

# Integrated Freq. & Power Meter

# FCPM-6000RC

## Typical Performance Data

FREQ. (MHz)	VSWR (:1)		
	0°C	+25°C	+50°C
1	1.04	1.04	1.04
10	1.03	1.03	1.03
20	1.03	1.03	1.03
50	1.03	1.03	1.03
100	1.03	1.03	1.03
200	1.02	1.03	1.04
400	1.03	1.03	1.03
600	1.03	1.03	1.03
800	1.02	1.03	1.02
1000	1.02	1.03	1.02
1200	1.03	1.02	1.02
1400	1.03	1.02	1.02
1600	1.03	1.03	1.02
1800	1.03	1.03	1.03
2000	1.04	1.03	1.03
2200	1.04	1.03	1.04
2400	1.04	1.03	1.04
2600	1.04	1.03	1.03
2800	1.03	1.03	1.02
3000	1.02	1.02	1.01
3200	1.02	1.02	1.02
3400	1.03	1.03	1.03
3600	1.05	1.05	1.06
3800	1.06	1.07	1.08
4000	1.07	1.08	1.10
4200	1.07	1.09	1.11
4400	1.09	1.09	1.11
4600	1.09	1.09	1.11
4800	1.09	1.08	1.09
5000	1.07	1.06	1.06
5200	1.05	1.03	1.03
5400	1.02	1.00	1.02
5600	1.02	1.03	1.06
5800	1.05	1.07	1.11
6000	1.08	1.10	1.14
6200	1.12	1.13	1.16
6400	1.16	1.16	1.17
6600	1.18	1.18	1.18
6800	1.20	1.21	1.22
7000	1.25	1.27	1.29
7500	1.34	1.34	1.35
8000	1.44	1.41	1.34

LINEARITY @ -30 to 0 dBm	
FREQ (MHz)	- (%)
1	1.83
2	2.50
5	2.05
10	2.28
50	0.92
100	2.28
300	1.14
500	2.95
1000	2.05
1400	2.05
2000	0.23
3000	0.69
4000	1.37
5000	-0.69
6000	3.84
6500	-0.23

LINEARITY @ 0 to +20 dBm	
FREQ (MHz)	- (%)
1	4.28
2	3.62
5	3.62
10	2.50
50	5.16
100	3.17
300	2.95
500	3.17
1000	3.62
1400	3.84
2000	3.39
3000	3.39
4000	2.05
5000	0.00
6000	-0.46
6500	-0.23

**Notes**

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- 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](http://www.minicircuits.com/MCLStore/terms.jsp)



## Typical Performance Data

FREQ. (MHz)	UNCERTAINTY OF POWER MEASUREMENT @ 25°C (dBm)						
	-30 dBm	-10 dBm	0 dBm	+5 dBm	+10 dBm	+15 dBm	+20 dBm
1	-0.02	-0.07	-0.09	-0.16	-0.18	-0.10	-0.27
2	0.00	-0.06	-0.11	-0.14	-0.16	-0.11	-0.26
5	0.00	-0.05	-0.09	-0.15	-0.17	-0.08	-0.25
10	0.02	-0.03	-0.08	-0.13	-0.15	-0.06	-0.19
17	0.06	-0.02	-0.04	-0.09	-0.11	0.00	-0.11
40	0.08	-0.03	-0.04	-0.04	-0.11	-0.08	-0.26
50	0.01	-0.02	-0.03	-0.05	-0.12	-0.10	-0.26
61	0.06	0.00	-0.03	-0.05	-0.13	-0.08	-0.24
73	0.01	0.00	-0.03	-0.04	-0.11	-0.07	-0.21
85	0.08	-0.01	-0.03	-0.06	-0.13	-0.05	-0.17
100	0.07	0.00	-0.03	-0.04	-0.12	-0.03	-0.17
152	0.06	0.00	-0.01	0.00	-0.04	-0.05	-0.15
190	0.05	-0.01	0.00	-0.01	-0.02	0.00	-0.11
300	0.07	0.00	0.02	0.03	-0.02	0.03	-0.11
403	0.06	-0.02	-0.04	-0.04	-0.06	-0.05	-0.14
500	0.07	-0.01	-0.06	-0.10	-0.14	-0.11	-0.20
619	0.11	-0.01	-0.07	-0.09	-0.15	-0.10	-0.20
716	0.11	-0.01	-0.08	-0.10	-0.14	-0.12	-0.22
810	0.14	0.00	-0.07	-0.09	-0.12	-0.16	-0.19
913	0.04	-0.03	-0.04	-0.08	-0.12	-0.14	-0.20
1000	0.04	-0.01	-0.05	-0.07	-0.10	-0.13	-0.21
1209	0.05	-0.01	-0.03	-0.05	-0.09	-0.13	-0.23
1400	0.01	-0.07	-0.08	-0.08	-0.17	-0.11	-0.25
1621	0.00	-0.07	-0.06	-0.08	-0.12	-0.13	-0.32
2000	0.01	-0.02	0.00	0.01	0.00	-0.01	-0.15
2217	0.04	-0.04	0.03	0.04	0.05	0.02	-0.09
2470	0.07	-0.01	0.03	0.02	0.03	0.00	-0.09
2722	0.04	-0.03	0.04	0.01	0.00	-0.02	-0.13
3000	0.04	0.01	0.01	0.02	0.02	-0.02	-0.14
3226	0.05	0.03	0.03	0.04	0.05	0.04	-0.05
3478	0.06	0.03	0.02	0.01	0.03	0.03	-0.06
3730	0.02	-0.04	0.00	-0.03	-0.02	-0.03	-0.10
4000	0.09	0.03	0.03	0.01	0.03	0.03	-0.06
4235	0.05	0.05	0.03	0.01	0.01	0.05	-0.03
4487	0.05	0.02	0.03	0.05	0.03	0.06	-0.01
4739	0.02	-0.02	0.01	-0.01	-0.03	0.02	-0.05
5000	-0.03	-0.03	0.00	-0.04	-0.02	0.06	0.00
5243	0.07	0.00	0.00	0.02	0.03	0.12	0.06
5496	0.01	0.03	0.00	0.04	0.05	0.10	0.05
5700	0.11	0.06	0.01	0.01	0.03	0.10	0.07
5748	0.13	0.07	0.01	0.00	0.03	0.10	0.07
6000	0.16	0.08	-0.01	0.01	-0.01	0.06	0.01
6110	0.13	0.05	0.00	0.00	0.01	0.07	0.01
6345	0.01	0.01	-0.01	0.00	-0.02	0.08	0.04
6500	-0.04	0.00	-0.03	-0.05	-0.04	0.00	-0.02

