwise specified.