

# Programmable Attenuator

# RC4DAT-8G-95

## Typical Performance Data @ 0°C

FREQUENCY (MHz)	Attenuation relative to Insertion Loss (dB)									
	0.25 dB	1 dB	5 dB	10 dB	20 dB	40 dB	60 dB	80 dB	90 dB	95 dB
1	0.30	1.09	5.25	10.14	20.09	39.60	59.20	78.74	87.99	92.69
5	0.30	1.09	5.25	10.13	20.09	39.60	59.21	78.72	88.00	92.67
10	0.30	1.09	5.25	10.13	20.08	39.60	59.21	78.74	88.30	92.63
20	0.30	1.09	5.25	10.13	20.08	39.60	59.19	78.79	88.53	92.91
50	0.30	1.09	5.24	10.12	20.07	39.58	59.17	78.73	88.28	93.00
100	0.30	1.09	5.23	10.10	20.05	39.56	59.16	78.71	88.27	92.96
200	0.29	1.08	5.19	10.06	19.99	39.50	59.10	78.61	88.23	93.07
300	0.29	1.06	5.15	10.01	19.94	39.45	59.05	78.57	88.13	92.77
500	0.28	1.03	5.04	9.86	19.78	39.30	58.90	78.41	88.09	92.56
700	0.27	1.00	4.94	9.73	19.64	39.16	58.77	78.29	87.86	92.52
900	0.26	0.98	4.88	9.65	19.56	39.08	58.71	78.22	87.80	92.81
1000	0.26	0.98	4.87	9.64	19.55	39.08	58.71	78.27	87.76	92.81
1200	0.26	0.98	4.88	9.64	19.55	39.09	58.74	78.32	88.02	92.72
1400	0.26	0.99	4.90	9.66	19.57	39.12	58.79	78.38	87.93	92.68
1500	0.26	0.99	4.90	9.66	19.57	39.13	58.81	78.42	87.88	92.86
1600	0.25	0.99	4.91	9.66	19.57	39.13	58.83	78.50	88.11	92.65
1800	0.25	0.99	4.91	9.65	19.56	39.14	58.86	78.53	88.22	93.04
2000	0.25	1.00	4.91	9.65	19.57	39.16	58.90	78.63	88.31	92.80
2100	0.25	1.00	4.92	9.66	19.58	39.18	58.94	78.64	88.31	93.01
2200	0.25	1.00	4.94	9.67	19.60	39.21	58.99	78.76	88.43	93.17
2400	0.25	1.01	4.98	9.72	19.66	39.29	59.09	78.92	88.71	93.27
2500	0.26	1.02	5.00	9.75	19.70	39.34	59.17	79.05	88.78	93.51
2700	0.26	1.04	5.06	9.82	19.79	39.45	59.33	79.23	89.06	93.85
2800	0.27	1.04	5.08	9.85	19.84	39.51	59.40	79.32	89.17	94.23
3000	0.27	1.05	5.12	9.90	19.91	39.60	59.53	79.54	89.50	94.34
3100	0.27	1.05	5.13	9.91	19.93	39.64	59.58	79.64	89.49	94.09
3300	0.27	1.05	5.13	9.92	19.97	39.70	59.68	79.85	89.73	94.37
3400	0.27	1.05	5.13	9.91	19.97	39.72	59.74	79.92	89.75	94.66
3600	0.28	1.04	5.12	9.90	19.99	39.76	59.83	80.05	89.91	94.99
3700	0.28	1.03	5.11	9.89	19.99	39.78	59.88	80.17	90.00	94.96
3900	0.27	1.02	5.10	9.87	20.00	39.82	59.98	80.31	90.57	94.99
4000	0.27	1.02	5.09	9.87	20.01	39.84	60.04	80.44	90.47	95.50
4200	0.27	1.01	5.07	9.85	20.02	39.89	60.15	80.63	90.75	96.03
4300	0.27	1.01	5.07	9.85	20.03	39.92	60.23	80.74	90.78	95.29
4500	0.27	1.01	5.06	9.84	20.06	39.99	60.38	81.01	90.96	95.81
4600	0.27	1.01	5.06	9.84	20.07	40.03	60.48	81.07	91.09	96.22
4800	0.27	1.01	5.07	9.85	20.12	40.13	60.65	81.32	91.37	96.42
4900	0.27	1.01	5.07	9.86	20.14	40.18	60.75	81.53	91.54	96.44
5100	0.27	1.01	5.08	9.87	20.20	40.28	60.96	81.69	91.67	96.56
5200	0.27	1.02	5.08	9.87	20.22	40.34	61.06	81.84	92.07	96.76
5400	0.27	1.02	5.08	9.89	20.28	40.45	61.25	81.99	91.91	97.34
5500	0.27	1.02	5.09	9.90	20.31	40.51	61.37	82.12	92.49	97.67
5700	0.28	1.03	5.11	9.94	20.38	40.65	61.58	82.40	92.80	97.20
5800	0.28	1.03	5.13	9.97	20.43	40.72	61.71	82.49	92.74	97.53
6000	0.29	1.04	5.18	10.04	20.54	40.89	61.93	82.77	93.35	98.19
6100	0.29	1.05	5.20	10.09	20.60	40.96	62.03	82.93	93.02	98.52
6300	0.31	1.05	5.24	10.15	20.68	41.08	62.16	83.09	93.16	98.10
6400	0.31	1.05	5.24	10.15	20.69	41.10	62.19	83.22	93.12	98.09
6600	0.31	1.03	5.19	10.10	20.63	41.08	62.17	83.08	93.54	98.82
6700	0.31	1.02	5.17	10.08	20.61	41.07	62.14	83.03	93.42	98.77
6900	0.31	1.01	5.15	10.05	20.58	41.05	62.08	82.99	93.25	98.69
7000	0.30	1.01	5.14	10.04	20.57	41.06	62.05	82.86	93.17	98.78
7200	0.30	1.01	5.17	10.06	20.61	41.12	62.02	82.76	92.97	98.79
7300	0.30	1.02	5.18	10.08	20.64	41.16	62.01	82.65	92.91	98.08
7500	0.29	1.03	5.21	10.10	20.69	41.22	61.98	82.48	92.70	97.22
7600	0.29	1.03	5.22	10.11	20.71	41.24	61.93	82.35	92.53	97.22
7800	0.30	1.04	5.24	10.12	20.75	41.28	61.86	82.09	92.13	97.21
7900	0.30	1.04	5.26	10.14	20.78	41.30	61.84	81.93	92.23	97.92
8000	0.31	1.05	5.29	10.17	20.83	41.34	61.81	81.82	91.87	97.64

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



# Programmable Attenuator

# RC4DAT-8G-95

## Typical Performance Data @ 0°C

FREQUENCY (MHz)	Attenuation accuracy relative to nominal attenuation setting (dB)									
	0.25 dB	1 dB	5 dB	10 dB	20 dB	40 dB	60 dB	80 dB	90 dB	95 dB
1	-0.05	-0.09	-0.25	-0.14	-0.09	0.40	0.80	1.26	2.01	2.31
5	-0.05	-0.09	-0.25	-0.13	-0.08	0.40	0.79	1.28	2.00	2.33
10	-0.05	-0.09	-0.25	-0.13	-0.08	0.40	0.79	1.26	1.70	2.37
20	-0.05	-0.09	-0.25	-0.13	-0.08	0.40	0.81	1.21	1.47	2.09
50	-0.05	-0.09	-0.24	-0.12	-0.07	0.42	0.83	1.27	1.72	2.00
100	-0.05	-0.09	-0.23	-0.10	-0.05	0.44	0.84	1.29	1.73	2.04
200	-0.04	-0.08	-0.19	-0.06	0.01	0.50	0.90	1.39	1.77	1.93
300	-0.04	-0.06	-0.15	-0.01	0.06	0.55	0.95	1.43	1.88	2.23
500	-0.03	-0.03	-0.04	0.14	0.22	0.71	1.10	1.59	1.91	2.44
700	-0.02	0.00	0.06	0.27	0.36	0.84	1.23	1.71	2.14	2.48
900	-0.01	0.02	0.12	0.35	0.44	0.92	1.29	1.78	2.20	2.20
1000	-0.01	0.02	0.13	0.36	0.45	0.92	1.29	1.73	2.24	2.19
1200	-0.01	0.02	0.12	0.36	0.45	0.91	1.26	1.68	1.99	2.28
1400	-0.01	0.01	0.10	0.35	0.43	0.88	1.21	1.62	2.07	2.32
1500	-0.01	0.01	0.10	0.34	0.43	0.87	1.19	1.58	2.12	2.14
1600	0.00	0.01	0.09	0.35	0.43	0.87	1.17	1.50	1.89	2.35
1800	0.00	0.01	0.09	0.35	0.44	0.86	1.14	1.47	1.78	1.96
2000	0.00	0.00	0.09	0.35	0.43	0.85	1.10	1.37	1.69	2.20
2100	0.00	0.00	0.08	0.35	0.42	0.82	1.06	1.36	1.69	1.99
2200	0.00	0.00	0.06	0.33	0.40	0.79	1.01	1.24	1.57	1.83
2400	0.00	-0.01	0.02	0.28	0.34	0.71	0.91	1.08	1.29	1.73
2500	-0.01	-0.02	0.00	0.25	0.30	0.66	0.83	0.96	1.22	1.49
2700	-0.01	-0.03	-0.06	0.18	0.21	0.55	0.67	0.77	0.94	1.15
2800	-0.01	-0.04	-0.08	0.15	0.16	0.49	0.60	0.68	0.83	0.77
3000	-0.02	-0.05	-0.12	0.10	0.09	0.40	0.47	0.46	0.50	0.66
3100	-0.02	-0.05	-0.13	0.09	0.07	0.36	0.42	0.36	0.51	0.91
3300	-0.02	-0.05	-0.13	0.08	0.03	0.30	0.32	0.15	0.27	0.63
3400	-0.02	-0.05	-0.13	0.09	0.03	0.28	0.26	0.08	0.25	0.34
3600	-0.03	-0.04	-0.12	0.10	0.01	0.24	0.17	-0.05	0.09	0.01
3700	-0.03	-0.03	-0.11	0.11	0.01	0.22	0.12	-0.17	0.00	0.04
3900	-0.02	-0.02	-0.09	0.13	0.00	0.18	0.02	-0.31	-0.57	0.01
4000	-0.02	-0.02	-0.09	0.14	-0.01	0.16	-0.04	-0.44	-0.47	-0.50
4200	-0.02	-0.01	-0.07	0.15	-0.02	0.11	-0.15	-0.63	-0.75	-1.03
4300	-0.02	-0.01	-0.07	0.15	-0.03	0.08	-0.23	-0.74	-0.78	-0.29
4500	-0.02	-0.01	-0.06	0.16	-0.06	0.01	-0.38	-1.01	-0.96	-0.81
4600	-0.02	-0.01	-0.06	0.16	-0.07	-0.03	-0.47	-1.07	-1.09	-1.22
4800	-0.02	-0.01	-0.07	0.15	-0.12	-0.13	-0.65	-1.32	-1.37	-1.42
4900	-0.02	-0.01	-0.07	0.14	-0.14	-0.18	-0.75	-1.53	-1.54	-1.44
5100	-0.02	-0.01	-0.07	0.13	-0.19	-0.28	-0.96	-1.68	-1.67	-1.56
5200	-0.02	-0.02	-0.08	0.13	-0.22	-0.34	-1.06	-1.84	-2.07	-1.76
5400	-0.02	-0.02	-0.08	0.11	-0.27	-0.45	-1.24	-1.99	-1.91	-2.34
5500	-0.02	-0.02	-0.09	0.10	-0.31	-0.51	-1.37	-2.12	-2.49	-2.67
5700	-0.03	-0.03	-0.11	0.06	-0.38	-0.65	-1.58	-2.40	-2.80	-2.20
5800	-0.03	-0.03	-0.13	0.03	-0.43	-0.72	-1.71	-2.49	-2.74	-2.53
6000	-0.04	-0.04	-0.18	-0.04	-0.54	-0.89	-1.93	-2.77	-3.35	-3.19
6100	-0.04	-0.05	-0.20	-0.09	-0.60	-0.96	-2.03	-2.93	-3.02	-3.52
6300	-0.06	-0.05	-0.24	-0.15	-0.68	-1.08	-2.16	-3.09	-3.16	-3.10
6400	-0.06	-0.05	-0.24	-0.15	-0.69	-1.10	-2.19	-3.22	-3.12	-3.09
6600	-0.06	-0.03	-0.19	-0.10	-0.63	-1.08	-2.17	-3.08	-3.54	-3.82
6700	-0.06	-0.02	-0.17	-0.08	-0.61	-1.07	-2.13	-3.03	-3.42	-3.76
6900	-0.06	-0.01	-0.15	-0.05	-0.58	-1.05	-2.08	-2.99	-3.25	-3.69
7000	-0.05	-0.01	-0.14	-0.04	-0.57	-1.06	-2.05	-2.86	-3.17	-3.78
7200	-0.05	-0.01	-0.17	-0.06	-0.61	-1.12	-2.02	-2.76	-2.97	-3.79
7300	-0.04	-0.02	-0.18	-0.08	-0.64	-1.15	-2.01	-2.65	-2.91	-3.08
7500	-0.04	-0.02	-0.21	-0.10	-0.69	-1.22	-1.98	-2.48	-2.70	-2.21
7600	-0.04	-0.03	-0.22	-0.11	-0.70	-1.24	-1.93	-2.35	-2.53	-2.22
7800	-0.05	-0.03	-0.24	-0.12	-0.75	-1.28	-1.86	-2.09	-2.13	-2.21
7900	-0.05	-0.04	-0.26	-0.14	-0.78	-1.30	-1.84	-1.93	-2.23	-2.92
8000	-0.06	-0.05	-0.28	-0.17	-0.83	-1.33	-1.81	-1.82	-1.87	-2.64

