

## Performance Specifications

### High Accuracy Sensors

High Accuracy Sensors (1 of 2)

Parameter/ Model	Specification		
<b>Frequency Range</b>			
MA2442A/B/D	10 MHz to 18 GHz		
MA2444A/D	10 MHz to 40 GHz		
MA2445A/D	10 MHz to 50 GHz		
<b>Dynamic Range</b>	-67 dBm to +20 dBm		
<b>SWR</b>	<1.17; 10 MHz to 50 MHz (MA2442B/D only)		
	<1.90; 10 MHz to 50 MHz		
	<1.17; 50 MHz to 150 MHz		
	<1.08; 150 MHz to 2 GHz		
	<1.16; 2 GHz to 12.4 GHz		
	<1.21; 12.4 GHz to 18 GHz		
	<1.29; 18 GHz to 32 GHz		
	<1.44; 32 GHz to 40 GHz		
<1.50; 40 GHz to 50 GHz			
<b>Rise Time <sup>(a)</sup></b>	<0.004 ms		
<b>Sensor Linearity</b>	MA2445A/D Only	All others	
	-67 to +15 dBm	+15 to +20 dBm	-67 to +20 dBm
	1.8% <18 GHz	2.8% <18 GHz	1.8% <18 GHz
	2.5% <40 GHz	3.5% <40 GHz	2.5% <40 GHz
	3.5% <50 GHz	4.5% <50 GHz	
<b>RF Connector <sup>(b)</sup></b>	Type	Pin Depth (inches)	
	MA2442A/D	N (m)	-0.210/-0.207
MA2444A/D	K (m)	+0.000/-0.002	
MA2445A/D	V (m)	+0.000/-0.002	
<b>Maximum Input Power</b>	23 dBm, CW 30 dBm, 1 $\mu$ s peak, $\pm$ 20 Vdc		

## Specifications

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### High Accuracy Sensors (2 of 2)

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<b>Parameter/ Model</b>	<b>Specification</b>
<b>Temperature Accuracy <sup>(c)</sup></b>	<1.0%, <40 GHz <1.5%, <50 GHz

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a. Rise Time is defined as the time interval necessary for the power sensor (when used with ML2480A/B series power meter) to rise from 10% to 90% of the reading when the signal rises instantaneously from zero (no power) to 10 dBm at 25 °C.

b. Each power sensor incorporates a precision RF connector with a hexagon coupling nut for use with an industry standard torque wrench.

c. 5 °C to 50 °C

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