

# RMS Power Sensor

**PWR-9RMS-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
50	0.12	0.08	0.04	0.15	0.03	0.01	0.02	0.02	-0.07
250	0.14	0.06	0.05	0.18	0.03	0.05	0.03	0.03	-0.08
500	0.12	0.10	0.06	0.16	0.01	0.04	0.02	0.02	-0.09
750	0.14	0.12	0.08	0.17	0.01	0.02	0.01	0.03	-0.10
1000	0.10	0.09	0.07	0.16	0.02	0.02	0.00	-0.01	-0.09
1250	0.14	0.09	0.06	0.14	0.00	0.02	0.03	0.02	-0.10
1500	0.15	0.09	0.05	0.14	0.01	0.01	0.02	-0.01	-0.11
1750	0.05	0.09	0.04	0.15	0.01	0.03	0.03	0.04	-0.06
2000	0.06	0.04	0.01	0.12	0.00	0.06	0.07	0.01	-0.13
2250	0.09	0.04	0.01	0.11	-0.01	0.06	0.05	0.04	-0.07
2500	0.09	0.05	0.01	0.11	0.00	0.06	0.03	0.00	-0.11
2750	0.05	0.04	0.01	0.12	0.00	0.06	0.06	0.04	-0.05
3000	0.05	0.03	0.01	0.11	0.01	0.07	0.07	0.06	-0.05
3250	0.10	0.05	0.00	0.12	0.01	0.05	0.05	0.04	-0.07
3500	0.09	0.05	0.00	0.12	0.01	0.07	0.08	0.10	0.00
3750	0.06	0.03	-0.01	0.10	0.00	0.05	0.03	0.00	-0.13
4000	0.04	0.05	0.03	0.12	-0.02	0.05	0.03	-0.01	-0.13
4250	-0.04	0.03	-0.04	0.09	-0.03	0.03	0.03	0.01	-0.11
4500	0.08	0.01	0.00	0.10	-0.03	0.03	0.04	0.03	-0.07
4750	0.09	0.03	-0.02	0.06	-0.04	0.01	0.01	0.01	-0.12
5000	0.04	0.03	-0.01	0.06	-0.05	0.01	0.02	0.00	-0.12
5250	0.01	0.03	-0.01	0.08	-0.03	0.02	0.00	-0.02	-0.18
5500	0.02	0.01	-0.03	0.08	-0.02	0.02	0.03	0.04	-0.03
5750	0.02	-0.03	-0.07	0.07	-0.03	0.01	0.00	0.03	-0.09
6000	-0.08	-0.09	-0.10	0.05	-0.03	0.02	0.03	0.03	-0.10
6250	-0.04	-0.04	-0.09	0.06	0.00	0.04	0.04	0.06	-0.06
6500	0.10	-0.02	-0.09	0.04	-0.04	0.02	0.01	0.03	-0.10
6750	0.01	-0.01	-0.09	0.05	-0.04	0.02	0.05	0.05	-0.09
7000	-0.03	-0.01	-0.06	0.01	-0.04	0.00	0.00	0.01	-0.09
7250	0.01	-0.01	-0.09	-0.01	-0.07	-0.03	-0.05	-0.06	-0.16
7500	-0.01	-0.07	-0.09	0.00	-0.06	-0.03	0.00	0.02	-0.07
7750	-0.05	-0.09	-0.13	0.01	-0.03	-0.02	-0.01	-0.01	-0.15
8000	-0.05	-0.10	-0.12	-0.01	-0.04	-0.01	-0.01	0.02	-0.14
8250	0.04	-0.11	-0.13	0.00	-0.05	-0.01	-0.07	-0.06	-0.12
8500	-0.12	-0.17	-0.21	0.01	-0.05	-0.02	-0.04	-0.06	-0.21
8750	-0.02	-0.14	-0.19	-0.01	-0.05	-0.02	-0.01	0.00	-0.06
9000	-0.11	-0.12	-0.19	-0.01	-0.02	-0.01	-0.03	-0.04	-0.08
9250	-0.07	-0.11	-0.19	0.00	0.00	0.00	0.00	0.02	-0.04
9500	-0.05	-0.04	-0.12	0.03	0.00	0.01	-0.02	-0.01	-0.03
9750	0.08	0.00	-0.10	0.04	0.02	0.05	0.06	0.06	-0.01
10000	0.13	0.10	0.00	0.06	0.04	0.07	0.08	0.06	0.02

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## Typical Performance Data

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

Freq. (MHz)	Linearity (%)		
	-55 to -30 dBm	-30 to -5 dBm	-5 to 20 dBm
50	-2.05%	2.33%	3.51%
250	-2.23%	2.86%	2.78%
500	-2.95%	3.28%	2.80%
750	-2.10%	3.64%	2.98%
1000	-1.60%	3.04%	2.57%
1250	-1.37%	1.86%	3.99%
1500	-1.83%	1.86%	3.51%
1750	-0.46%	1.16%	2.80%
2000	-3.84%	1.39%	4.71%
2250	-2.73%	1.16%	2.80%
2500	-1.14%	1.39%	3.51%
2750	-1.37%	0.93%	2.57%
3000	-1.83%	0.46%	3.04%
3250	-2.50%	1.39%	2.80%
3500	-3.39%	-0.23%	3.99%
3750	-2.73%	1.16%	5.44%
4000	-2.73%	1.86%	4.95%
4250	-3.17%	0.00%	4.47%
4500	-3.62%	0.46%	3.28%
4750	-0.46%	0.00%	3.75%
5000	-1.14%	0.00%	3.99%
5250	-2.28%	0.93%	5.20%
5500	-3.39%	0.23%	2.09%
5750	-2.73%	0.69%	2.80%
6000	-4.06%	1.16%	3.99%
6250	-3.84%	-0.46%	3.28%
6500	-2.50%	-0.23%	3.51%
6750	-5.16%	-0.69%	3.75%
7000	-1.60%	0.00%	2.57%
7250	-0.92%	-0.69%	4.23%
7500	-2.95%	-0.69%	3.04%
7750	-4.72%	-0.92%	4.23%
8000	-2.73%	-0.23%	3.51%
8250	-2.28%	-0.69%	3.28%
8500	-5.81%	0.69%	4.23%
8750	-3.39%	-0.46%	2.80%
9000	-4.06%	1.16%	1.39%
9250	-2.95%	0.00%	1.39%
9500	-3.39%	0.23%	0.93%
9750	-2.05%	-1.83%	2.57%
10000	-2.05%	-1.14%	1.86%

Freq. (MHz)	R. Loss (dB)
50	-56.39
250	-52.11
500	-43.89
750	-39.33
1000	-37.09
1250	-35.05
1500	-33.08
1750	-31.35
2000	-30.01
2250	-29.06
2500	-28.46
2750	-28.11
3000	-28.06
3250	-28.53
3500	-29.24
3750	-29.91
4000	-30.38
4250	-30.56
4500	-30.00
4750	-29.05
5000	-28.03
5250	-27.27
5500	-26.73
5750	-25.70
6000	-25.71
6250	-25.94
6500	-26.30
6750	-27.23
7000	-28.59
7250	-30.35
7500	-32.57
7750	-36.14
8000	-38.78
8250	-32.54
8500	-27.42
8750	-24.99
9000	-23.48
9250	-22.65
9500	-22.69
9750	-22.90
10000	-21.79