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# Programmable Attenuator

# RC4DAT-8G-95

## Typical Performance Data @ 0°C

FREQUENCY (MHz)	Input VSWR (:1)									
	0.25 dB	1 dB	5 dB	10 dB	20 dB	40 dB	60 dB	80 dB	90 dB	95 dB
1	1.61	1.50	1.31	1.13	1.07	1.03	1.09	1.16	1.16	1.17
5	1.61	1.50	1.31	1.13	1.07	1.02	1.09	1.16	1.15	1.17
10	1.61	1.50	1.30	1.13	1.07	1.02	1.09	1.16	1.15	1.17
20	1.61	1.50	1.30	1.12	1.07	1.01	1.08	1.15	1.15	1.16
50	1.61	1.49	1.30	1.13	1.07	1.01	1.08	1.15	1.15	1.16
100	1.60	1.49	1.31	1.13	1.07	1.01	1.07	1.14	1.14	1.15
200	1.56	1.46	1.30	1.13	1.08	1.00	1.07	1.14	1.13	1.14
300	1.50	1.41	1.27	1.12	1.07	1.01	1.07	1.14	1.13	1.15
500	1.35	1.28	1.21	1.10	1.07	1.01	1.08	1.14	1.14	1.15
700	1.21	1.16	1.15	1.08	1.07	1.01	1.07	1.14	1.14	1.15
900	1.08	1.06	1.12	1.07	1.06	1.01	1.07	1.14	1.14	1.15
1000	1.04	1.05	1.12	1.07	1.06	1.01	1.07	1.14	1.14	1.15
1200	1.06	1.09	1.13	1.07	1.07	1.00	1.07	1.14	1.14	1.15
1400	1.11	1.13	1.14	1.08	1.07	1.00	1.06	1.14	1.14	1.15
1500	1.12	1.15	1.14	1.08	1.08	1.00	1.06	1.13	1.14	1.14
1600	1.13	1.15	1.14	1.08	1.08	1.01	1.06	1.13	1.14	1.14
1800	1.11	1.13	1.13	1.08	1.09	1.01	1.05	1.13	1.13	1.14
2000	1.07	1.09	1.11	1.07	1.09	1.01	1.05	1.12	1.13	1.13
2100	1.06	1.08	1.10	1.07	1.09	1.01	1.05	1.12	1.13	1.13
2200	1.07	1.08	1.10	1.07	1.09	1.02	1.04	1.12	1.13	1.13
2400	1.14	1.12	1.12	1.08	1.09	1.02	1.04	1.12	1.13	1.13
2500	1.19	1.16	1.14	1.09	1.10	1.02	1.04	1.12	1.13	1.13
2700	1.27	1.23	1.18	1.11	1.10	1.02	1.04	1.12	1.13	1.13
2800	1.31	1.26	1.21	1.11	1.10	1.02	1.03	1.11	1.13	1.13
3000	1.37	1.31	1.24	1.13	1.11	1.03	1.03	1.11	1.13	1.12
3100	1.38	1.33	1.26	1.14	1.12	1.03	1.02	1.11	1.13	1.12
3300	1.38	1.33	1.27	1.15	1.13	1.04	1.02	1.11	1.12	1.12
3400	1.37	1.33	1.28	1.16	1.14	1.04	1.01	1.10	1.12	1.11
3600	1.33	1.30	1.28	1.17	1.15	1.05	1.01	1.09	1.12	1.11
3700	1.30	1.28	1.27	1.17	1.16	1.06	1.01	1.09	1.11	1.10
3900	1.22	1.22	1.25	1.16	1.17	1.07	1.02	1.09	1.11	1.10
4000	1.18	1.19	1.24	1.16	1.17	1.08	1.03	1.09	1.11	1.09
4200	1.12	1.15	1.21	1.15	1.19	1.09	1.04	1.09	1.10	1.09
4300	1.11	1.14	1.20	1.15	1.19	1.09	1.05	1.09	1.10	1.09
4500	1.14	1.16	1.19	1.14	1.19	1.11	1.07	1.10	1.11	1.10
4600	1.16	1.17	1.18	1.14	1.19	1.11	1.08	1.11	1.11	1.11
4800	1.21	1.21	1.18	1.14	1.20	1.13	1.10	1.12	1.12	1.12
4900	1.22	1.21	1.17	1.14	1.19	1.14	1.11	1.14	1.14	1.13
5100	1.21	1.20	1.16	1.14	1.19	1.16	1.14	1.17	1.16	1.17
5200	1.19	1.18	1.15	1.13	1.18	1.17	1.15	1.19	1.18	1.18
5400	1.16	1.15	1.13	1.13	1.18	1.20	1.18	1.23	1.22	1.22
5500	1.15	1.14	1.13	1.13	1.18	1.22	1.20	1.25	1.25	1.25
5700	1.16	1.14	1.14	1.13	1.19	1.26	1.25	1.31	1.31	1.31
5800	1.16	1.15	1.15	1.14	1.19	1.28	1.27	1.35	1.34	1.34
6000	1.15	1.15	1.15	1.16	1.21	1.33	1.32	1.42	1.41	1.41
6100	1.12	1.13	1.14	1.17	1.22	1.35	1.34	1.45	1.46	1.45
6300	1.07	1.09	1.14	1.20	1.26	1.40	1.40	1.53	1.54	1.53
6400	1.09	1.11	1.15	1.23	1.27	1.43	1.43	1.58	1.59	1.57
6600	1.25	1.24	1.21	1.29	1.31	1.48	1.49	1.68	1.70	1.67
6700	1.29	1.28	1.24	1.32	1.32	1.50	1.51	1.70	1.73	1.70
6900	1.38	1.36	1.30	1.37	1.35	1.54	1.55	1.78	1.81	1.77
7000	1.41	1.39	1.34	1.40	1.36	1.55	1.57	1.81	1.85	1.81
7200	1.44	1.42	1.40	1.45	1.38	1.58	1.60	1.88	1.93	1.87
7300	1.45	1.44	1.44	1.47	1.40	1.58	1.62	1.90	1.96	1.90
7500	1.51	1.51	1.53	1.54	1.44	1.60	1.64	1.95	2.01	1.94
7600	1.56	1.56	1.59	1.57	1.46	1.61	1.64	1.96	2.04	1.96
7800	1.69	1.70	1.72	1.66	1.53	1.61	1.65	1.99	2.07	1.99
7900	1.76	1.77	1.78	1.71	1.56	1.62	1.66	2.00	2.08	1.99
8000	1.82	1.83	1.85	1.76	1.60	1.62	1.66	2.00	2.09	2.00

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# Programmable Attenuator

# RC4DAT-8G-95

## Typical Performance Data @ 0°C

FREQUENCY (MHz)	Output VSWR (:1)									
	0.25 dB	1 dB	5 dB	10 dB	20 dB	40 dB	60 dB	80 dB	90 dB	95 dB
1	1.61	1.56	1.24	1.14	1.05	1.13	1.07	1.10	1.13	1.14
5	1.61	1.56	1.24	1.14	1.05	1.13	1.07	1.10	1.12	1.13
10	1.61	1.56	1.24	1.14	1.04	1.13	1.06	1.10	1.12	1.13
20	1.61	1.56	1.24	1.14	1.04	1.12	1.06	1.09	1.12	1.13
50	1.61	1.56	1.24	1.14	1.04	1.12	1.06	1.09	1.11	1.12
100	1.61	1.56	1.25	1.15	1.03	1.11	1.05	1.08	1.11	1.11
200	1.56	1.52	1.23	1.15	1.02	1.10	1.04	1.08	1.10	1.11
300	1.50	1.47	1.21	1.13	1.03	1.11	1.05	1.08	1.11	1.12
500	1.38	1.36	1.17	1.13	1.02	1.10	1.05	1.08	1.10	1.11
700	1.24	1.24	1.13	1.12	1.02	1.10	1.05	1.08	1.10	1.11
900	1.12	1.14	1.13	1.14	1.02	1.09	1.05	1.08	1.10	1.10
1000	1.08	1.10	1.14	1.15	1.02	1.09	1.05	1.07	1.09	1.10
1200	1.10	1.11	1.18	1.18	1.03	1.08	1.05	1.07	1.09	1.09
1400	1.17	1.16	1.22	1.21	1.04	1.07	1.05	1.07	1.08	1.08
1500	1.18	1.17	1.23	1.22	1.05	1.07	1.05	1.06	1.08	1.08
1600	1.19	1.18	1.24	1.23	1.06	1.07	1.05	1.06	1.07	1.08
1800	1.16	1.15	1.23	1.23	1.06	1.06	1.05	1.06	1.07	1.07
2000	1.09	1.08	1.20	1.22	1.07	1.06	1.05	1.06	1.06	1.06
2100	1.06	1.06	1.19	1.22	1.07	1.06	1.05	1.06	1.06	1.06
2200	1.06	1.06	1.18	1.21	1.07	1.06	1.05	1.06	1.06	1.06
2400	1.14	1.14	1.18	1.21	1.08	1.06	1.06	1.06	1.07	1.06
2500	1.20	1.19	1.19	1.21	1.08	1.06	1.06	1.06	1.07	1.06
2700	1.32	1.31	1.23	1.22	1.09	1.06	1.06	1.07	1.07	1.06
2800	1.38	1.36	1.25	1.23	1.09	1.06	1.07	1.07	1.07	1.06
3000	1.47	1.45	1.29	1.24	1.10	1.06	1.07	1.07	1.07	1.06
3100	1.50	1.48	1.30	1.24	1.10	1.05	1.07	1.07	1.06	1.05
3300	1.51	1.49	1.30	1.25	1.10	1.05	1.06	1.06	1.06	1.05
3400	1.49	1.48	1.30	1.24	1.09	1.04	1.06	1.06	1.05	1.04
3600	1.42	1.43	1.27	1.23	1.09	1.04	1.05	1.05	1.05	1.03
3700	1.37	1.39	1.25	1.23	1.08	1.03	1.04	1.04	1.04	1.03
3900	1.28	1.30	1.22	1.22	1.08	1.02	1.02	1.03	1.03	1.02
4000	1.23	1.26	1.21	1.21	1.07	1.01	1.02	1.02	1.02	1.01
4200	1.17	1.20	1.20	1.21	1.07	1.01	1.01	1.02	1.02	1.01
4300	1.15	1.17	1.19	1.22	1.07	1.01	1.01	1.02	1.02	1.01
4500	1.15	1.15	1.21	1.22	1.07	1.02	1.03	1.03	1.02	1.03
4600	1.15	1.15	1.21	1.23	1.07	1.03	1.05	1.05	1.03	1.04
4800	1.15	1.14	1.21	1.22	1.07	1.05	1.08	1.07	1.06	1.06
4900	1.15	1.13	1.21	1.21	1.07	1.06	1.09	1.09	1.07	1.07
5100	1.12	1.10	1.18	1.19	1.05	1.09	1.13	1.12	1.10	1.10
5200	1.10	1.09	1.17	1.17	1.04	1.10	1.15	1.14	1.12	1.11
5400	1.08	1.08	1.13	1.13	1.04	1.13	1.19	1.17	1.15	1.14
5500	1.07	1.07	1.11	1.10	1.04	1.15	1.21	1.20	1.17	1.16
5700	1.07	1.07	1.07	1.07	1.07	1.19	1.25	1.24	1.21	1.20
5800	1.06	1.07	1.06	1.06	1.10	1.21	1.28	1.26	1.24	1.22
6000	1.04	1.04	1.09	1.10	1.17	1.26	1.33	1.32	1.30	1.27
6100	1.06	1.05	1.13	1.14	1.21	1.28	1.36	1.34	1.32	1.30
6300	1.19	1.17	1.23	1.23	1.28	1.32	1.40	1.39	1.37	1.34
6400	1.28	1.25	1.29	1.28	1.32	1.35	1.42	1.41	1.40	1.36
6600	1.49	1.46	1.45	1.40	1.41	1.40	1.46	1.46	1.46	1.41
6700	1.54	1.51	1.48	1.43	1.44	1.42	1.47	1.47	1.47	1.43
6900	1.62	1.60	1.57	1.50	1.49	1.45	1.49	1.50	1.51	1.46
7000	1.64	1.63	1.59	1.53	1.52	1.47	1.49	1.51	1.53	1.48
7200	1.63	1.64	1.62	1.57	1.55	1.49	1.49	1.52	1.56	1.50
7300	1.62	1.64	1.62	1.58	1.56	1.50	1.48	1.52	1.56	1.51
7500	1.65	1.67	1.62	1.60	1.57	1.51	1.46	1.51	1.57	1.52
7600	1.68	1.70	1.63	1.61	1.57	1.52	1.45	1.51	1.57	1.52
7800	1.74	1.74	1.64	1.62	1.56	1.51	1.41	1.48	1.56	1.51
7900	1.74	1.74	1.63	1.62	1.55	1.50	1.39	1.46	1.55	1.50
8000	1.71	1.71	1.62	1.62	1.55	1.49	1.36	1.45	1.54	1.49