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# FCPM-6000RC

## Typical Performance Data

FREQ. (MHz)	UNCERTAINTY OF FREQUENCY MEASUREMENT @ 25°C (Hz)						
	-30 dBm	-10 dBm	0 dBm	+5 dBm	+10 dBm	+15 dBm	+20 dBm
1	-1.00	0.00	0.00	0.00	-1.00	0.00	0.00
2	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5	0.00	1.00	0.00	0.00	1.00	1.00	1.00
10	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00	4.00
20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
60	10.00	0.00	0.00	0.00	0.00	0.00	0.00
80	0.00	0.00	10.00	0.00	0.00	0.00	0.00
100	0.00	0.00	0.00	0.00	0.00	0.00	0.00
120	10.00	0.00	0.00	10.00	0.00	10.00	0.00
140	-20.00	-20.00	-20.00	-20.00	-20.00	-20.00	0.00
160	40.00	-10.00	-10.00	-10.00	-10.00	-10.00	0.00
190	200.00	0.00	0.00	0.00	0.00	0.00	0.00
300	0.00	-100.00	0.00	0.00	0.00	0.00	0.00
400	0.00	0.00	0.00	0.00	0.00	0.00	0.00
500	0.00	0.00	100.00	0.00	0.00	0.00	0.00
600	0.00	0.00	0.00	0.00	0.00	100.00	0.00
700	0.00	0.00	0.00	0.00	0.00	0.00	0.00
800	0.00	0.00	0.00	0.00	0.00	0.00	0.00
900	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1000	100.00	100.00	100.00	100.00	100.00	0.00	100.00
1200	0.00	100.00	0.00	100.00	0.00	0.00	0.00
1400	0.00	0.00	-100.00	0.00	-100.00	0.00	-100.00
1600	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2000	-200.00	-200.00	-200.00	-200.00	-200.00	-200.00	-200.00
2220	-200.00	-200.00	-200.00	-200.00	-200.00	-200.00	-200.00
2460	-200.00	0.00	0.00	0.00	-200.00	-200.00	-200.00
2720	-200.00	0.00	0.00	0.00	-200.00	0.00	-200.00
3000	-200.00	-200.00	200.00	-200.00	-200.00	200.00	-200.00
3220	-200.00	-200.00	-200.00	-1000.00	-200.00	0.00	0.00
3480	-400.00	0.00	-400.00	0.00	-400.00	-400.00	-400.00
3740	-400.00	0.00	0.00	0.00	-400.00	0.00	-400.00
4000	-400.00	-400.00	-400.00	-400.00	-400.00	-400.00	-400.00
4240	-400.00	0.00	-400.00	0.00	-400.00	0.00	0.00
4480	0.00	-400.00	-400.00	-400.00	-400.00	-400.00	-400.00
4740	-400.00	-400.00	-400.00	-400.00	-400.00	-400.00	-400.00
5000	-400.00	-400.00	-400.00	-400.00	-400.00	-400.00	0.00
5240	400.00	-400.00	-400.00	-400.00	-400.00	-400.00	-400.00
5500	-400.00	-400.00	-400.00	-400.00	-400.00	-400.00	-400.00
5700	400.00	-400.00	400.00	400.00	-400.00	-400.00	-400.00
5740	0.00	-400.00	-400.00	-400.00	-400.00	-400.00	0.00
6000	0.00	-1.00	-1.00	0.00	-1.00	-1.00	0.00

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