Table 2-1. Peak Power Sensors Specifications

Specifications	
Frequency Range 84812A:	500 MHz to 18 GHz
Frequency Range 84813A:	500 MHz to 26.5 GHz
Frequency Range 84814A:	500 MHz to 40 GHz
Frequency Range 84815A:	50 MHz to 18 GHz* (*typical, 20 MHz to 18 GHz*)
Dynamic Range:	-32 to +20 dBm (Usable to -40 dBm.)
Sensor Calibration RSS Uncertainty:	< 4 GHz: ±3.6% < 12 GHz: ±3.9% < 18 GHz: ±4.3% <26.5 GHz: ±5.6% < 40 GHz: ±6.7%
Input SWR, max (Reflection Coefficient):	84812A/13A/14A 500 MHz to 18 GHz: 1.25 (0.11) 18 GHz to 26.5 GHz: 1.35 (0.15) 26.5 GHz to 40 GHz: 1.60 (0.23) 84815A *20 MHz to 50 MHz: 1.2 (0.09), typical* 50 MHz to 6 GHz: 1.20 (0.09) 6 GHz to 18 GHz: 1.30 (0.13)
Rise/Falltime:	Specifications for sensors are found in the HP 899X Operating Manual.
Maximum Power Input:	1 W peak power for 1 μs, not to exceed 200 mW (CW)
Operating Temperature:	0°C to +55°C

* Below 50 MHz the carrier feedthrough starts to be noticeable due to decreasing video filtering. This effect can be eliminated by averaging except for the statistical functions (PDF and CDF) as used with the HP 8992A.

Peak Power Sensors Specifications (continued)

General Characteristics	
Acoustic Noise Emissions:	No Fan Installed
Geraeuschemission:	Kein Ventilator Eingebaut
Connector HP 84812A/15A:	Type-N Male
Connector HP 84813A:	APC-3.5 mm Male
Connector HP 84814A:	2.4 mm Male
Sensor Cable Length:	1.5 M (5 ft)
Option 001:	6.1 M (20 ft)
Calibration Interval:	18 months
Parameters Corrected for:	Frequency, Temperature, and Power Non-linearity.
Dimensions HP 84812A/15A:	27mm H, 37mm W, 137mm L (1.05" x 1.45" x 5.4")
Dimensions HP 84813A:	27mm H, 37mm W, 127mm L (1.05" x 1.45" x 5.0")
Dimensions HP 84814A:	27mm H, 37mm W, 127mm L (1.05" x 1.45" x 5.0")
Weight:	Net: 0.35 kg (0.8 lb); Shipping: 1 kg (2 lb)
Option 001:	Net: 0.8 kg (1.5 lb); Shipping: 1.5 kg (3 lb)