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# Programmable Attenuator

# RC4DAT-8G-95

## Typical Performance Data @ 0°C

FREQUENCY (MHz)	I. Loss (dB)	Cross-Over Isolation (dB)			
		In1-In2	In1-out2	Out1- In2	Out1- Out2
1	2.59	108.07	106.83	108.29	112.87
5	2.60	106.93	106.42	111.24	112.25
10	2.60	113.69	114.81	118.66	118.31
20	2.61	128.37	129.46	125.36	125.28
50	2.65	123.47	126.02	128.68	124.07
100	2.73	127.99	123.84	125.35	121.56
200	2.86	127.15	123.08	126.93	126.45
300	2.98	130.85	124.71	123.50	131.09
500	3.26	124.93	126.51	129.40	126.54
700	3.52	126.45	124.02	124.76	122.82
900	3.72	122.91	122.49	120.82	127.40
1000	3.80	120.73	124.10	122.46	123.30
1200	3.91	126.28	125.18	124.08	123.11
1400	4.03	124.99	126.05	124.75	123.96
1500	4.10	125.12	125.47	124.20	124.15
1600	4.17	124.48	125.79	123.59	127.64
1800	4.32	125.32	125.78	128.91	122.43
2000	4.46	122.98	125.64	124.08	129.41
2100	4.53	126.81	122.89	127.60	124.05
2200	4.59	127.63	122.67	123.49	121.47
2400	4.69	125.10	124.25	124.69	121.64
2500	4.73	123.39	125.96	122.09	125.99
2700	4.81	123.07	122.50	124.54	122.93
2800	4.86	121.40	121.78	125.83	121.89
3000	4.97	124.61	120.11	123.80	128.79
3100	5.04	119.71	122.42	124.53	121.70
3300	5.20	122.30	129.48	126.90	122.62
3400	5.29	125.66	123.84	128.01	127.30
3600	5.48	123.19	122.43	127.96	123.89
3700	5.58	124.37	126.16	125.90	123.59
3900	5.77	124.46	124.07	125.28	125.03
4000	5.87	123.09	121.47	123.73	123.38
4200	6.07	125.54	124.36	124.83	125.61
4300	6.16	121.52	123.69	124.51	123.99
4500	6.34	120.22	126.10	121.36	122.37
4600	6.43	124.36	122.61	122.57	122.82
4800	6.59	120.35	124.10	125.19	121.58
4900	6.66	127.15	121.74	121.48	121.86
5100	6.81	123.65	122.73	121.14	124.16
5200	6.89	127.94	122.11	120.16	129.88
5400	7.03	122.05	122.25	122.27	120.60
5500	7.09	122.59	124.24	121.35	125.60
5700	7.22	120.79	121.34	120.90	123.18
5800	7.27	127.07	122.87	123.73	121.80
6000	7.37	126.16	123.35	121.02	122.47
6100	7.42	124.68	123.08	120.26	125.79
6300	7.57	122.50	128.51	120.26	117.50
6400	7.68	118.73	122.73	118.82	122.77
6600	8.04	122.60	123.76	122.92	119.67
6700	8.15	124.92	123.46	121.30	119.04
6900	8.43	122.79	119.57	119.32	118.81
7000	8.57	122.36	120.50	119.30	118.91
7200	8.82	121.69	119.66	119.98	121.39
7300	8.94	120.69	119.81	119.23	120.02
7500	9.20	117.34	119.85	116.73	113.92
7600	9.35	113.01	117.89	112.07	112.38
7800	9.66	101.37	106.29	104.76	104.00
7900	9.82	96.47	102.42	100.60	100.00
8000	9.96	93.57	99.66	97.59	97.82

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# Programmable Attenuator

# RC4DAT-8G-95

## Typical Performance Data @ 0°C

FREQUENCY (MHz)	IP3 (dBm)
1	43.83
5	51.26
10	50.38
50	53.66
100	51.62
200	53.01
300	52.76
400	53.62
500	54.05
600	53.78
700	53.10
750	52.60
800	52.10
900	51.41
1000	53.10
1500	53.33
2000	52.88
2500	53.91
3000	54.14
3500	55.27
4000	50.05
4500	47.59
5000	53.15
5500	48.70
6000	48.01
6500	47.30
7000	48.39
7500	51.60
8000	48.26

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# Programmable Attenuator

# RC4DAT-8G-95

## Typical Performance Data @ 25°C

FREQUENCY (MHz)	Attenuation relative to Insertion Loss (dB)									
	0.25 dB	1 dB	5 dB	10 dB	20 dB	40 dB	60 dB	80 dB	90 dB	95 dB
1	0.29	1.08	5.21	10.05	19.96	39.41	59.01	78.39	87.60	92.27
5	0.29	1.08	5.21	10.05	19.96	39.41	59.00	78.42	87.83	92.60
10	0.29	1.08	5.20	10.05	19.96	39.41	59.00	78.41	87.87	92.66
20	0.29	1.08	5.20	10.05	19.96	39.41	59.00	78.55	88.12	92.66
50	0.29	1.08	5.20	10.04	19.95	39.40	58.99	78.51	87.99	92.84
100	0.29	1.08	5.19	10.04	19.94	39.39	58.99	78.50	88.13	92.74
200	0.29	1.06	5.16	9.99	19.89	39.33	58.93	78.46	88.04	92.70
300	0.28	1.05	5.11	9.92	19.81	39.25	58.85	78.39	88.04	92.67
500	0.27	1.01	4.99	9.77	19.64	39.07	58.68	78.19	87.81	92.58
700	0.26	0.98	4.89	9.64	19.49	38.92	58.53	78.06	87.67	92.32
900	0.26	0.97	4.84	9.57	19.41	38.84	58.47	77.99	87.65	92.25
1000	0.26	0.97	4.84	9.56	19.40	38.84	58.47	78.01	87.68	92.20
1200	0.25	0.98	4.86	9.58	19.42	38.85	58.49	78.05	87.64	92.38
1400	0.25	0.98	4.88	9.60	19.44	38.89	58.54	78.11	87.74	92.55
1500	0.25	0.99	4.89	9.60	19.44	38.90	58.56	78.21	87.81	92.44
1600	0.25	0.99	4.89	9.60	19.44	38.90	58.57	78.19	87.81	92.32
1800	0.25	0.99	4.89	9.58	19.43	38.91	58.61	78.19	87.73	92.68
2000	0.25	0.99	4.89	9.58	19.44	38.93	58.66	78.35	87.92	92.52
2100	0.25	0.99	4.90	9.59	19.45	38.95	58.70	78.46	88.11	92.96
2200	0.25	1.00	4.91	9.60	19.48	38.98	58.75	78.53	88.26	92.87
2400	0.25	1.01	4.95	9.65	19.54	39.07	58.88	78.68	88.29	93.11
2500	0.25	1.01	4.97	9.67	19.58	39.12	58.95	78.77	88.63	93.18
2700	0.26	1.02	5.01	9.73	19.65	39.21	59.09	78.97	88.51	93.64
2800	0.26	1.02	5.03	9.75	19.69	39.26	59.15	79.03	88.90	93.63
3000	0.26	1.03	5.07	9.80	19.76	39.36	59.29	79.31	89.15	94.14
3100	0.27	1.04	5.08	9.82	19.80	39.41	59.38	79.46	89.26	94.28
3300	0.27	1.04	5.10	9.85	19.85	39.49	59.52	79.66	89.48	94.17
3400	0.27	1.04	5.11	9.85	19.87	39.53	59.58	79.74	89.51	94.34
3600	0.27	1.03	5.09	9.84	19.89	39.58	59.70	79.96	90.06	94.79
3700	0.27	1.03	5.08	9.83	19.89	39.59	59.76	80.06	90.24	95.04
3900	0.27	1.01	5.05	9.79	19.86	39.60	59.84	80.19	90.24	95.19
4000	0.27	1.00	5.03	9.77	19.85	39.60	59.88	80.28	90.47	94.86
4200	0.27	0.99	5.01	9.73	19.82	39.62	59.96	80.36	90.53	95.53
4300	0.27	0.99	5.01	9.73	19.83	39.64	60.01	80.54	90.85	95.38
4500	0.26	0.99	5.03	9.74	19.87	39.71	60.18	80.87	90.98	96.09
4600	0.27	1.00	5.04	9.76	19.90	39.76	60.27	81.05	90.87	96.42
4800	0.27	1.01	5.06	9.78	19.97	39.86	60.46	81.16	91.37	95.86
4900	0.27	1.01	5.06	9.79	20.00	39.91	60.55	81.36	91.32	95.92
5100	0.27	1.01	5.05	9.81	20.07	40.01	60.76	81.61	92.01	97.00
5200	0.27	1.01	5.05	9.83	20.11	40.08	60.87	81.80	91.90	96.14
5400	0.27	1.01	5.06	9.86	20.19	40.23	61.13	82.00	92.13	97.18
5500	0.27	1.01	5.06	9.88	20.23	40.31	61.26	82.20	92.37	96.79
5700	0.27	1.02	5.09	9.92	20.30	40.46	61.52	82.44	92.47	97.80
5800	0.27	1.02	5.10	9.94	20.35	40.54	61.64	82.64	93.00	97.56
6000	0.28	1.03	5.16	10.03	20.47	40.73	61.88	82.84	92.87	98.59
6100	0.29	1.04	5.19	10.08	20.54	40.82	62.01	82.97	93.17	97.85
6300	0.30	1.05	5.23	10.14	20.62	40.94	62.21	83.22	93.65	98.66
6400	0.31	1.05	5.23	10.14	20.62	40.96	62.23	83.24	93.65	98.04
6600	0.31	1.02	5.16	10.05	20.53	40.90	62.19	83.24	93.85	98.56
6700	0.31	1.01	5.14	10.03	20.50	40.88	62.17	83.21	93.72	98.72
6900	0.30	1.00	5.11	9.99	20.46	40.85	62.08	83.17	93.49	99.07
7000	0.30	1.00	5.11	9.98	20.46	40.86	62.07	83.08	93.44	98.77
7200	0.29	1.01	5.14	10.01	20.49	40.91	62.06	83.02	93.15	98.69
7300	0.29	1.01	5.16	10.03	20.52	40.94	62.08	82.97	93.24	98.47
7500	0.29	1.02	5.19	10.05	20.57	41.00	62.05	82.93	93.01	97.66
7600	0.29	1.03	5.20	10.06	20.59	41.02	62.02	82.87	93.02	97.34
7800	0.29	1.03	5.22	10.07	20.63	41.05	61.94	82.53	92.86	97.10
7900	0.30	1.04	5.24	10.09	20.67	41.07	61.91	82.45	92.84	97.34
8000	0.30	1.05	5.27	10.12	20.71	41.11	61.89	82.31	92.58	96.88

