

Programmable Attenuator

RC4DAT-6G-95

Typical Performance Data @ +25°C

FREQUENCY (MHz)	Attenuation relative to Insertion Loss (dB)								
	0.25 dB	10 dB	15 dB	30 dB	45 dB	60 dB	75 dB	90 dB	95 dB
1	0.27	9.95	15.05	29.56	44.50	59.43	74.36	88.54	93.43
5	0.27	9.94	15.05	29.56	44.50	59.42	74.34	88.43	93.48
10	0.27	9.94	15.05	29.56	44.49	59.41	74.35	88.73	93.75
20	0.27	9.94	15.04	29.55	44.49	59.42	74.31	88.82	94.02
50	0.27	9.94	15.04	29.55	44.48	59.41	74.33	88.98	93.81
100	0.27	9.94	15.04	29.55	44.48	59.41	74.35	89.01	94.11
200	0.27	9.91	15.02	29.52	44.45	59.38	74.31	88.91	93.87
500	0.26	9.78	14.87	29.37	44.31	59.24	74.14	88.80	93.79
750	0.26	9.68	14.77	29.27	44.22	59.15	74.09	88.67	93.92
1000	0.26	9.65	14.73	29.22	44.18	59.12	74.03	88.79	93.79
1500	0.26	9.69	14.78	29.27	44.25	59.19	74.14	88.78	93.88
2000	0.26	9.77	14.88	29.38	44.37	59.34	74.31	89.00	94.27
2500	0.27	9.93	15.05	29.54	44.53	59.53	74.48	89.30	94.51
3000	0.28	9.81	14.91	29.39	44.41	59.46	74.50	89.53	94.59
3500	0.28	9.63	14.76	29.32	44.42	59.58	74.60	89.81	94.68
4000	0.29	9.75	14.92	29.61	44.83	60.09	75.17	90.17	95.69
4500	0.29	9.83	15.02	29.87	45.19	60.55	75.73	90.82	96.24
5000	0.30	10.00	15.19	30.21	45.55	60.98	76.17	91.41	96.68
5500	0.30	10.22	15.39	30.42	45.69	61.16	76.33	91.58	97.39
6000	0.33	10.22	15.38	30.29	45.42	60.98	76.03	90.84	96.62

FREQUENCY (MHz)	Attenuation accuracy relative to nominal attenuation setting (dB)								
	0.25 dB	10 dB	15 dB	30 dB	45 dB	60 dB	75 dB	90 dB	95 dB
1	-0.02	0.05	-0.05	0.44	0.51	0.57	0.64	1.46	1.57
5	-0.02	0.06	-0.05	0.44	0.50	0.58	0.66	1.57	1.52
10	-0.02	0.06	-0.05	0.44	0.51	0.59	0.65	1.27	1.25
20	-0.02	0.06	-0.04	0.45	0.51	0.58	0.69	1.18	0.98
50	-0.02	0.06	-0.04	0.45	0.52	0.59	0.67	1.02	1.19
100	-0.02	0.06	-0.04	0.45	0.52	0.59	0.65	0.99	0.89
200	-0.02	0.09	-0.02	0.48	0.55	0.62	0.69	1.09	1.13
500	-0.01	0.22	0.13	0.63	0.69	0.76	0.86	1.20	1.21
750	-0.01	0.32	0.23	0.73	0.78	0.85	0.91	1.33	1.08
1000	-0.01	0.35	0.27	0.78	0.82	0.88	0.97	1.21	1.21
1500	-0.01	0.31	0.22	0.73	0.76	0.81	0.86	1.22	1.12
2000	-0.01	0.23	0.12	0.62	0.63	0.66	0.69	1.00	0.74
2500	-0.01	0.07	-0.05	0.46	0.47	0.47	0.52	0.70	0.49
3000	-0.03	0.19	0.09	0.61	0.59	0.54	0.50	0.47	0.41
3500	-0.03	0.37	0.24	0.68	0.58	0.42	0.40	0.19	0.32
4000	-0.04	0.25	0.08	0.39	0.17	-0.09	-0.17	-0.17	-0.69
4500	-0.04	0.17	-0.02	0.14	-0.19	-0.55	-0.73	-0.82	-1.24
5000	-0.05	0.01	-0.19	-0.20	-0.55	-0.98	-1.17	-1.41	-1.68
5500	-0.05	-0.22	-0.39	-0.42	-0.69	-1.16	-1.33	-1.57	-2.39
6000	-0.08	-0.22	-0.38	-0.29	-0.42	-0.98	-1.03	-0.84	-1.62

