Standard Diode Power Sensors

Table B-1. Standard Diode Power Sensors (1 of 2)

Parameter/ Model	Specification		
Frequency Range			
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		
Dynamic Range	–70 dBm to +20 dBm		
SWR	<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		
Rise Time [a]	<0.004 ms		
Sensor Linearity	**MA2475A/D Only**		**All Others**
	–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	
RF Connector [b]	**Type**	**Pin Depth (inches):**	
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	

Table B-1. Standard Diode Power Sensors (2 of 2)

Parameter/ Model	Specification
Maximum Input Power	23 dBm, CW
	30 dBm, 1 μs peak, ±20 Vdc
Temperature Accuracy [c]	<1.0%, <40 GHz
	<1.5%. <50 GHz

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 ºC to 50 ºC