

# Programmable Attenuator RCDAT-8000-90

## Typical Performance Data @ 0°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
1	0.30	10.08	14.94	29.31	43.95	58.39	73.24	87.69
5	0.30	10.08	14.94	29.31	43.95	58.39	73.26	87.45
10	0.30	10.08	14.94	29.31	43.95	58.38	73.26	87.25
20	0.30	10.08	14.94	29.30	43.94	58.38	73.28	87.36
50	0.30	10.06	14.92	29.28	43.92	58.36	73.25	87.35
100	0.30	10.06	14.91	29.28	43.91	58.35	73.24	87.33
200	0.30	10.03	14.88	29.25	43.88	58.31	73.20	87.29
500	0.29	9.94	14.77	29.15	43.77	58.20	73.07	87.24
750	0.29	9.84	14.65	29.05	43.66	58.07	73.00	87.02
1000	0.28	9.81	14.59	29.04	43.63	58.03	72.98	87.06
1500	0.28	9.85	14.62	29.14	43.73	58.12	73.17	87.29
2000	0.27	9.85	14.65	29.19	43.88	58.33	73.43	87.59
2500	0.29	10.01	14.87	29.46	44.26	58.86	73.96	88.14
3000	0.29	9.98	14.82	29.61	44.41	59.16	74.20	88.60
3500	0.28	9.77	14.55	29.57	44.35	59.18	74.27	88.89
4000	0.28	9.82	14.61	29.78	44.65	59.57	74.80	89.44
4500	0.28	9.92	14.76	30.07	45.04	60.07	75.41	90.33
5000	0.29	10.00	14.92	30.32	45.39	60.55	76.15	91.04
5500	0.31	10.10	15.10	30.60	45.79	61.09	76.78	92.08
6000	0.32	10.23	15.23	30.95	46.23	61.77	77.30	92.33
7000	0.31	9.88	14.84	30.82	45.97	61.54	77.06	92.27
7500	0.32	10.13	15.30	30.98	46.13	61.36	76.93	91.12
8000	0.33	10.33	15.60	30.86	45.94	60.72	76.14	89.37

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
1	-0.05	-0.08	0.06	0.69	1.05	1.61	1.76	2.31
5	-0.05	-0.08	0.06	0.69	1.05	1.61	1.74	2.55
10	-0.05	-0.08	0.06	0.69	1.05	1.62	1.74	2.75
20	-0.05	-0.08	0.06	0.70	1.06	1.62	1.72	2.64
50	-0.05	-0.06	0.08	0.72	1.08	1.64	1.75	2.65
100	-0.05	-0.06	0.09	0.72	1.09	1.65	1.76	2.68
200	-0.05	-0.03	0.12	0.75	1.12	1.69	1.80	2.71
500	-0.04	0.06	0.23	0.85	1.23	1.80	1.93	2.76
750	-0.04	0.16	0.35	0.95	1.34	1.93	2.00	2.98
1000	-0.03	0.19	0.41	0.97	1.38	1.97	2.02	2.94
1500	-0.03	0.15	0.38	0.86	1.27	1.88	1.83	2.71
2000	-0.02	0.15	0.35	0.81	1.12	1.67	1.57	2.41
2500	-0.04	-0.01	0.13	0.54	0.74	1.14	1.04	1.86
3000	-0.04	0.02	0.18	0.39	0.59	0.84	0.80	1.40
3500	-0.03	0.23	0.45	0.43	0.65	0.82	0.73	1.11
4000	-0.03	0.19	0.39	0.22	0.35	0.43	0.20	0.56
4500	-0.03	0.09	0.24	-0.07	-0.04	-0.07	-0.41	-0.33
5000	-0.04	0.01	0.09	-0.32	-0.39	-0.55	-1.15	-1.04
5500	-0.06	-0.10	-0.10	-0.60	-0.79	-1.09	-1.78	-2.08
6000	-0.07	-0.23	-0.23	-0.95	-1.23	-1.77	-2.30	-2.33
7000	-0.06	0.12	0.16	-0.82	-0.97	-1.54	-2.06	-2.27
7500	-0.07	-0.13	-0.30	-0.98	-1.13	-1.36	-1.93	-1.12
8000	-0.07	-0.33	-0.60	-0.86	-0.94	-0.72	-1.14	0.63

