

Average & CW Power Sensors

Model	Frequency Range	Dynamic Range ¹	Overload Rating	Maximum SWR	
Impedance Connector			Pulse/Continuous	Frequency	SWR @ 0 dBm
Wide dynamic range dual diode sensors					
51075A 50 ohm N (M)	500 kHz to 18 GHz	-70 to +20 dBm	1 W for 1µs 300 mW	500 kHz - 2 GHz 2 GHz - 6 GHz 6 GHz - 18 GHz	1.15 1.20 1.40
51077A 50 ohm N (M)	500 kHz to 18 GHz	-60 to +30 dBm	10 W for 1µs 3 W	500 kHz - 2 GHz 2 GHz - 6 GHz 6 GHz - 18 GHz	1.15 1.20 1.40
51079A 50 ohm N (M)	500 kHz to 18 GHz	-50 to +40 dBm	100 W for 1µs 25 W	500 kHz - 2 GHz 2 GHz - 6 GHz 6 GHz - 18 GHz	1.15 1.20 1.40
51071A 50 ohm K (M)	10 MHz to 26.5 GHz	-70 to +20 dBm	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
51072A 50 ohm K (M)	30 MHz to 40 GHz	-70 to +20 dBm	1 W for 1µs 300 mW	30 MHz - 4 GHz 4 GHz - 38 GHz 38 GHz - 40 GHz	1.25 1.65 2.00
Thermocouple sensors					
51100(9E) 50 ohm N (M)	10 MHz to 18 GHz	-20 to +20 dBm	15 W for 1µs 300 mW	10 MHz - 30 MHz 30 MHz - 16 GHz 16 GHz - 18 GHz	1.25 1.18 1.28
51200 50 ohm N (M)	10 MHz to 18 GHz	0 to +37 dBm	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
Special purpose dual diode sensors¹					
51011(EMC) 50 ohm N (M)	10 kHz to 8 GHz	-60 to +20 dBm	1 W for 1µs 200 mW	10 MHz - 2 GHz 2 GHz - 4 GHz 4 GHz - 8 GHz	1.12 1.20 1.40
51011(4B) 50 ohm N (M)	100 kHz to 12.4 GHz	-60 to +20 dBm	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
51013(4E) 50 ohm N (M)	100 kHz to 18 GHz	-60 to +20 dBm	1 W for 1µs 300 mW	100 kHz - 4 GHz 4 GHz - 10 GHz 10 GHz - 18 GHz	1.30 1.50 1.70
51015(5E) 50 ohm N (M)	100 kHz to 18 GHz	-50 to +30 dBm	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
51033(6E) 50 ohm N (M)	100 kHz to 18 GHz	-40 to +33 dBm	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
51078 50 ohm N (M)	100 kHz to 18 GHz	-20 to +37 dBm	100 W for 1µs 7 W	100 kHz - 4 GHz 4 GHz - 12 GHz 12 GHz - 18 GHz	1.15 1.25 1.40

Diode Average Sensor (For use with 4530, 5230, 4230, 4240, 4540)					
51085					
50 ohm	500 kHz to 18 GHz	-30 to +20 dBm	1 W for 1 μ s	500 kHz - 4 GHz	1.15
N (M)			5 W*	4 - 12.4 GHz	1.20
				12.4 - 18 GHz	1.25
Diode USB Sensor (for use with PC with USB 1.0 or higher)					
52012					
50 ohm	10 MHz to 12.4 GHz	-50dBm to +20 dBm		10MHz to 12.4 GHz	1.26
SMA (m)					
52018					
50 ohm	10 MHz to 18.5 GHz	-50dBm to +20 dBm		10MHz to 18 GHz	1.26
SMA (m)					
52012					
50 ohm	10 MHz to 26.5 GHz	-50dBm to +20 dBm		10MHz to 18 GHz	1.25
K type (m)					

1 Models 4731, 4732, 4231A, 4232A, 4300, 4531, 4532, 5231, 5232, 5731, 5732

*For 51085 Peak Power - 1kW peak, 5 μ s 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.

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