

USB/Ethernet Power Sensor

PWR-8P-RC

Typical Performance Data

FREQ. (MHz)	VSWR (:1)		
	0°C	+25°C	+50°C
1	5.99	5.97	5.97
5	1.40	1.40	1.40
10	1.13	1.13	1.13
20	1.09	1.09	1.09
50	1.08	1.08	1.08
100	1.09	1.09	1.08
200	1.09	1.09	1.09
300	1.09	1.10	1.10
400	1.10	1.11	1.11
500	1.12	1.11	1.11
800	1.10	1.11	1.10
1000	1.08	1.08	1.08
1200	1.06	1.06	1.06
1400	1.03	1.03	1.03
1600	1.01	1.01	1.00
1800	1.02	1.02	1.02
2000	1.06	1.05	1.06
2200	1.09	1.10	1.09
2400	1.13	1.14	1.13
2600	1.18	1.19	1.19
2800	1.22	1.23	1.23
3000	1.23	1.24	1.25
3500	1.19	1.20	1.20
3750	1.16	1.16	1.17
4000	1.15	1.14	1.13
4250	1.15	1.13	1.12
4500	1.14	1.13	1.12
4750	1.13	1.14	1.14
5000	1.14	1.17	1.18
5250	1.18	1.20	1.23
5500	1.20	1.20	1.22
5750	1.19	1.18	1.15
6000	1.18	1.14	1.12
6250	1.13	1.10	1.08
6500	1.10	1.10	1.08
6750	1.12	1.12	1.11
7000	1.14	1.12	1.13
7250	1.12	1.10	1.09
7500	1.09	1.07	1.07
7750	1.15	1.13	1.13
8000	1.25	1.24	1.23
8250	1.34	1.34	1.33
8500	1.39	1.41	1.41

FREQ (MHz)	LINEARITY @ +25°C (%)		
	@ -60 to -30 dBm	@ -30 to 0 dBm	@ 0 to +20 dBm
10	1.16	-0.92	0.93
100	0.00	-0.92	-0.46
375	1.39	-1.60	3.75
625	1.39	-1.14	3.04
1000	0.69	-2.28	1.62
1125	0.93	-4.06	-1.60
1375	0.00	-2.95	-0.92
1625	-0.69	-1.60	-0.69
2000	0.23	-2.05	1.16
2125	-0.92	-1.83	2.09
2375	0.00	-2.28	-4.06
2625	-1.83	-1.60	3.04
2875	3.75	-2.73	-2.05
3125	-0.46	-1.37	4.95
3375	0.46	-1.37	-0.23
3625	0.00	-1.14	-0.23
4000	-1.37	-1.83	1.86
4125	-1.14	-1.60	1.86
4375	-3.39	-2.95	2.09
4625	-1.83	-4.06	4.71
4875	-0.23	-3.84	2.57
5125	0.00	-2.05	0.23
5375	-0.46	-1.14	0.00
5625	-1.83	-2.28	2.09
6000	-1.14	-1.83	-0.69
6125	-0.69	-3.17	1.39
6375	-1.14	-2.73	3.75
6625	-2.50	-2.05	2.80
6875	-2.73	-2.73	1.16
7125	-4.06	-2.50	0.00
7375	-4.94	-2.50	-0.92
7625	-5.16	-2.73	0.46
8000	-1.37	-0.92	-1.14

Notes

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- B. Electrical specifications and performance data contained in this specification document are based on Mini-Circuit's 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 www.minicircuits.com/MCLStore/terms.jsp