**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)



# Programmable Attenuator RCDAT-8000-90

## Typical Performance Data @ 0°C

FREQUENCY (MHz)	Input VSWR (:1)							
	0.25 dB	10 dB	15 dB	30 dB	45 dB	60 dB	75 dB	90 dB
1	1.69	1.17	1.14	1.03	1.03	1.03	1.03	1.03
5	1.69	1.17	1.14	1.02	1.02	1.02	1.02	1.02
10	1.69	1.17	1.14	1.02	1.02	1.02	1.02	1.02
20	1.69	1.16	1.13	1.01	1.01	1.01	1.01	1.01
50	1.68	1.17	1.14	1.01	1.01	1.01	1.01	1.01
100	1.67	1.17	1.14	1.00	1.00	1.00	1.00	1.00
200	1.63	1.17	1.15	1.01	1.01	1.01	1.01	1.01
500	1.40	1.12	1.11	1.01	1.02	1.02	1.02	1.02
750	1.21	1.09	1.10	1.01	1.02	1.02	1.02	1.02
1000	1.11	1.08	1.09	1.02	1.02	1.02	1.02	1.02
1500	1.18	1.07	1.08	1.03	1.03	1.03	1.03	1.03
2000	1.11	1.06	1.07	1.07	1.05	1.05	1.05	1.05
2500	1.27	1.07	1.08	1.11	1.08	1.08	1.08	1.08
3000	1.47	1.13	1.11	1.14	1.10	1.10	1.10	1.10
3500	1.34	1.13	1.12	1.16	1.11	1.11	1.11	1.11
4000	1.11	1.11	1.11	1.17	1.11	1.11	1.11	1.12
4500	1.14	1.11	1.11	1.17	1.11	1.11	1.11	1.11
5000	1.15	1.11	1.12	1.15	1.09	1.09	1.09	1.09
5500	1.25	1.11	1.10	1.10	1.04	1.04	1.04	1.04
6000	1.21	1.04	1.04	1.13	1.11	1.11	1.11	1.11
7000	1.63	1.30	1.29	1.47	1.42	1.42	1.42	1.42
7500	1.48	1.38	1.40	1.68	1.60	1.60	1.60	1.60
8000	1.44	1.42	1.42	1.80	1.68	1.68	1.68	1.68

FREQUENCY (MHz)	Output VSWR (:1)							
	0.25 dB	10 dB	15 dB	30 dB	45 dB	60 dB	75 dB	90 dB
1	1.69	1.23	1.14	1.23	1.03	1.04	1.06	1.06
5	1.69	1.23	1.14	1.23	1.03	1.03	1.05	1.05
10	1.69	1.22	1.14	1.22	1.03	1.03	1.05	1.05
20	1.69	1.22	1.14	1.22	1.02	1.02	1.05	1.05
50	1.69	1.23	1.14	1.23	1.02	1.02	1.04	1.04
100	1.67	1.23	1.15	1.23	1.01	1.01	1.04	1.04
200	1.62	1.22	1.15	1.23	1.01	1.02	1.04	1.04
500	1.40	1.17	1.13	1.19	1.02	1.02	1.05	1.05
750	1.20	1.13	1.11	1.15	1.03	1.03	1.05	1.05
1000	1.11	1.09	1.11	1.10	1.04	1.03	1.06	1.06
1500	1.18	1.03	1.09	1.01	1.06	1.05	1.07	1.07
2000	1.10	1.06	1.09	1.08	1.07	1.07	1.09	1.09
2500	1.33	1.14	1.13	1.18	1.08	1.10	1.10	1.10
3000	1.65	1.26	1.20	1.30	1.12	1.12	1.11	1.11
3500	1.57	1.28	1.22	1.30	1.15	1.15	1.12	1.12
4000	1.24	1.21	1.19	1.21	1.15	1.15	1.12	1.12
4500	1.22	1.17	1.18	1.16	1.14	1.14	1.11	1.11
5000	1.23	1.16	1.21	1.15	1.10	1.11	1.08	1.08
5500	1.36	1.22	1.22	1.24	1.05	1.05	1.03	1.03
6000	1.47	1.20	1.15	1.24	1.02	1.05	1.06	1.06
7000	1.80	1.43	1.37	1.49	1.32	1.31	1.28	1.28
7500	1.58	1.48	1.49	1.50	1.47	1.46	1.40	1.40
8000	1.59	1.50	1.52	1.49	1.59	1.58	1.50	1.50