**Notes**

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# Programmable Attenuator

# RC4DAT-8G-95

## Typical Performance Data @ 25°C

FREQUENCY (MHz)	Attenuation accuracy relative to nominal attenuation setting (dB)									
	0.25 dB	1 dB	5 dB	10 dB	20 dB	40 dB	60 dB	80 dB	90 dB	95 dB
1	-0.04	-0.08	-0.21	-0.05	0.04	0.59	0.99	1.61	2.40	2.74
5	-0.04	-0.08	-0.20	-0.05	0.04	0.60	1.01	1.58	2.17	2.40
10	-0.04	-0.08	-0.20	-0.05	0.04	0.59	1.00	1.59	2.13	2.34
20	-0.04	-0.08	-0.20	-0.05	0.04	0.59	1.00	1.45	1.88	2.34
50	-0.04	-0.08	-0.20	-0.04	0.05	0.60	1.01	1.49	2.01	2.16
100	-0.04	-0.08	-0.19	-0.04	0.06	0.61	1.01	1.50	1.87	2.26
200	-0.04	-0.06	-0.16	0.01	0.11	0.67	1.07	1.54	1.96	2.30
300	-0.03	-0.05	-0.11	0.08	0.19	0.75	1.15	1.61	1.96	2.33
500	-0.02	-0.01	0.01	0.23	0.36	0.93	1.33	1.81	2.20	2.42
700	-0.01	0.02	0.11	0.36	0.51	1.08	1.47	1.94	2.33	2.68
900	-0.01	0.03	0.16	0.43	0.59	1.16	1.53	2.01	2.35	2.75
1000	-0.01	0.03	0.16	0.44	0.60	1.16	1.53	1.99	2.32	2.80
1200	0.00	0.02	0.14	0.42	0.58	1.15	1.51	1.95	2.36	2.62
1400	0.00	0.02	0.12	0.40	0.56	1.11	1.46	1.89	2.26	2.46
1500	0.00	0.01	0.11	0.40	0.56	1.11	1.44	1.79	2.19	2.57
1600	0.00	0.01	0.11	0.40	0.56	1.10	1.43	1.81	2.19	2.68
1800	0.00	0.01	0.11	0.42	0.57	1.10	1.39	1.82	2.27	2.32
2000	0.00	0.01	0.11	0.42	0.56	1.07	1.34	1.65	2.08	2.48
2100	0.00	0.01	0.10	0.41	0.55	1.05	1.30	1.54	1.89	2.04
2200	0.00	0.00	0.09	0.40	0.52	1.02	1.25	1.47	1.74	2.13
2400	0.00	0.00	0.05	0.35	0.46	0.93	1.13	1.32	1.71	1.89
2500	0.00	-0.01	0.03	0.33	0.42	0.88	1.06	1.23	1.37	1.82
2700	0.00	-0.02	-0.01	0.27	0.35	0.79	0.91	1.03	1.49	1.36
2800	-0.01	-0.02	-0.03	0.25	0.31	0.74	0.85	0.97	1.10	1.37
3000	-0.01	-0.03	-0.07	0.20	0.24	0.64	0.71	0.69	0.85	0.86
3100	-0.01	-0.03	-0.08	0.19	0.20	0.59	0.62	0.54	0.74	0.72
3300	-0.02	-0.04	-0.10	0.15	0.15	0.51	0.48	0.34	0.52	0.83
3400	-0.02	-0.04	-0.11	0.15	0.13	0.47	0.42	0.26	0.49	0.66
3600	-0.02	-0.03	-0.09	0.16	0.11	0.42	0.30	0.04	-0.06	0.21
3700	-0.02	-0.03	-0.08	0.17	0.11	0.41	0.24	-0.06	-0.24	-0.04
3900	-0.02	-0.01	-0.05	0.21	0.14	0.40	0.16	-0.19	-0.24	-0.19
4000	-0.02	0.00	-0.03	0.23	0.16	0.40	0.12	-0.28	-0.47	0.14
4200	-0.02	0.01	-0.01	0.27	0.18	0.38	0.04	-0.36	-0.53	-0.53
4300	-0.01	0.01	-0.01	0.27	0.17	0.36	-0.01	-0.54	-0.85	-0.38
4500	-0.01	0.01	-0.03	0.26	0.13	0.29	-0.18	-0.87	-0.97	-1.09
4600	-0.01	0.00	-0.04	0.24	0.10	0.24	-0.27	-1.05	-0.87	-1.42
4800	-0.02	-0.01	-0.06	0.22	0.03	0.14	-0.46	-1.16	-1.37	-0.86
4900	-0.02	-0.01	-0.06	0.21	0.00	0.10	-0.55	-1.36	-1.32	-0.92
5100	-0.02	-0.01	-0.05	0.19	-0.07	-0.01	-0.76	-1.61	-2.00	-2.00
5200	-0.02	-0.01	-0.05	0.17	-0.11	-0.08	-0.87	-1.80	-1.89	-1.14
5400	-0.02	-0.01	-0.06	0.14	-0.19	-0.23	-1.13	-2.00	-2.13	-2.18
5500	-0.02	-0.01	-0.06	0.12	-0.23	-0.31	-1.26	-2.20	-2.37	-1.79
5700	-0.02	-0.02	-0.09	0.08	-0.30	-0.46	-1.52	-2.44	-2.47	-2.79
5800	-0.02	-0.02	-0.10	0.06	-0.35	-0.54	-1.64	-2.64	-3.00	-2.56
6000	-0.03	-0.03	-0.16	-0.02	-0.47	-0.73	-1.88	-2.84	-2.87	-3.59
6100	-0.04	-0.04	-0.19	-0.07	-0.53	-0.81	-2.01	-2.97	-3.17	-2.85
6300	-0.05	-0.05	-0.23	-0.14	-0.62	-0.94	-2.21	-3.22	-3.65	-3.66
6400	-0.06	-0.05	-0.22	-0.14	-0.62	-0.96	-2.23	-3.24	-3.65	-3.04
6600	-0.06	-0.02	-0.16	-0.05	-0.53	-0.90	-2.19	-3.24	-3.85	-3.56
6700	-0.06	-0.01	-0.14	-0.03	-0.50	-0.88	-2.17	-3.21	-3.71	-3.72
6900	-0.05	0.00	-0.11	0.01	-0.46	-0.85	-2.08	-3.17	-3.49	-4.07
7000	-0.05	0.00	-0.11	0.02	-0.46	-0.86	-2.07	-3.08	-3.44	-3.77
7200	-0.04	-0.01	-0.14	-0.01	-0.49	-0.91	-2.06	-3.02	-3.15	-3.69
7300	-0.04	-0.01	-0.16	-0.03	-0.52	-0.94	-2.08	-2.97	-3.24	-3.46
7500	-0.04	-0.02	-0.19	-0.05	-0.57	-1.00	-2.05	-2.93	-3.01	-2.66
7600	-0.04	-0.03	-0.20	-0.06	-0.59	-1.02	-2.02	-2.87	-3.02	-2.34
7800	-0.04	-0.03	-0.22	-0.07	-0.63	-1.05	-1.94	-2.53	-2.86	-2.10
7900	-0.05	-0.04	-0.24	-0.09	-0.67	-1.07	-1.91	-2.45	-2.84	-2.34
8000	-0.05	-0.05	-0.27	-0.12	-0.71	-1.11	-1.89	-2.31	-2.58	-1.88

