

Broadband Power Sensor



Features

- 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

Models

- 8423

Model	8423
Frequency Range (GHz)	.01-18.5
Input Power CW, Typical (mW)	10
Input Power CW, Max* (mW)	30
Sensitivity (mV/mW)	30
Input Power Pulse, Max* (W)	.32
Dynamic Range	30 dB
Temperature Coefficient	<+/-0.1%/°C
Operating Temperature	-40°C to +80°C
VSWR (max)	1.75:1 (.01 to .02 GHz), 1.5:1 (.02 to 10 GHz), 1.6:1 (10 to 18.5 GHz)
Connector	SMA Male (input), 4 Pin Female (output)
Special Notes:	A , B , C , D

Special Notes:

A: *Max CW must be handled for 1 second minimum. Max pulse power, with shape of 5W/usec must be handled for a duration of 5usec (at 25°C).

B: 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 2.2dB.

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

D: Output Connector Berg 78211-004

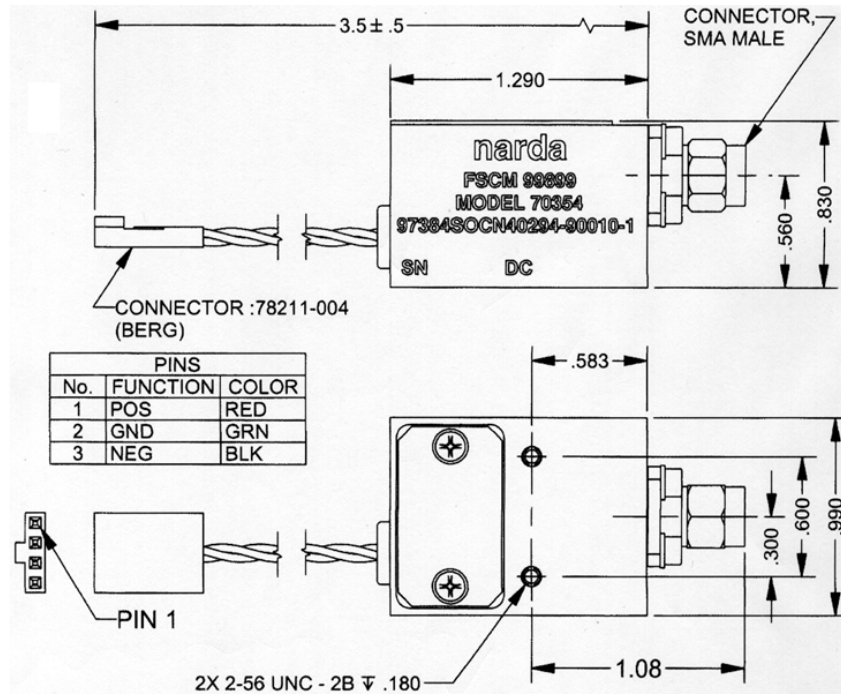
Pin 1: Positive Polarity, Pin 2: Ground, Pin 3: Negative Polarity, Pin 4: Not Used.

Input Connector per MIL-C-39012D.

Power Meters and Monitors

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Outline Drawing for Model 8423

Connector mates without interference per MIL-STD-348. Finish: Gold Plate Over Nickel.
Tolerances: +/- .005