

Smart Power Sensor

PWR-8PW-RC

Typical Performance Data

Test Conditions: @ Temperature = 25°C (Unless otherwise stated).

Freq. (MHz)	Return Loss (dB)		
	0°C		
	0°C	25°C	50°C
10	-24.41	-24.45	-24.46
100	-27.14	-27.97	-28.37
200	-26.63	-27.11	-27.30
400	-26.25	-25.55	-25.23
600	-25.09	-25.25	-25.27
800	-26.30	-26.33	-26.65
1000	-29.17	-29.16	-29.94
1200	-33.63	-33.68	-34.16
1400	-44.26	-42.34	-39.56
1600	-36.22	-37.82	-38.78
1800	-33.78	-34.24	-36.17
2000	-32.83	-32.04	-32.30
2200	-26.89	-27.60	-27.11
2400	-24.37	-24.89	-24.20
2600	-21.46	-21.35	-20.93
2800	-19.50	-19.36	-19.12
3000	-19.14	-18.48	-18.27
3200	-19.29	-18.26	-18.01
3400	-19.80	-19.12	-18.80
3600	-20.90	-20.43	-20.04
3900	-24.37	-25.78	-25.52
4200	-26.81	-29.92	-32.41
4400	-29.63	-32.25	-33.87
4600	-32.12	-30.06	-29.64
4800	-35.45	-29.66	-28.68
5000	-33.78	-27.09	-25.48
5200	-28.75	-23.83	-22.21
5400	-23.60	-21.94	-21.00
5600	-20.41	-21.55	-21.06
5800	-20.48	-22.43	-22.25
6000	-21.99	-25.86	-27.53
6200	-24.94	-30.45	-35.18
6400	-29.57	-37.20	-41.32
6600	-30.23	-33.24	-31.09
6800	-30.43	-39.33	-40.18
7000	-34.87	-33.95	-36.36
7200	-41.12	-41.78	-40.64
7400	-32.15	-31.53	-29.35
7600	-33.96	-31.98	-30.24
7800	-29.88	-33.55	-34.42
8000	-26.14	-24.94	-25.06

Freq. (MHz)	Linearity (%)		
	-60 to -30 dBm	-30 to 0 dBm	0 to +20 dBm
	10	-0.92%	0.23%
100	-0.69%	-1.37%	2.57%
200	-0.23%	-2.28%	1.39%
400	-0.69%	0.00%	-1.83%
600	-0.23%	1.86%	2.80%
800	-0.46%	-1.14%	2.57%
1000	-1.37%	-0.92%	2.09%
1200	-1.60%	-1.83%	1.62%
1400	-2.95%	-0.23%	0.93%
1600	-2.73%	-0.92%	3.51%
1800	-3.39%	-1.83%	0.46%
2000	-3.84%	-2.95%	4.95%
2200	-2.50%	0.00%	1.16%
2400	-4.28%	-1.37%	2.09%
2600	-2.73%	-2.28%	0.23%
2800	-2.73%	-2.28%	-0.23%
3000	-1.37%	-2.73%	2.33%
3200	-0.46%	-1.83%	2.80%
3400	-0.69%	-3.62%	2.09%
3600	-1.14%	-2.73%	0.93%
3900	-2.73%	-1.83%	-1.37%
4200	-4.50%	0.46%	-0.69%
4400	-2.28%	-1.37%	1.39%
4600	-3.84%	-1.83%	1.39%
4800	-2.95%	-0.23%	0.46%
5000	-1.14%	1.39%	-0.23%
5200	-2.50%	0.69%	-2.28%
5400	-0.92%	1.16%	-2.73%
5600	-1.83%	1.39%	-1.60%
5800	-1.83%	3.28%	-3.39%
6000	-2.28%	1.39%	2.33%
6200	-2.50%	4.23%	-2.28%
6400	-2.28%	3.51%	-0.46%
6600	-2.50%	4.47%	-6.03%
6800	-2.05%	1.86%	0.69%
7000	-2.73%	6.91%	-1.14%
7200	-2.73%	6.41%	-0.69%
7400	-4.94%	3.28%	-4.06%
7600	-4.72%	6.17%	-3.62%
7800	-4.28%	3.99%	-2.28%
8000	-5.59%	3.75%	-2.05%

Smart Power Sensor

PWR-8PW-RC

Typical Performance Data

Test Conditions: @ Temperature = 25°C (Unless otherwise stated).