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# Programmable Attenuator

# RC4DAT-8G-95

## Typical Performance Data @ 25°C

FREQUENCY (MHz)	Input VSWR (:1)									
	0.25 dB	1 dB	5 dB	10 dB	20 dB	40 dB	60 dB	80 dB	90 dB	95 dB
1	1.66	1.54	1.36	1.18	1.12	1.05	1.04	1.11	1.10	1.12
5	1.66	1.54	1.36	1.18	1.12	1.04	1.04	1.10	1.10	1.11
10	1.65	1.54	1.36	1.18	1.12	1.04	1.04	1.10	1.10	1.11
20	1.65	1.54	1.36	1.18	1.12	1.04	1.03	1.10	1.10	1.11
50	1.65	1.54	1.36	1.18	1.12	1.04	1.03	1.10	1.10	1.11
100	1.64	1.53	1.35	1.17	1.12	1.04	1.03	1.10	1.09	1.11
200	1.58	1.48	1.33	1.17	1.11	1.04	1.03	1.10	1.09	1.11
300	1.51	1.43	1.30	1.16	1.11	1.04	1.03	1.10	1.09	1.11
500	1.36	1.30	1.23	1.13	1.10	1.03	1.04	1.10	1.10	1.11
700	1.21	1.17	1.17	1.10	1.09	1.03	1.04	1.10	1.10	1.11
900	1.09	1.07	1.12	1.08	1.08	1.02	1.04	1.11	1.11	1.12
1000	1.04	1.04	1.11	1.07	1.07	1.02	1.04	1.11	1.11	1.12
1200	1.04	1.07	1.10	1.06	1.07	1.02	1.05	1.11	1.12	1.12
1400	1.09	1.11	1.11	1.06	1.07	1.03	1.05	1.12	1.12	1.13
1500	1.11	1.13	1.11	1.07	1.07	1.04	1.06	1.12	1.12	1.13
1600	1.12	1.14	1.12	1.07	1.08	1.04	1.06	1.12	1.13	1.13
1800	1.12	1.14	1.12	1.08	1.09	1.06	1.06	1.12	1.13	1.13
2000	1.09	1.11	1.11	1.09	1.11	1.07	1.07	1.12	1.13	1.13
2100	1.08	1.10	1.12	1.10	1.12	1.08	1.07	1.11	1.13	1.13
2200	1.08	1.10	1.12	1.11	1.14	1.09	1.08	1.11	1.13	1.12
2400	1.15	1.14	1.17	1.14	1.16	1.11	1.08	1.11	1.13	1.12
2500	1.21	1.19	1.20	1.16	1.17	1.12	1.09	1.10	1.13	1.11
2700	1.33	1.30	1.27	1.20	1.20	1.13	1.09	1.09	1.12	1.10
2800	1.39	1.35	1.31	1.22	1.21	1.14	1.10	1.09	1.11	1.09
3000	1.49	1.44	1.37	1.26	1.24	1.16	1.10	1.07	1.10	1.08
3100	1.51	1.46	1.39	1.27	1.25	1.16	1.11	1.07	1.09	1.07
3300	1.51	1.47	1.41	1.29	1.27	1.17	1.12	1.06	1.07	1.05
3400	1.49	1.45	1.41	1.29	1.27	1.18	1.12	1.05	1.06	1.05
3600	1.40	1.39	1.39	1.28	1.28	1.19	1.14	1.06	1.05	1.05
3700	1.35	1.35	1.37	1.28	1.29	1.20	1.15	1.07	1.05	1.06
3900	1.25	1.27	1.32	1.26	1.29	1.21	1.17	1.09	1.06	1.08
4000	1.22	1.24	1.30	1.25	1.29	1.22	1.18	1.11	1.07	1.10
4200	1.20	1.22	1.27	1.25	1.30	1.24	1.21	1.15	1.11	1.14
4300	1.22	1.24	1.26	1.25	1.30	1.25	1.22	1.17	1.13	1.16
4500	1.29	1.28	1.27	1.26	1.31	1.27	1.25	1.21	1.18	1.21
4600	1.32	1.31	1.27	1.27	1.31	1.29	1.27	1.24	1.20	1.23
4800	1.35	1.33	1.29	1.29	1.32	1.31	1.30	1.29	1.25	1.28
4900	1.35	1.33	1.29	1.30	1.33	1.33	1.32	1.31	1.28	1.30
5100	1.33	1.31	1.29	1.31	1.33	1.36	1.35	1.36	1.33	1.35
5200	1.31	1.30	1.29	1.31	1.33	1.37	1.37	1.38	1.35	1.38
5400	1.28	1.28	1.29	1.31	1.33	1.39	1.39	1.43	1.40	1.42
5500	1.29	1.28	1.29	1.31	1.33	1.41	1.41	1.45	1.43	1.44
5700	1.30	1.29	1.29	1.31	1.33	1.43	1.43	1.50	1.49	1.50
5800	1.29	1.29	1.29	1.31	1.33	1.44	1.44	1.53	1.52	1.52
6000	1.24	1.26	1.27	1.31	1.34	1.47	1.47	1.58	1.58	1.58
6100	1.21	1.23	1.25	1.31	1.34	1.48	1.48	1.60	1.61	1.60
6300	1.19	1.21	1.25	1.33	1.36	1.51	1.52	1.66	1.68	1.66
6400	1.23	1.23	1.26	1.35	1.37	1.52	1.53	1.69	1.71	1.69
6600	1.37	1.35	1.32	1.39	1.39	1.55	1.56	1.75	1.78	1.74
6700	1.41	1.38	1.35	1.41	1.40	1.56	1.57	1.76	1.80	1.76
6900	1.47	1.45	1.40	1.45	1.42	1.58	1.59	1.81	1.86	1.80
7000	1.49	1.47	1.43	1.47	1.43	1.58	1.60	1.83	1.88	1.82
7200	1.50	1.49	1.48	1.50	1.45	1.60	1.62	1.86	1.92	1.86
7300	1.51	1.50	1.51	1.52	1.46	1.60	1.63	1.88	1.95	1.87
7500	1.56	1.56	1.58	1.57	1.49	1.61	1.63	1.90	1.98	1.90
7600	1.61	1.61	1.63	1.60	1.52	1.61	1.64	1.91	1.99	1.91
7800	1.72	1.73	1.74	1.67	1.57	1.62	1.64	1.92	2.01	1.92
7900	1.77	1.79	1.80	1.71	1.60	1.62	1.64	1.92	2.02	1.92
8000	1.82	1.84	1.85	1.75	1.63	1.62	1.64	1.92	2.02	1.92

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# Programmable Attenuator

# RC4DAT-8G-95

## Typical Performance Data @ 25°C

FREQUENCY (MHz)	Output VSWR (:1)									
	0.25 dB	1 dB	5 dB	10 dB	20 dB	40 dB	60 dB	80 dB	90 dB	95 dB
1	1.66	1.61	1.29	1.19	1.02	1.08	1.02	1.05	1.08	1.09
5	1.66	1.61	1.29	1.19	1.02	1.08	1.02	1.05	1.08	1.09
10	1.65	1.61	1.29	1.19	1.01	1.08	1.02	1.05	1.07	1.08
20	1.65	1.61	1.29	1.19	1.01	1.08	1.01	1.05	1.07	1.08
50	1.65	1.60	1.29	1.19	1.01	1.08	1.01	1.04	1.07	1.08
100	1.64	1.59	1.29	1.19	1.01	1.07	1.01	1.04	1.07	1.08
200	1.60	1.56	1.27	1.18	1.01	1.07	1.01	1.04	1.07	1.08
300	1.55	1.51	1.26	1.18	1.02	1.07	1.02	1.04	1.06	1.07
500	1.41	1.40	1.21	1.17	1.03	1.06	1.03	1.04	1.06	1.07
700	1.26	1.26	1.17	1.16	1.04	1.06	1.04	1.04	1.05	1.06
900	1.12	1.15	1.15	1.17	1.05	1.05	1.04	1.04	1.05	1.06
1000	1.08	1.11	1.15	1.17	1.05	1.05	1.05	1.04	1.05	1.05
1200	1.12	1.13	1.19	1.19	1.06	1.04	1.06	1.05	1.05	1.05
1400	1.19	1.17	1.22	1.22	1.07	1.04	1.06	1.05	1.04	1.04
1500	1.20	1.18	1.22	1.22	1.07	1.04	1.06	1.05	1.04	1.04
1600	1.20	1.18	1.23	1.23	1.07	1.04	1.06	1.05	1.04	1.04
1800	1.16	1.14	1.21	1.22	1.08	1.03	1.07	1.05	1.04	1.04
2000	1.08	1.08	1.19	1.22	1.08	1.03	1.07	1.06	1.05	1.04
2100	1.06	1.06	1.18	1.22	1.09	1.04	1.07	1.06	1.05	1.04
2200	1.08	1.08	1.18	1.22	1.09	1.04	1.07	1.06	1.05	1.04
2400	1.17	1.17	1.20	1.22	1.10	1.04	1.08	1.06	1.05	1.04
2500	1.23	1.22	1.22	1.23	1.10	1.04	1.08	1.06	1.05	1.04
2700	1.33	1.32	1.25	1.24	1.11	1.05	1.08	1.07	1.06	1.04
2800	1.38	1.37	1.27	1.25	1.11	1.05	1.08	1.07	1.06	1.05
3000	1.46	1.45	1.31	1.26	1.12	1.05	1.09	1.07	1.06	1.05
3100	1.50	1.49	1.32	1.27	1.12	1.05	1.09	1.07	1.07	1.05
3300	1.54	1.53	1.34	1.28	1.13	1.06	1.09	1.08	1.07	1.05
3400	1.54	1.53	1.34	1.28	1.13	1.06	1.09	1.08	1.07	1.06
3600	1.48	1.49	1.32	1.28	1.13	1.06	1.08	1.07	1.07	1.06
3700	1.42	1.44	1.30	1.27	1.13	1.06	1.08	1.07	1.07	1.06
3900	1.28	1.31	1.25	1.26	1.12	1.06	1.07	1.06	1.06	1.06
4000	1.22	1.26	1.23	1.25	1.12	1.06	1.06	1.05	1.06	1.05
4200	1.18	1.20	1.22	1.25	1.12	1.06	1.04	1.04	1.05	1.05
4300	1.19	1.20	1.22	1.25	1.11	1.06	1.03	1.03	1.04	1.05
4500	1.20	1.19	1.23	1.24	1.11	1.06	1.03	1.03	1.03	1.05
4600	1.19	1.18	1.22	1.24	1.11	1.06	1.04	1.03	1.03	1.06
4800	1.13	1.12	1.19	1.21	1.10	1.07	1.06	1.06	1.05	1.07
4900	1.12	1.10	1.18	1.20	1.09	1.08	1.08	1.07	1.06	1.08
5100	1.13	1.11	1.16	1.17	1.08	1.10	1.12	1.11	1.09	1.10
5200	1.13	1.12	1.15	1.15	1.07	1.11	1.14	1.13	1.11	1.12
5400	1.10	1.09	1.11	1.09	1.06	1.14	1.19	1.18	1.15	1.15
5500	1.07	1.07	1.08	1.07	1.06	1.15	1.21	1.20	1.17	1.17
5700	1.04	1.05	1.03	1.03	1.09	1.19	1.26	1.25	1.21	1.20
5800	1.04	1.04	1.04	1.05	1.11	1.20	1.29	1.27	1.24	1.22
6000	1.01	1.01	1.09	1.12	1.17	1.24	1.33	1.32	1.28	1.26
6100	1.05	1.04	1.13	1.16	1.21	1.26	1.36	1.34	1.31	1.28
6300	1.21	1.19	1.25	1.25	1.28	1.31	1.40	1.39	1.36	1.32
6400	1.31	1.29	1.31	1.30	1.32	1.33	1.42	1.40	1.38	1.34
6600	1.54	1.51	1.47	1.42	1.40	1.37	1.45	1.44	1.43	1.38
6700	1.58	1.56	1.51	1.45	1.42	1.38	1.46	1.45	1.45	1.39
6900	1.64	1.63	1.58	1.51	1.47	1.41	1.47	1.47	1.48	1.42
7000	1.64	1.64	1.60	1.54	1.49	1.43	1.47	1.48	1.49	1.43
7200	1.62	1.63	1.61	1.58	1.52	1.45	1.47	1.49	1.51	1.45
7300	1.61	1.63	1.62	1.59	1.53	1.46	1.46	1.49	1.52	1.46
7500	1.63	1.65	1.62	1.60	1.54	1.47	1.44	1.48	1.53	1.46
7600	1.66	1.67	1.62	1.61	1.54	1.47	1.42	1.47	1.53	1.46
7800	1.71	1.71	1.63	1.62	1.53	1.46	1.39	1.45	1.52	1.46
7900	1.71	1.70	1.62	1.62	1.53	1.46	1.37	1.44	1.52	1.45
8000	1.68	1.68	1.61	1.61	1.52	1.46	1.35	1.42	1.51	1.45

