

## Performance Specifications

### Standard Diode Power Sensors

Standard Diode Power Sensors (1 of 2)

Parameter/ Model	Specification			
<b>Frequency Range</b>				
MA2472A/B/D	10 MHz to 18 GHz			
MA2473A/D	10 MHz to 32 GHz			
MA2474A/D	10 MHz to 40 GHz			
MA2475A/D	10 MHz to 50 GHz			
<b>Dynamic Range</b>	-70 dBm to +20 dBm			
<b>SWR</b>	<1.17; 10 MHz to 50 MHz (MA2472B/D only)			
	<1.90; 10 MHz to 50 MHz			
	<1.17; 50 MHz to 150 MHz			
	<1.12; 150 MHz to 2 GHz			
	<1.22; 2 GHz to 12.4 GHz			
	<1.25; 12.4 GHz to 18 GHz			
	<1.35; 18 GHz to 32 GHz			
	<1.50; 32 GHz to 40 GHz			
	<1.63; 40 GHz to 50 GHz			
<b>Rise Time <sup>(a)</sup></b>	<0.004 ms			
<b>Sensor Linearity</b>	<b>MA2475A/D Only</b>		<b>All Others</b>	
	-70 to +15 dBm	+15 to +20 dBm	-70 to +20 dBm	
	1.8% <18 GHz	4.8% <18 GHz	1.8% <18 GHz	
	2.5% <40 GHz	5.5% <40 GHz	2.5% <40 GHz	
	3.5% <50 GHz	6.5% <50 GHz		
<b>RF Connector <sup>(b)</sup></b>	<b>Type</b>	<b>Pin Depth (inches):</b>		
	MA2472A/B/D	N (m)	-0.210/-0.207	
	MA2473A/D	K (m)	+0.000/-0.002	
	MA2474A/D	K (m)	+0.000/-0.002	
	MA2475A/D	V (m)	+0.000/-0.002	

## Specifications

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### Standard Diode Power Sensors (2 of 2)

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<b>Parameter/ Model</b>	<b>Specification</b>
<b>Maximum Input Power</b>	23 dBm, CW
	30 dBm, 1 $\mu$ s peak, $\pm$ 20 Vdc
<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 to rise from 10% to 90% of the reading when the signal rises instantaneously from zero (no power) to 1 mW (0 dBm) at room temperature.
- 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