Freq. (MHz)	Uncertainty of power measurement (dBm)								
	-60 dBm	-50 dBm	-40 dBm	-30 dBm	-20 dBm	-10 dBm	0 dBm	+10 dBm	+20 dBm
10	-0.02	-0.02	0.01	0.02	0.00	0.01	0.01	0.03	-0.06
100	-0.02	0.00	0.01	0.01	0.05	0.08	0.07	0.07	-0.04
200	-0.02	-0.03	0.01	-0.01	0.09	0.10	0.09	0.08	0.03
400	0.02	0.05	0.07	0.05	0.02	0.05	0.05	-0.01	0.13
600	0.10	0.28	0.18	0.11	-0.07	0.04	0.03	-0.02	-0.09
800	0.00	-0.01	0.04	0.02	0.02	0.08	0.07	0.13	-0.04
1000	-0.05	0.00	0.00	0.01	0.02	0.04	0.05	0.08	-0.04
1200	-0.13	-0.09	-0.02	-0.06	-0.13	0.02	0.02	-0.05	-0.05
1400	-0.09	0.03	0.04	0.04	0.11	0.14	0.05	0.04	0.01
1600	-0.12	-0.02	0.00	0.00	0.02	0.02	0.04	-0.01	-0.11
1800	-0.15	-0.01	0.00	0.00	0.07	0.22	0.08	0.16	0.06
2000	-0.18	-0.02	0.01	-0.01	0.07	0.01	0.12	-0.03	-0.09
2200	-0.15	-0.05	-0.03	-0.04	-0.04	-0.02	-0.04	-0.08	-0.09
2400	-0.24	-0.07	-0.04	-0.05	0.02	0.00	0.01	-0.03	-0.08
2600	-0.11	0.04	0.04	0.01	0.17	0.15	0.11	0.14	0.10
2800	-0.10	0.00	0.02	0.02	0.18	0.15	0.12	0.11	0.13
3000	-0.03	0.05	0.04	0.03	0.17	0.16	0.15	0.06	0.05
3200	0.02	0.04	0.05	0.04	0.17	0.14	0.12	0.06	0.00
3400	-0.02	0.01	0.03	0.01	0.21	0.18	0.17	0.11	0.08
3600	-0.03	0.01	0.00	0.02	0.16	0.17	0.14	0.11	0.10
3900	-0.12	0.02	-0.02	0.00	0.09	0.11	0.08	0.02	0.14
4200	-0.09	0.09	0.11	0.11	0.15	0.17	0.09	0.09	0.12
4400	-0.05	0.03	0.08	0.05	0.17	0.17	0.11	0.12	0.05
4600	-0.14	0.02	0.04	0.03	0.14	0.13	0.11	0.07	0.05
4800	-0.03	0.08	0.11	0.10	0.14	0.12	0.11	0.05	0.09
5000	0.06	0.08	0.11	0.11	0.11	0.09	0.05	0.06	0.06
5200	-0.10	-0.01	0.02	0.01	0.04	0.03	-0.02	-0.01	0.08
5400	0.10	0.14	0.17	0.14	0.12	0.12	0.09	0.13	0.21
5600	-0.01	0.06	0.08	0.07	0.06	0.05	0.01	-0.03	0.08
5800	0.01	0.08	0.10	0.09	0.01	0.01	-0.05	-0.10	0.10
6000	-0.01	0.06	0.10	0.09	0.10	0.06	0.03	0.02	-0.07
6200	-0.01	0.09	0.12	0.10	-0.01	-0.04	-0.08	-0.04	0.02
6400	0.07	0.16	0.18	0.17	0.04	0.04	0.02	-0.06	0.04
6600	0.06	0.14	0.18	0.17	0.02	0.01	-0.02	-0.07	0.25
6800	-0.01	0.06	0.09	0.08	0.00	0.03	0.00	-0.05	-0.03
7000	0.14	0.21	0.25	0.26	0.05	0.02	-0.03	-0.05	0.02
7200	0.09	0.16	0.19	0.21	0.02	0.01	-0.06	-0.09	-0.03
7400	-0.08	0.12	0.14	0.14	0.03	0.05	0.00	0.11	0.18
7600	0.02	0.18	0.21	0.23	0.06	0.04	-0.03	0.00	0.13
7800	-0.02	0.10	0.15	0.17	0.07	0.05	0.00	0.02	0.10
8000	-0.11	0.12	0.17	0.14	0.03	0.02	-0.02	-0.01	0.07

NOTES:

- A. Performance and quality attributes and conditions not expressly stated in this specification document are intended to be excluded and do not form a part of this specification document.
- B. Electrical specifications and performance data contained in this specification document are based on Mini-Circuits' applicable established test performance criteria and measurement instructions.
- C. The parts covered by this specification document are subject to Mini-Circuits standard limited warranty and terms and conditions (collectively, "Standard Terms"); Purchasers of this part are entitled to the rights and benefits contained therein. For a full statement of the Standard Terms and the exclusive rights and remedies thereunder, please visit Mini-Circuits' website at <https://www.minicircuits.com/terms/viewterm.html>

