

## CW and Average Power Sensors

Model	Frequency Range	Dynamic Range	Overload Rating	Maximum SWR
Impedance Connector			Pulse/Continuous	Frequency SWR @ 0 dBm
<b>Wide Dynamic Range Dual Diode Sensors</b>				
<b>51075A</b> 50 ohm N (M)	500 kHz to 18 GHz	-70 to +20 dBm <sup>1</sup>	1 W for 1μs 300 mW	500 kHz - 2 GHz 2 GHz - 6 GHz 6 GHz - 18 GHz 1.15 1.20 1.40
<b>51077A</b> 50 ohm N (M)	500 kHz to 18 GHz	-60 to +30 dBm <sup>1</sup>	10 W for 1μs 3 W	500 kHz - 2 GHz 2 GHz - 6 GHz 6 GHz - 18 GHz 1.15 1.20 1.40
<b>51079A</b> 50 ohm N (M)	500 kHz to 18 GHz	-50 to +40 dBm <sup>1</sup>	100 W for 1μs 25 W	500 kHz - 2 GHz 2 GHz - 6 GHz 6 GHz - 18 GHz 1.15 1.20 1.40
<b>51071A</b> 50 ohm K (M)	10 MHz to 26.5 GHz	-70 to +20 dBm <sup>1</sup>	1 W for 1μs 300 mW	10 MHz - 2 GHz 2 GHz - 4 GHz 4 GHz - 18 GHz 18 GHz - 26.5 GHz 1.15 1.20 1.45 1.50
<b>51072A</b> 50 ohm K (M)	30 MHz to 40 GHz	-70 to +20 dBm <sup>1</sup>	1 W for 1μs 300 mW	30 MHz - 4 GHz 4 GHz - 38 GHz 38 GHz - 40 GHz 1.25 1.65 2.00
<b>Thermocouple Sensors</b>				
<b>51100(9E)</b> 50 ohm N (M)	10 MHz to 18 GHz	-20 to +20 dBm <sup>1</sup>	15 W for 1μs 300 mW	10 MHz - 30 MHz 30 MHz - 16 GHz 16 GHz - 18 GHz 1.25 1.18 1.28
<b>51200</b> 50 ohm N (M)	10 MHz to 18 GHz	0 to +37 dBm <sup>1</sup>	150 W for 1μs 10 W	10 MHz - 2 GHz 2 GHz - 12.4 GHz 12.4 GHz - 18 GHz 1.10 1.18 1.28
<b>Special Purpose Dual Diode Sensors</b>				
<b>51011A-EMC</b> 50 ohm N (M)	10 kHz to 8 GHz	-60 to +20 dBm <sup>2</sup>	1 W for 1μs 200 mW	10 kHz - 2 GHz 2 GHz - 4 GHz 4 GHz - 8 GHz 1.12 1.20 1.40
<b>51011A</b> 50 ohm N (M)	100 kHz to 12.4 GHz	-60 to +20 dBm <sup>2</sup>	1 W for 1μs 300 mW	100 kHz - 2 GHz 2 GHz - 4 GHz 4 GHz - 11 GHz 11 GHz - 12.4 GHz 1.12 1.20 1.40 1.60
<b>51013A</b> 50 ohm N (M)	100 kHz to 18 GHz	-60 to +20 dBm <sup>2</sup>	1 W for 1μs 300 mW	100 kHz - 4 GHz 4 GHz - 10 GHz 10 GHz - 18 GHz 1.30 1.50 1.70
<b>51015A</b> 50 ohm N (M)	100 kHz to 18 GHz	-50 to +30 dBm <sup>2</sup>	10 W for 1μs 2 W	100 kHz - 1 GHz 1 GHz - 2 GHz 2 GHz - 4 GHz 4 GHz - 12.4 GHz 12.4 GHz - 18 GHz 1.07 1.10 1.12 1.18 1.28
<b>Diode Average Sensor (For use with 4230, 4240, 4530, 4540, 5230)</b>				
<b>51085</b> 50 ohm N(M)	500 kHz to 18 GHz	-30 to +20 dBm <sup>1</sup>	1 W for 1μs 5W (*)	500 kHz - 4 GHz 4 - 12.4 GHz 12.4 - 18 GHz 1.15 1.20 1.25

<sup>1</sup> Models: All power meter models except 4500B

<sup>2</sup> Models: 4240, 4530, 4540

\* For 51085 Peak Power - 1kW peak, 5μs pulse width, 0.25% duty cycle.

For 51085 CW Power - 5W (+37dBm) average to 25°C ambient temperature, derated linearly to 2W (+33dBm) at 85°C.