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# Programmable Attenuator

# RC4DAT-8G-95

## Typical Performance Data @ 25°C

FREQUENCY (MHz)	I. Loss (dB)	Cross-Over Isolation (dB)							
		In1-In2	In1-out2	Out1- In2	Out1- Out2	In3-In4	In3- Out4	Out3- In4	Out3- Out4
1	2.73	110.59	107.24	106.52	109.25	108.79	109.14	106.14	107.33
5	2.74	108.07	108.64	107.47	107.80	108.20	109.27	106.68	106.99
10	2.74	119.86	118.37	121.57	115.98	115.17	118.77	118.58	114.74
20	2.76	122.20	125.95	124.38	127.50	120.75	125.28	124.01	125.04
50	2.79	125.45	124.31	124.98	125.40	123.60	126.80	123.70	124.92
100	2.86	121.80	125.81	124.52	126.98	124.94	126.58	126.34	127.45
200	2.99	124.69	124.52	123.60	123.08	124.56	123.66	126.10	124.81
300	3.14	124.09	128.51	129.68	125.38	126.57	123.32	126.08	126.19
500	3.45	124.67	129.63	126.21	126.50	125.32	125.38	127.35	127.57
700	3.74	123.11	122.82	127.89	126.05	125.66	125.04	124.20	126.59
900	3.96	128.62	124.75	120.49	123.16	126.47	124.35	124.71	120.86
1000	4.03	125.63	124.11	125.16	125.02	123.30	127.42	123.93	126.65
1200	4.16	122.99	124.37	123.95	123.89	124.95	122.28	122.26	126.72
1400	4.29	123.05	128.48	124.16	123.57	120.30	126.69	125.90	124.94
1500	4.36	125.82	125.52	124.37	123.83	126.59	123.97	126.34	123.09
1600	4.44	126.10	121.79	123.18	126.51	123.97	122.99	123.21	128.75
1800	4.60	124.20	122.57	124.42	123.26	123.96	120.57	122.11	125.16
2000	4.76	124.00	120.08	120.00	127.12	122.07	125.44	122.46	125.65
2100	4.83	124.71	122.50	124.44	124.21	124.81	125.80	126.88	122.38
2200	4.90	123.19	122.46	121.76	123.88	126.26	123.56	124.89	123.93
2400	5.01	122.88	124.25	128.07	121.21	123.57	121.76	124.04	123.59
2500	5.07	126.99	122.86	124.53	123.57	123.28	123.78	121.87	122.93
2700	5.19	123.50	125.24	128.00	126.16	123.96	124.01	126.24	123.76
2800	5.26	121.90	124.30	124.04	121.17	122.88	123.24	124.00	123.47
3000	5.40	125.54	126.61	126.97	125.19	120.32	126.24	126.03	124.45
3100	5.48	124.09	126.68	122.98	123.51	125.38	125.23	123.12	122.32
3300	5.65	123.57	126.63	124.40	124.11	122.40	124.56	122.28	125.42
3400	5.75	123.51	125.66	124.34	124.92	123.21	122.44	124.52	121.76
3600	5.98	123.12	123.80	124.24	121.76	124.06	120.88	120.51	124.69
3700	6.12	123.61	124.53	125.24	123.96	124.50	125.40	123.87	120.34
3900	6.41	126.55	126.92	125.52	124.68	123.18	121.99	124.82	122.96
4000	6.57	124.21	125.03	122.41	123.39	121.37	122.94	128.72	128.05
4200	6.89	122.87	123.67	123.05	120.97	125.63	123.10	121.96	124.55
4300	7.05	121.64	122.94	121.21	122.61	124.23	123.01	121.72	124.09
4500	7.33	128.53	124.80	123.64	124.04	123.42	123.91	121.31	124.95
4600	7.46	122.80	124.56	125.77	122.97	120.44	125.61	122.68	122.59
4800	7.69	125.59	126.45	120.86	122.94	126.21	125.22	125.55	125.53
4900	7.80	124.67	122.70	125.00	125.18	124.28	124.17	126.11	120.70
5100	7.95	123.17	122.12	124.76	122.56	122.34	122.03	123.54	123.86
5200	7.99	125.08	125.04	120.76	120.88	123.75	124.32	124.56	122.49
5400	8.01	121.47	125.48	120.00	119.97	124.56	123.46	122.17	124.13
5500	8.01	122.36	120.35	124.33	120.73	125.38	121.89	125.35	125.18
5700	8.01	122.42	121.68	126.39	123.08	123.65	126.49	127.10	126.56
5800	8.01	119.97	123.66	126.39	121.08	121.77	124.19	123.69	123.51
6000	8.00	119.90	122.92	121.80	123.35	124.90	122.66	124.73	121.88
6100	8.01	126.14	128.33	120.05	119.28	123.79	126.48	121.70	126.22
6300	8.09	122.10	124.50	125.48	123.12	123.52	124.68	122.44	121.37
6400	8.19	123.71	123.51	121.34	121.38	120.02	125.08	118.73	122.44
6600	8.55	120.48	122.16	122.24	118.30	121.34	124.67	120.81	123.60
6700	8.67	121.39	119.73	119.55	119.35	122.04	122.15	121.51	121.38
6900	8.94	123.38	123.54	117.13	117.07	124.29	122.81	120.11	122.29
7000	9.07	123.77	122.40	118.94	117.64	121.95	122.73	123.48	123.77
7200	9.31	122.06	120.05	119.55	121.35	123.15	121.04	119.93	125.53
7300	9.42	121.34	121.36	117.20	118.56	119.45	120.15	118.71	127.22
7500	9.68	115.29	118.12	114.37	116.54	116.55	118.14	115.93	116.71
7600	9.82	111.35	113.27	111.93	113.00	110.13	112.73	120.54	118.07
7800	10.11	100.23	106.46	103.40	103.78	100.54	105.99	111.07	110.67
7900	10.25	96.41	102.72	100.02	100.42	97.56	102.76	103.26	103.20
8000	10.39	93.99	100.54	98.39	98.49	95.63	99.71	100.05	100.31

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# Programmable Attenuator

# RC4DAT-8G-95

## Typical Performance Data @ 25°C

FREQUENCY (MHz)	IP3 (dBm)
1	44.79
5	49.71
10	50.03
50	57.56
100	52.82
200	53.65
300	53.47
400	55.19
500	55.72
600	53.83
700	55.00
750	54.97
800	54.94
900	52.22
1000	54.25
1500	52.74
2000	53.33
2500	55.12
3000	55.11
3500	53.93
4000	52.06
4500	52.08
5000	51.58
5500	48.17
6000	48.12
6500	50.26
7000	48.60
7500	51.30
8000	47.20

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# Programmable Attenuator

# RC4DAT-8G-95

## Typical Performance Data @ 50°C

FREQUENCY (MHz)	Attenuation relative to Insertion Loss (dB)									
	0.25 dB	1 dB	5 dB	10 dB	20 dB	40 dB	60 dB	80 dB	90 dB	95 dB
1	0.29	1.07	5.17	9.98	19.86	39.26	58.83	78.14	88.56	93.21
5	0.29	1.07	5.17	9.98	19.86	39.25	58.83	78.11	88.05	92.78
10	0.29	1.07	5.17	9.98	19.86	39.25	58.83	78.16	87.82	92.35
20	0.29	1.07	5.17	9.98	19.86	39.26	58.85	78.31	87.88	92.62
50	0.29	1.07	5.16	9.98	19.85	39.25	58.83	78.34	87.89	92.71
100	0.29	1.06	5.16	9.97	19.85	39.24	58.83	78.34	87.88	92.55
200	0.28	1.05	5.12	9.92	19.79	39.18	58.77	78.25	87.78	92.49
300	0.28	1.04	5.06	9.84	19.70	39.08	58.67	78.16	87.82	92.50
500	0.27	1.00	4.95	9.69	19.52	38.90	58.48	77.95	87.45	92.14
700	0.26	0.98	4.86	9.57	19.38	38.74	58.33	77.81	87.30	92.02
900	0.25	0.97	4.82	9.51	19.31	38.67	58.27	77.74	87.22	92.02
1000	0.25	0.97	4.82	9.51	19.30	38.67	58.26	77.75	87.43	92.11
1200	0.25	0.97	4.84	9.53	19.32	38.68	58.29	77.83	87.43	92.01
1400	0.25	0.98	4.87	9.55	19.34	38.72	58.34	77.86	87.47	92.10
1500	0.25	0.98	4.87	9.56	19.35	38.73	58.36	77.92	87.47	92.34
1600	0.25	0.98	4.88	9.55	19.35	38.74	58.38	77.96	87.65	92.21
1800	0.25	0.98	4.87	9.54	19.35	38.75	58.42	78.09	87.66	92.38
2000	0.24	0.98	4.87	9.53	19.35	38.77	58.47	78.17	87.81	92.27
2100	0.24	0.98	4.87	9.53	19.35	38.79	58.52	78.22	87.85	92.61
2200	0.24	0.99	4.88	9.54	19.37	38.82	58.56	78.29	88.02	92.64
2400	0.25	1.00	4.91	9.59	19.44	38.91	58.69	78.45	88.28	93.07
2500	0.25	1.00	4.94	9.62	19.49	38.97	58.78	78.57	88.49	92.97
2700	0.25	1.02	4.99	9.69	19.59	39.10	58.95	78.88	88.42	93.19
2800	0.26	1.02	5.02	9.73	19.63	39.16	59.04	78.98	88.77	93.36
3000	0.26	1.03	5.05	9.77	19.71	39.26	59.20	79.21	89.07	93.84
3100	0.26	1.03	5.06	9.78	19.73	39.29	59.27	79.28	88.95	93.91
3300	0.27	1.03	5.06	9.79	19.75	39.34	59.38	79.45	89.40	94.16
3400	0.27	1.02	5.06	9.78	19.76	39.35	59.42	79.58	89.43	94.17
3600	0.27	1.01	5.04	9.76	19.75	39.37	59.52	79.71	89.51	94.06
3700	0.27	1.01	5.03	9.75	19.76	39.39	59.56	79.82	89.76	94.68
3900	0.27	1.00	5.02	9.74	19.76	39.42	59.67	80.05	90.05	94.49
4000	0.27	1.00	5.01	9.73	19.76	39.43	59.72	80.14	90.29	94.66
4200	0.27	1.00	5.01	9.72	19.78	39.48	59.84	80.35	90.29	95.43
4300	0.27	0.99	5.00	9.72	19.79	39.50	59.91	80.35	90.42	95.67
4500	0.27	0.99	5.00	9.72	19.81	39.56	60.05	80.71	90.78	95.80
4600	0.27	0.99	5.00	9.72	19.83	39.60	60.14	80.76	90.97	95.83
4800	0.26	1.00	5.01	9.73	19.87	39.68	60.33	81.00	91.19	96.17
4900	0.26	1.00	5.01	9.73	19.90	39.73	60.43	81.22	91.56	96.51
5100	0.26	1.01	5.02	9.75	19.95	39.84	60.63	81.50	91.55	96.96
5200	0.26	1.01	5.02	9.75	19.98	39.90	60.74	81.64	91.97	96.59
5400	0.26	1.01	5.02	9.77	20.03	40.01	60.97	81.86	91.93	97.78
5500	0.26	1.01	5.03	9.78	20.06	40.07	61.08	82.03	92.15	97.97
5700	0.27	1.02	5.05	9.82	20.15	40.22	61.34	82.50	92.27	97.02
5800	0.27	1.02	5.07	9.86	20.20	40.31	61.46	82.61	92.52	97.80
6000	0.28	1.03	5.13	9.95	20.33	40.48	61.74	82.80	93.22	98.26
6100	0.29	1.03	5.16	9.99	20.39	40.56	61.86	82.94	92.81	98.42
6300	0.30	1.03	5.18	10.03	20.45	40.65	62.03	83.19	93.39	97.98
6400	0.31	1.03	5.17	10.02	20.45	40.66	62.06	83.18	93.46	97.84
6600	0.31	1.01	5.11	9.95	20.37	40.62	62.03	83.19	93.12	98.25
6700	0.30	1.00	5.10	9.93	20.36	40.61	62.02	83.15	93.17	98.18
6900	0.30	0.99	5.08	9.91	20.33	40.60	62.02	83.06	93.29	98.75
7000	0.30	0.99	5.08	9.91	20.34	40.62	62.04	83.10	93.26	98.90
7200	0.29	1.00	5.11	9.94	20.39	40.69	62.06	83.10	93.07	98.91
7300	0.29	1.01	5.13	9.96	20.42	40.73	62.08	83.04	92.91	98.71
7500	0.29	1.02	5.16	9.99	20.47	40.81	62.06	82.92	93.10	97.88
7600	0.29	1.02	5.17	10.00	20.50	40.83	62.05	82.83	92.96	97.47
7800	0.29	1.03	5.19	10.02	20.54	40.88	61.99	82.69	93.04	97.59
7900	0.30	1.04	5.21	10.04	20.57	40.91	61.96	82.57	92.96	97.36
8000	0.30	1.05	5.24	10.07	20.62	40.94	61.94	82.47	93.05	97.10