**Notes**

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# Programmable Attenuator RCDAT-8000-90

## Typical Performance Data @ 0°C

FREQUENCY (MHz)	IP3 (dBm)	Insertion Loss @P <sub>IN</sub> =0 dBm (dB)	Insertion Loss @P <sub>IN</sub> =+28 dBm (dB)
1	43.83	2.58	2.95
50	53.66	2.49	2.93
100	51.62	3.03	3.46
200	53.01	3.50	3.92
500	54.05	3.28	3.34
750	52.60	3.51	3.92
1000	53.10	3.78	3.84
1500	53.33	4.22	4.27
2000	52.88	4.48	4.62
2500	53.91	4.47	4.76
3000	54.14	5.38	5.43
3500	55.27	6.57	6.64
4000	50.05	6.87	6.94
4500	47.59	6.43	6.33
5000	53.15	7.09	7.18
5500	48.70	7.13	7.57
6000	48.01	6.17	6.52
6500	47.30	5.51	5.86
7000	48.39	8.77	8.89
7500	51.60	9.70	9.87
8000	48.26	9.37	9.19

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# Programmable Attenuator RCDAT-8000-90

## 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
1	0.30	9.98	14.82	29.18	43.76	58.18	73.04	87.30
5	0.30	9.98	14.81	29.18	43.76	58.19	73.05	87.41
10	0.30	9.98	14.81	29.18	43.76	58.19	73.09	87.35
20	0.30	9.98	14.81	29.18	43.76	58.19	73.04	87.01
50	0.30	9.97	14.80	29.16	43.75	58.17	73.01	87.10
100	0.30	9.97	14.80	29.17	43.75	58.17	73.01	87.13
200	0.29	9.95	14.77	29.14	43.72	58.13	72.97	87.01
500	0.29	9.84	14.63	29.03	43.58	57.99	72.83	86.87
750	0.28	9.75	14.51	28.95	43.48	57.87	72.71	86.88
1000	0.27	9.73	14.46	28.94	43.47	57.84	72.67	86.75
1500	0.27	9.77	14.50	29.04	43.58	57.96	72.86	87.00
2000	0.26	9.78	14.53	29.11	43.72	58.17	73.17	87.31
2500	0.28	9.92	14.75	29.36	44.09	58.67	73.69	87.89
3000	0.29	9.89	14.70	29.52	44.24	58.98	74.00	88.31
3500	0.27	9.70	14.45	29.52	44.22	59.06	74.08	88.49
4000	0.27	9.77	14.54	29.76	44.56	59.50	74.63	89.36
4500	0.27	9.87	14.68	30.05	44.98	60.04	75.28	90.17
5000	0.28	9.95	14.82	30.32	45.35	60.56	76.00	90.97
5500	0.30	10.06	15.00	30.64	45.78	61.15	76.73	91.83
6000	0.32	10.18	15.12	31.02	46.24	61.84	77.33	92.48
7000	0.30	9.85	14.75	30.96	46.09	61.79	77.21	92.49
7500	0.31	10.09	15.20	31.09	46.25	61.66	77.15	92.17
8000	0.32	10.27	15.48	30.97	46.05	61.04	76.33	90.97