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PWR-8P-RC

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FREQ. (MHz)	UNCERTAINTY OF POWER MEASUREMENT						
	@ 25° C						
	(dBm)						
	@-60dBm	@-54dBm	@-50dBm	@-44dBm	@-40dBm	@-30dBm	@-21dBm
10	0.05	0.06	0.05	0.05	0.03	0.00	0.03
100	0.00	0.01	0.00	0.01	0.01	0.00	0.03
375	0.06	0.08	0.07	0.07	0.06	0.00	0.02
625	0.07	0.09	0.09	0.10	0.07	0.01	0.03
1000	0.02	0.04	0.04	0.05	0.05	-0.02	-0.01
1125	-0.05	-0.05	-0.06	-0.03	-0.03	-0.08	-0.07
1375	-0.04	0.09	0.18	0.12	0.04	-0.03	-0.03
1625	-0.04	0.01	0.01	0.02	0.01	-0.01	-0.03
2000	-0.02	0.04	0.05	0.05	0.02	-0.02	-0.01
2125	-0.14	-0.07	-0.08	-0.06	-0.16	-0.11	-0.09
2375	-0.15	-0.09	-0.08	-0.08	-0.15	-0.14	-0.12
2625	-0.10	-0.06	-0.06	-0.05	-0.05	-0.01	0.00
2875	0.00	0.03	0.02	0.01	-0.12	-0.15	-0.13
3125	0.02	0.04	0.04	0.03	-0.01	0.04	0.05
3375	-0.01	0.03	0.03	0.01	-0.07	-0.03	-0.04
3625	-0.03	0.02	0.04	0.05	-0.05	-0.03	-0.03
4000	-0.16	-0.06	-0.04	-0.04	-0.16	-0.09	-0.07
4125	-0.19	-0.07	-0.04	-0.03	-0.16	-0.15	-0.11
4375	-0.15	-0.05	-0.03	-0.01	-0.07	-0.01	0.00
4625	-0.09	0.01	0.02	0.05	-0.02	0.00	0.00
4875	-0.01	0.04	0.05	0.05	-0.01	0.00	0.00
5125	-0.03	0.03	0.04	0.03	0.01	-0.02	-0.02
5375	-0.02	0.03	0.04	0.04	0.01	0.00	0.05
5625	-0.12	-0.05	-0.05	-0.05	-0.11	-0.05	0.01
6000	-0.10	-0.04	-0.04	-0.04	-0.04	-0.05	-0.02
6125	-0.12	-0.05	-0.05	-0.04	-0.04	-0.07	-0.04
6375	-0.09	-0.02	-0.01	0.00	0.00	-0.04	0.00
6625	-0.13	-0.06	-0.05	-0.06	-0.03	-0.01	0.02
6875	-0.15	-0.08	-0.08	-0.08	-0.11	-0.03	-0.05
7125	-0.20	-0.13	-0.10	-0.11	-0.16	-0.02	-0.03
7375	-0.25	-0.14	-0.13	-0.13	-0.13	-0.03	-0.04
7625	-0.27	-0.12	-0.10	-0.09	-0.10	-0.05	-0.04
8000	-0.15	-0.15	-0.11	-0.10	-0.11	-0.07	-0.08

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Typical Performance Data

FREQ. (MHz)	UNCERTAINTY OF POWER MEASUREMENT					
	@ 25°C					
	(dBm)					
	@-10dBm	@0dBm	@+4dBm	@+10dBm	@+15dBm	@+20dBm
10	0.09	0.04	0.04	0.06	0.04	0.00
100	0.11	0.05	0.05	0.11	0.08	0.06
375	0.12	0.06	0.05	0.00	-0.06	-0.09
625	0.13	0.06	0.05	0.07	0.11	-0.07
1000	0.10	0.08	0.07	0.03	0.05	0.01
1125	0.06	0.09	0.08	0.03	0.12	0.17
1375	0.14	0.09	0.05	0.03	0.01	0.13
1625	0.00	0.07	0.06	0.04	0.09	0.09
2000	-0.01	0.07	0.06	0.05	0.08	0.02
2125	-0.10	-0.02	-0.02	-0.01	0.00	-0.11
2375	-0.09	-0.04	-0.04	-0.04	0.10	0.14
2625	0.03	0.05	0.07	0.05	0.00	-0.08
2875	-0.04	-0.05	-0.04	-0.02	0.01	0.05
3125	0.14	0.10	0.11	0.14	0.04	-0.10
3375	0.08	0.03	0.04	0.01	0.12	0.05
3625	0.04	0.02	0.04	0.03	0.07	0.03
4000	-0.04	-0.03	0.03	0.03	-0.08	-0.09
4125	-0.08	-0.07	-0.02	-0.02	-0.06	-0.15
4375	0.03	0.11	0.12	0.13	0.07	0.02
4625	0.02	0.17	0.17	0.14	0.10	-0.03
4875	0.03	0.18	0.13	0.13	0.13	0.06
5125	0.02	0.07	0.01	0.06	0.06	0.06
5375	0.04	0.05	0.05	0.10	0.06	0.05
5625	0.01	0.05	0.05	0.06	0.05	-0.03
6000	0.02	0.03	0.01	0.02	-0.01	0.06
6125	0.00	0.06	0.07	0.06	-0.02	0.00
6375	0.02	0.08	0.03	0.07	-0.06	-0.08
6625	0.06	0.08	0.05	0.08	-0.03	-0.03
6875	-0.01	0.09	0.09	0.11	0.02	0.04
7125	0.01	0.09	0.07	0.12	0.06	0.09
7375	0.00	0.08	0.12	0.23	0.11	0.13
7625	0.00	0.08	0.11	0.14	0.05	0.06
8000	-0.06	-0.04	0.11	0.08	-0.02	0.00

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