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# Programmable Attenuator

# RC4DAT-8G-95

## Typical Performance Data @ 50°C

FREQUENCY (MHz)	Attenuation accuracy relative to nominal attenuation setting (dB)									
	0.25 dB	1 dB	5 dB	10 dB	20 dB	40 dB	60 dB	80 dB	90 dB	95 dB
1	-0.04	-0.07	-0.17	0.02	0.14	0.74	1.17	1.86	1.45	1.79
5	-0.04	-0.07	-0.17	0.02	0.14	0.75	1.17	1.89	1.95	2.22
10	-0.04	-0.07	-0.17	0.02	0.14	0.75	1.17	1.84	2.18	2.65
20	-0.04	-0.07	-0.17	0.02	0.14	0.74	1.15	1.69	2.12	2.38
50	-0.04	-0.07	-0.16	0.02	0.15	0.75	1.17	1.66	2.11	2.29
100	-0.04	-0.06	-0.16	0.03	0.15	0.76	1.17	1.66	2.12	2.45
200	-0.03	-0.05	-0.12	0.08	0.21	0.82	1.23	1.75	2.22	2.51
300	-0.03	-0.03	-0.06	0.16	0.30	0.92	1.33	1.84	2.18	2.50
500	-0.02	0.00	0.05	0.31	0.48	1.11	1.52	2.05	2.55	2.86
700	-0.01	0.02	0.14	0.43	0.62	1.26	1.67	2.19	2.70	2.98
900	0.00	0.04	0.18	0.49	0.69	1.33	1.73	2.26	2.78	2.98
1000	0.00	0.03	0.18	0.49	0.70	1.33	1.74	2.25	2.57	2.89
1200	0.00	0.03	0.16	0.47	0.68	1.32	1.71	2.17	2.57	2.99
1400	0.00	0.02	0.13	0.45	0.66	1.28	1.66	2.14	2.53	2.90
1500	0.00	0.02	0.13	0.44	0.65	1.27	1.64	2.08	2.53	2.66
1600	0.00	0.02	0.13	0.45	0.65	1.26	1.62	2.04	2.35	2.79
1800	0.00	0.02	0.13	0.46	0.65	1.25	1.58	1.91	2.34	2.62
2000	0.01	0.02	0.14	0.47	0.66	1.23	1.53	1.83	2.19	2.73
2100	0.01	0.02	0.13	0.47	0.65	1.21	1.48	1.78	2.15	2.39
2200	0.01	0.01	0.13	0.46	0.63	1.18	1.44	1.71	1.98	2.36
2400	0.00	0.00	0.09	0.41	0.56	1.09	1.31	1.55	1.72	1.93
2500	0.00	0.00	0.07	0.38	0.51	1.03	1.22	1.43	1.51	2.03
2700	0.00	-0.01	0.01	0.31	0.41	0.90	1.05	1.12	1.58	1.81
2800	0.00	-0.02	-0.01	0.27	0.37	0.84	0.96	1.02	1.23	1.64
3000	-0.01	-0.03	-0.05	0.23	0.29	0.74	0.80	0.79	0.93	1.16
3100	-0.01	-0.03	-0.06	0.22	0.27	0.71	0.73	0.72	1.05	1.09
3300	-0.01	-0.03	-0.06	0.21	0.25	0.66	0.63	0.55	0.60	0.85
3400	-0.02	-0.02	-0.05	0.22	0.24	0.65	0.58	0.43	0.57	0.83
3600	-0.02	-0.01	-0.04	0.24	0.25	0.63	0.48	0.29	0.49	0.94
3700	-0.02	-0.01	-0.03	0.25	0.25	0.62	0.44	0.18	0.24	0.32
3900	-0.02	0.00	-0.02	0.26	0.24	0.58	0.33	-0.05	-0.05	0.51
4000	-0.01	0.00	-0.01	0.27	0.24	0.57	0.28	-0.14	-0.29	0.34
4200	-0.02	0.00	-0.01	0.28	0.22	0.52	0.17	-0.35	-0.29	-0.43
4300	-0.02	0.01	0.00	0.28	0.21	0.50	0.09	-0.35	-0.42	-0.67
4500	-0.02	0.01	0.00	0.28	0.19	0.44	-0.05	-0.71	-0.78	-0.80
4600	-0.01	0.01	0.00	0.28	0.17	0.40	-0.13	-0.76	-0.97	-0.82
4800	-0.01	0.00	-0.01	0.27	0.13	0.32	-0.33	-1.00	-1.19	-1.17
4900	-0.01	0.00	-0.01	0.27	0.10	0.27	-0.43	-1.22	-1.56	-1.51
5100	-0.01	-0.01	-0.02	0.25	0.05	0.16	-0.63	-1.50	-1.55	-1.96
5200	-0.01	-0.01	-0.02	0.25	0.02	0.10	-0.74	-1.64	-1.97	-1.59
5400	-0.01	-0.01	-0.02	0.23	-0.03	-0.01	-0.97	-1.86	-1.93	-2.78
5500	-0.01	-0.01	-0.03	0.22	-0.06	-0.07	-1.08	-2.03	-2.15	-2.97
5700	-0.02	-0.01	-0.05	0.18	-0.15	-0.22	-1.34	-2.50	-2.27	-2.02
5800	-0.02	-0.02	-0.07	0.14	-0.20	-0.31	-1.46	-2.61	-2.52	-2.80
6000	-0.03	-0.03	-0.13	0.05	-0.33	-0.48	-1.74	-2.80	-3.22	-3.26
6100	-0.04	-0.03	-0.16	0.01	-0.39	-0.56	-1.86	-2.94	-2.81	-3.42
6300	-0.05	-0.03	-0.18	-0.03	-0.45	-0.65	-2.03	-3.19	-3.39	-2.97
6400	-0.06	-0.03	-0.17	-0.02	-0.45	-0.66	-2.06	-3.18	-3.46	-2.84
6600	-0.06	0.00	-0.11	0.05	-0.37	-0.62	-2.03	-3.19	-3.12	-3.25
6700	-0.05	0.00	-0.09	0.07	-0.36	-0.61	-2.02	-3.15	-3.17	-3.18
6900	-0.05	0.01	-0.08	0.10	-0.33	-0.60	-2.02	-3.06	-3.29	-3.75
7000	-0.05	0.01	-0.08	0.09	-0.34	-0.62	-2.04	-3.10	-3.26	-3.89
7200	-0.04	0.00	-0.11	0.06	-0.39	-0.69	-2.06	-3.10	-3.07	-3.91
7300	-0.04	-0.01	-0.13	0.04	-0.42	-0.73	-2.08	-3.04	-2.91	-3.71
7500	-0.04	-0.02	-0.16	0.01	-0.47	-0.81	-2.06	-2.92	-3.10	-2.88
7600	-0.04	-0.02	-0.17	0.00	-0.50	-0.83	-2.05	-2.83	-2.96	-2.47
7800	-0.04	-0.03	-0.19	-0.02	-0.54	-0.88	-1.99	-2.69	-3.04	-2.59
7900	-0.05	-0.04	-0.21	-0.04	-0.57	-0.91	-1.96	-2.57	-2.96	-2.36
8000	-0.05	-0.05	-0.24	-0.07	-0.62	-0.94	-1.94	-2.47	-3.05	-2.10

**Notes**

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# Programmable Attenuator

# RC4DAT-8G-95

## Typical Performance Data @ 50°C

FREQUENCY (MHz)	Input VSWR (:1)									
	0.25 dB	1 dB	5 dB	10 dB	20 dB	40 dB	60 dB	80 dB	90 dB	95 dB
1	1.69	1.58	1.41	1.22	1.16	1.08	1.02	1.07	1.07	1.08
5	1.69	1.58	1.40	1.22	1.16	1.08	1.01	1.07	1.07	1.08
10	1.69	1.58	1.40	1.22	1.16	1.08	1.00	1.07	1.06	1.08
20	1.69	1.58	1.40	1.22	1.16	1.08	1.00	1.06	1.06	1.07
50	1.68	1.57	1.40	1.21	1.16	1.08	1.00	1.06	1.06	1.07
100	1.67	1.56	1.39	1.21	1.15	1.07	1.00	1.07	1.06	1.08
200	1.61	1.52	1.37	1.20	1.15	1.07	1.00	1.07	1.06	1.08
300	1.55	1.46	1.34	1.19	1.15	1.07	1.01	1.06	1.06	1.07
500	1.40	1.34	1.29	1.17	1.15	1.08	1.01	1.06	1.06	1.07
700	1.24	1.21	1.22	1.15	1.14	1.08	1.02	1.05	1.05	1.06
900	1.11	1.10	1.17	1.12	1.13	1.08	1.02	1.05	1.05	1.06
1000	1.07	1.08	1.15	1.11	1.13	1.08	1.02	1.05	1.05	1.06
1200	1.08	1.11	1.13	1.10	1.13	1.08	1.03	1.05	1.05	1.06
1400	1.13	1.15	1.13	1.09	1.12	1.08	1.03	1.04	1.05	1.05
1500	1.15	1.16	1.13	1.08	1.12	1.08	1.03	1.04	1.05	1.05
1600	1.15	1.16	1.13	1.08	1.12	1.08	1.03	1.04	1.06	1.05
1800	1.12	1.13	1.11	1.08	1.12	1.08	1.03	1.05	1.06	1.06
2000	1.08	1.09	1.11	1.09	1.13	1.08	1.03	1.05	1.07	1.06
2100	1.07	1.08	1.11	1.09	1.13	1.08	1.03	1.05	1.07	1.06
2200	1.09	1.09	1.12	1.10	1.13	1.08	1.03	1.05	1.07	1.07
2400	1.16	1.14	1.16	1.12	1.14	1.08	1.04	1.06	1.08	1.07
2500	1.21	1.18	1.18	1.14	1.15	1.09	1.04	1.06	1.09	1.07
2700	1.30	1.26	1.24	1.16	1.16	1.09	1.05	1.06	1.09	1.08
2800	1.34	1.30	1.26	1.17	1.16	1.09	1.05	1.07	1.10	1.08
3000	1.41	1.36	1.30	1.20	1.18	1.10	1.06	1.07	1.10	1.08
3100	1.43	1.38	1.32	1.21	1.18	1.10	1.06	1.07	1.10	1.08
3300	1.43	1.39	1.33	1.22	1.19	1.11	1.07	1.07	1.10	1.08
3400	1.42	1.39	1.33	1.22	1.19	1.11	1.07	1.06	1.10	1.07
3600	1.37	1.35	1.32	1.22	1.20	1.12	1.07	1.06	1.10	1.07
3700	1.33	1.32	1.31	1.21	1.20	1.12	1.07	1.05	1.09	1.06
3900	1.26	1.26	1.28	1.20	1.21	1.12	1.08	1.04	1.08	1.05
4000	1.21	1.23	1.26	1.19	1.21	1.12	1.08	1.03	1.08	1.04
4200	1.15	1.18	1.23	1.18	1.21	1.13	1.08	1.02	1.06	1.02
4300	1.14	1.17	1.21	1.18	1.21	1.13	1.09	1.01	1.05	1.01
4500	1.17	1.18	1.20	1.18	1.22	1.13	1.10	1.02	1.03	1.01
4600	1.20	1.20	1.20	1.18	1.22	1.13	1.10	1.03	1.02	1.03
4800	1.25	1.24	1.20	1.19	1.21	1.14	1.11	1.06	1.04	1.06
4900	1.26	1.24	1.20	1.19	1.21	1.14	1.12	1.08	1.06	1.07
5100	1.24	1.22	1.19	1.19	1.20	1.15	1.14	1.12	1.10	1.11
5200	1.22	1.20	1.18	1.19	1.20	1.16	1.15	1.14	1.12	1.14
5400	1.17	1.15	1.16	1.17	1.18	1.18	1.18	1.19	1.17	1.18
5500	1.16	1.15	1.16	1.17	1.17	1.19	1.19	1.21	1.20	1.21
5700	1.17	1.16	1.16	1.16	1.17	1.22	1.22	1.27	1.26	1.26
5800	1.17	1.17	1.15	1.16	1.17	1.24	1.24	1.30	1.29	1.29
6000	1.15	1.15	1.14	1.16	1.18	1.28	1.28	1.36	1.36	1.36
6100	1.11	1.12	1.13	1.16	1.19	1.30	1.31	1.39	1.40	1.39
6300	1.07	1.09	1.13	1.19	1.23	1.35	1.36	1.46	1.48	1.46
6400	1.11	1.12	1.14	1.21	1.24	1.37	1.38	1.50	1.51	1.49
6600	1.27	1.25	1.23	1.28	1.29	1.43	1.44	1.59	1.62	1.58
6700	1.31	1.28	1.25	1.30	1.31	1.45	1.46	1.61	1.64	1.61
6900	1.39	1.36	1.32	1.36	1.35	1.49	1.50	1.68	1.72	1.67
7000	1.41	1.39	1.35	1.39	1.37	1.51	1.52	1.71	1.76	1.71
7200	1.44	1.43	1.42	1.44	1.41	1.55	1.57	1.78	1.84	1.77
7300	1.46	1.45	1.46	1.47	1.44	1.58	1.59	1.81	1.88	1.81
7500	1.53	1.54	1.55	1.53	1.49	1.61	1.62	1.87	1.95	1.86
7600	1.58	1.59	1.60	1.57	1.52	1.63	1.64	1.89	1.98	1.89
7800	1.71	1.73	1.73	1.66	1.59	1.66	1.67	1.93	2.03	1.93
7900	1.77	1.79	1.79	1.71	1.63	1.67	1.68	1.95	2.05	1.95
8000	1.83	1.85	1.86	1.76	1.67	1.68	1.69	1.96	2.07	1.96