Notes

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- C. The parts covered by this specification document are subject to Mini-Circuit's 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-Circuit's website at www.minicircuits.com/MC/Store/terms.jsp



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Typical Performance Data @ +25°C

FREQUENCY (MHz)	Input VSWR (:1)								
	0.25 dB	10 dB	15 dB	30 dB	45 dB	60 dB	75 dB	90 dB	95 dB
100	1.28	1.37	1.39	1.50	1.54	1.57	1.55	1.55	1.52
200	1.19	1.30	1.33	1.44	1.46	1.49	1.48	1.48	1.44
500	1.16	1.28	1.30	1.42	1.44	1.46	1.45	1.45	1.42
750	1.15	1.27	1.30	1.41	1.43	1.46	1.45	1.45	1.41
1000	1.15	1.27	1.29	1.41	1.43	1.46	1.44	1.44	1.41
1500	1.15	1.27	1.29	1.40	1.43	1.46	1.45	1.45	1.42
2000	1.21	1.30	1.30	1.42	1.46	1.50	1.49	1.49	1.45
2500	1.27	1.33	1.31	1.44	1.48	1.53	1.52	1.52	1.49
3000	1.28	1.35	1.33	1.47	1.50	1.55	1.54	1.54	1.51
3500	1.23	1.35	1.36	1.48	1.51	1.55	1.54	1.54	1.50
4000	1.27	1.35	1.37	1.47	1.49	1.51	1.50	1.50	1.46
4500	1.31	1.33	1.34	1.44	1.46	1.46	1.45	1.45	1.41
5000	1.27	1.29	1.29	1.39	1.41	1.41	1.40	1.40	1.36
5500	1.21	1.24	1.23	1.34	1.37	1.38	1.37	1.37	1.33
6000	1.21	1.22	1.20	1.32	1.36	1.37	1.36	1.36	1.32

FREQUENCY (MHz)	Output VSWR (:1)								
	0.25 dB	10 dB	15 dB	30 dB	45 dB	60 dB	75 dB	90 dB	95 dB
100	1.44	1.37	1.36	1.33	1.34	1.32	1.27	1.25	1.25
200	1.40	1.33	1.32	1.28	1.28	1.25	1.17	1.15	1.15
500	1.38	1.31	1.30	1.26	1.25	1.23	1.14	1.11	1.11
750	1.38	1.31	1.30	1.26	1.25	1.22	1.14	1.11	1.11
1000	1.38	1.31	1.30	1.26	1.25	1.23	1.14	1.11	1.11
1500	1.27	1.25	1.25	1.23	1.23	1.20	1.14	1.12	1.12
2000	1.14	1.17	1.17	1.16	1.17	1.16	1.13	1.12	1.12
2500	1.08	1.10	1.11	1.11	1.11	1.11	1.11	1.11	1.11
3000	1.06	1.07	1.07	1.06	1.07	1.06	1.09	1.11	1.11
3500	1.08	1.07	1.07	1.05	1.05	1.04	1.07	1.10	1.10
4000	1.13	1.10	1.09	1.06	1.06	1.04	1.06	1.10	1.10
4500	1.14	1.12	1.11	1.08	1.07	1.05	1.06	1.10	1.10
5000	1.11	1.11	1.11	1.08	1.07	1.05	1.07	1.11	1.11
5500	1.07	1.09	1.10	1.07	1.07	1.04	1.09	1.14	1.14
6000	1.04	1.07	1.08	1.05	1.06	1.02	1.12	1.18	1.18

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Typical Performance Data @ +25°C

FREQUENCY (MHz)	IP3 (dBm)	Insertion Loss @P _{IN} =0 dBm (dB)	Insertion Loss @P _{IN} =+20 dBm (dB)
1	41.45	2.68	2.66
5	51.50	2.94	2.95
10	57.44	3.02	3.05
50	54.26	3.24	3.21
100	54.93	3.60	3.56
200	53.96	3.76	3.65
300	55.64	3.87	3.80
400	59.05	3.79	3.73
500	58.93	4.13	4.04
600	59.15	4.21	4.12
700	54.95	4.22	4.16
800	57.59	4.36	4.29
900	55.78	4.49	4.41
1000	56.87	4.65	4.59
1500	59.74	5.11	5.02
2000	58.18	5.57	5.50
2500	54.56	6.00	5.90
3000	52.67	6.51	6.45
3500	53.45	6.90	6.84
4000	54.26	7.41	7.39
4500	52.36	7.53	7.53
5000	48.48	8.11	8.07
5500	44.94	8.63	8.59
6000	48.24	9.21	9.18

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