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# Programmable Attenuator

# RC4DAT-8G-95

## Typical Performance Data @ 50°C

FREQUENCY (MHz)	Output VSWR (:1)									
	0.25 dB	1 dB	5 dB	10 dB	20 dB	40 dB	60 dB	80 dB	90 dB	95 dB
1	1.69	1.65	1.34	1.24	1.05	1.05	1.04	1.02	1.04	1.05
5	1.69	1.65	1.34	1.23	1.05	1.04	1.03	1.02	1.04	1.05
10	1.69	1.65	1.33	1.23	1.05	1.04	1.03	1.01	1.04	1.05
20	1.69	1.65	1.33	1.23	1.04	1.04	1.03	1.01	1.03	1.04
50	1.68	1.64	1.33	1.23	1.04	1.04	1.02	1.01	1.03	1.05
100	1.67	1.63	1.32	1.22	1.04	1.04	1.02	1.01	1.03	1.04
200	1.62	1.59	1.31	1.22	1.04	1.04	1.03	1.02	1.04	1.05
300	1.57	1.54	1.29	1.22	1.05	1.04	1.04	1.02	1.03	1.04
500	1.42	1.42	1.25	1.20	1.06	1.03	1.05	1.03	1.03	1.04
700	1.27	1.28	1.20	1.20	1.07	1.03	1.06	1.04	1.03	1.03
900	1.14	1.17	1.18	1.19	1.08	1.03	1.07	1.05	1.04	1.03
1000	1.11	1.14	1.17	1.20	1.08	1.03	1.08	1.05	1.04	1.03
1200	1.13	1.13	1.19	1.21	1.08	1.03	1.08	1.06	1.04	1.03
1400	1.18	1.17	1.21	1.22	1.08	1.03	1.09	1.06	1.04	1.03
1500	1.20	1.18	1.22	1.23	1.09	1.03	1.09	1.06	1.04	1.03
1600	1.20	1.18	1.22	1.23	1.09	1.03	1.09	1.06	1.04	1.03
1800	1.17	1.15	1.20	1.22	1.09	1.03	1.09	1.06	1.05	1.03
2000	1.10	1.09	1.18	1.22	1.09	1.04	1.09	1.07	1.05	1.04
2100	1.07	1.07	1.17	1.21	1.10	1.04	1.09	1.07	1.05	1.04
2200	1.07	1.08	1.17	1.21	1.10	1.04	1.09	1.07	1.06	1.04
2400	1.16	1.17	1.19	1.22	1.11	1.05	1.10	1.08	1.06	1.05
2500	1.23	1.23	1.21	1.23	1.11	1.05	1.10	1.08	1.06	1.05
2700	1.36	1.35	1.27	1.25	1.13	1.06	1.10	1.08	1.07	1.05
2800	1.42	1.41	1.29	1.26	1.13	1.06	1.11	1.09	1.07	1.06
3000	1.51	1.50	1.34	1.29	1.14	1.07	1.11	1.09	1.08	1.06
3100	1.54	1.52	1.35	1.30	1.15	1.07	1.11	1.09	1.08	1.07
3300	1.54	1.54	1.36	1.31	1.15	1.08	1.11	1.10	1.09	1.07
3400	1.52	1.52	1.36	1.31	1.16	1.08	1.11	1.10	1.09	1.08
3600	1.46	1.47	1.34	1.31	1.16	1.09	1.11	1.10	1.10	1.09
3700	1.41	1.43	1.33	1.30	1.16	1.09	1.11	1.10	1.10	1.09
3900	1.32	1.35	1.29	1.29	1.16	1.10	1.10	1.09	1.10	1.09
4000	1.28	1.31	1.28	1.29	1.16	1.10	1.09	1.09	1.10	1.09
4200	1.21	1.23	1.25	1.27	1.15	1.10	1.08	1.07	1.09	1.09
4300	1.19	1.20	1.24	1.27	1.15	1.10	1.07	1.07	1.08	1.09
4500	1.17	1.17	1.22	1.25	1.14	1.10	1.05	1.05	1.07	1.09
4600	1.17	1.16	1.21	1.24	1.13	1.10	1.05	1.05	1.06	1.09
4800	1.18	1.15	1.20	1.22	1.12	1.10	1.06	1.06	1.06	1.09
4900	1.17	1.15	1.19	1.20	1.12	1.11	1.07	1.07	1.07	1.10
5100	1.13	1.12	1.16	1.16	1.10	1.11	1.11	1.10	1.08	1.11
5200	1.11	1.11	1.14	1.13	1.09	1.12	1.14	1.12	1.10	1.12
5400	1.08	1.09	1.09	1.07	1.08	1.14	1.18	1.17	1.13	1.15
5500	1.08	1.08	1.06	1.04	1.08	1.15	1.21	1.19	1.15	1.16
5700	1.07	1.07	1.01	1.02	1.10	1.18	1.26	1.24	1.20	1.19
5800	1.05	1.05	1.02	1.06	1.12	1.20	1.29	1.27	1.23	1.21
6000	1.02	1.02	1.10	1.13	1.17	1.23	1.34	1.31	1.27	1.25
6100	1.08	1.07	1.15	1.18	1.21	1.26	1.36	1.34	1.30	1.27
6300	1.25	1.24	1.27	1.28	1.28	1.30	1.41	1.39	1.35	1.31
6400	1.36	1.34	1.34	1.33	1.32	1.32	1.42	1.40	1.37	1.33
6600	1.57	1.55	1.50	1.45	1.40	1.36	1.45	1.44	1.42	1.37
6700	1.61	1.59	1.53	1.48	1.42	1.37	1.46	1.45	1.44	1.38
6900	1.66	1.65	1.59	1.54	1.47	1.39	1.46	1.46	1.46	1.40
7000	1.66	1.66	1.61	1.56	1.48	1.40	1.46	1.47	1.47	1.41
7200	1.63	1.65	1.63	1.59	1.51	1.42	1.45	1.47	1.49	1.42
7300	1.62	1.64	1.63	1.60	1.52	1.43	1.45	1.47	1.50	1.43
7500	1.63	1.64	1.63	1.61	1.52	1.44	1.43	1.46	1.51	1.44
7600	1.65	1.66	1.63	1.62	1.52	1.44	1.41	1.46	1.51	1.44
7800	1.68	1.68	1.62	1.62	1.51	1.44	1.38	1.44	1.51	1.44
7900	1.68	1.67	1.61	1.62	1.51	1.44	1.36	1.42	1.50	1.43
8000	1.65	1.65	1.60	1.61	1.50	1.43	1.34	1.41	1.49	1.43

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# Programmable Attenuator

# RC4DAT-8G-95

## Typical Performance Data @ 50°C

FREQUENCY (MHz)	I. Loss (dB)	Cross-Over Isolation (dB)			
		In1-In2	In1-out2	Out1- In2	Out1- Out2
1	2.85	107.92	108.96	113.80	109.49
5	2.85	107.95	107.79	109.98	110.91
10	2.86	118.12	114.66	115.36	118.25
20	2.87	126.89	123.53	124.50	123.19
50	2.89	123.89	126.88	124.71	122.44
100	2.96	124.43	126.38	127.51	126.63
200	3.10	126.48	124.01	126.85	126.26
300	3.27	126.13	124.29	122.84	124.71
500	3.60	127.62	127.05	126.01	125.39
700	3.89	125.16	127.12	123.07	124.96
900	4.10	125.58	125.61	123.33	124.63
1000	4.18	124.99	127.42	127.43	123.38
1200	4.31	125.64	126.54	126.41	123.44
1400	4.43	120.93	123.88	123.93	125.05
1500	4.49	125.29	125.13	123.75	126.34
1600	4.57	123.84	125.65	125.55	124.06
1800	4.72	123.21	126.01	125.89	122.08
2000	4.87	125.02	125.97	123.45	125.39
2100	4.94	122.45	122.99	123.29	123.43
2200	5.00	122.65	126.12	127.02	124.64
2400	5.09	124.12	122.50	121.04	123.43
2500	5.12	124.35	122.68	126.77	126.52
2700	5.20	122.95	126.36	122.07	120.72
2800	5.24	123.78	123.83	122.46	123.31
3000	5.35	128.01	124.97	125.23	120.62
3100	5.43	122.96	127.23	124.25	121.94
3300	5.61	124.40	123.55	122.61	121.30
3400	5.71	127.32	125.83	125.28	123.28
3600	5.92	122.31	124.43	121.89	122.18
3700	6.03	124.26	125.20	127.81	124.93
3900	6.24	124.38	127.28	121.02	123.35
4000	6.35	121.30	121.49	123.38	123.89
4200	6.57	123.77	126.85	124.24	121.72
4300	6.67	122.23	123.77	122.44	119.69
4500	6.86	124.06	123.20	124.28	126.82
4600	6.96	124.72	122.59	124.26	122.44
4800	7.13	124.94	123.94	122.81	123.22
4900	7.20	121.37	123.78	123.97	127.00
5100	7.34	121.29	123.46	123.57	121.62
5200	7.41	121.88	124.20	122.32	124.15
5400	7.54	124.22	124.85	122.15	121.50
5500	7.60	122.62	121.78	123.31	119.80
5700	7.71	120.11	123.77	122.24	122.50
5800	7.76	123.83	123.83	123.85	120.92
6000	7.84	125.15	122.51	121.76	121.45
6100	7.89	124.24	124.12	120.95	120.51
6300	8.07	119.87	123.40	122.31	120.66
6400	8.21	123.53	124.75	120.65	121.94
6600	8.63	121.32	124.10	124.29	121.35
6700	8.75	120.89	127.34	122.10	118.73
6900	9.05	118.67	124.80	117.84	118.67
7000	9.20	118.34	125.04	118.88	120.74
7200	9.46	121.07	124.00	120.51	121.53
7300	9.59	120.23	125.50	120.51	117.75
7500	9.87	116.23	120.85	115.86	114.74
7600	10.02	112.17	116.63	114.32	112.58
7800	10.33	101.92	107.93	106.09	107.02
7900	10.48	98.39	104.45	102.27	101.87
8000	10.62	95.77	102.58	100.25	99.95

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



# Programmable Attenuator

# RC4DAT-8G-95

## Typical Performance Data @ 50°C

FREQUENCY (MHz)	IP3 (dBm)
1	42.81
5	51.11
10	51.91
50	51.42
100	51.00
200	52.64
300	53.55
400	55.60
500	55.60
600	55.40
700	54.19
750	54.07
800	53.94
900	53.54
1000	54.46
1500	54.45
2000	54.45
2500	55.38
3000	54.63
3500	51.75
4000	51.07
4500	49.07
5000	52.48
5500	47.31
6000	47.65
6500	47.71
7000	50.48
7500	51.49
8000	46.56

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