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
1	-0.05	0.02	0.19	0.82	1.24	1.82	1.96	2.70
5	-0.05	0.02	0.19	0.82	1.24	1.81	1.95	2.59
10	-0.04	0.02	0.19	0.82	1.24	1.81	1.92	2.65
20	-0.05	0.02	0.19	0.83	1.24	1.81	1.96	3.00
50	-0.04	0.03	0.20	0.84	1.26	1.83	1.99	2.90
100	-0.04	0.03	0.20	0.83	1.25	1.83	2.00	2.87
200	-0.04	0.05	0.23	0.86	1.29	1.87	2.03	2.99
500	-0.04	0.16	0.37	0.97	1.42	2.01	2.17	3.14
750	-0.03	0.25	0.49	1.05	1.52	2.13	2.29	3.12
1000	-0.02	0.27	0.54	1.06	1.54	2.17	2.33	3.25
1500	-0.02	0.23	0.50	0.96	1.42	2.04	2.14	3.00
2000	-0.01	0.22	0.47	0.89	1.28	1.83	1.83	2.69
2500	-0.03	0.08	0.25	0.64	0.91	1.33	1.32	2.11
3000	-0.04	0.11	0.30	0.48	0.76	1.02	1.00	1.69
3500	-0.02	0.30	0.56	0.48	0.78	0.94	0.92	1.51
4000	-0.02	0.23	0.47	0.24	0.44	0.50	0.38	0.64
4500	-0.02	0.13	0.32	-0.05	0.02	-0.04	-0.28	-0.17
5000	-0.03	0.05	0.18	-0.32	-0.35	-0.56	-1.00	-0.97
5500	-0.05	-0.06	0.00	-0.64	-0.78	-1.15	-1.73	-1.83
6000	-0.07	-0.18	-0.12	-1.02	-1.24	-1.84	-2.33	-2.48
7000	-0.05	0.15	0.25	-0.96	-1.09	-1.79	-2.21	-2.49
7500	-0.06	-0.09	-0.20	-1.09	-1.25	-1.66	-2.15	-2.17
8000	-0.07	-0.27	-0.48	-0.97	-1.05	-1.04	-1.33	-0.96

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# Programmable Attenuator RCDAT-8000-90

## 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
1	1.73	1.21	1.18	1.04	1.04	1.04	1.04	1.04
5	1.73	1.21	1.18	1.04	1.04	1.04	1.04	1.04
10	1.73	1.21	1.18	1.03	1.03	1.03	1.03	1.03
20	1.73	1.21	1.18	1.03	1.03	1.03	1.03	1.03
50	1.72	1.21	1.18	1.03	1.03	1.03	1.03	1.03
100	1.70	1.21	1.18	1.03	1.03	1.03	1.03	1.03
200	1.66	1.20	1.18	1.04	1.03	1.03	1.03	1.03
500	1.43	1.16	1.16	1.03	1.03	1.03	1.03	1.03
750	1.22	1.13	1.14	1.03	1.03	1.03	1.03	1.03
1000	1.11	1.11	1.12	1.03	1.02	1.02	1.02	1.02
1500	1.19	1.10	1.10	1.03	1.01	1.01	1.01	1.01
2000	1.12	1.09	1.10	1.06	1.03	1.03	1.03	1.03
2500	1.29	1.11	1.11	1.10	1.06	1.06	1.06	1.06
3000	1.49	1.16	1.14	1.13	1.08	1.08	1.08	1.08
3500	1.33	1.15	1.14	1.15	1.10	1.10	1.10	1.10
4000	1.11	1.12	1.13	1.16	1.10	1.10	1.10	1.10
4500	1.14	1.13	1.13	1.14	1.08	1.08	1.08	1.08
5000	1.16	1.11	1.12	1.12	1.05	1.05	1.05	1.05
5500	1.22	1.10	1.10	1.09	1.03	1.03	1.03	1.03
6000	1.21	1.02	1.02	1.15	1.10	1.10	1.10	1.10
7000	1.55	1.24	1.23	1.40	1.34	1.34	1.34	1.34
7500	1.39	1.29	1.31	1.56	1.47	1.47	1.47	1.47
8000	1.40	1.37	1.38	1.73	1.61	1.61	1.61	1.61

FREQUENCY (MHz)	Output VSWR (:1)							
	0.25 dB	10 dB	15 dB	30 dB	45 dB	60 dB	75 dB	90 dB
1	1.73	1.28	1.19	1.28	1.03	1.03	1.02	1.02
5	1.73	1.28	1.19	1.28	1.03	1.03	1.01	1.01
10	1.73	1.28	1.19	1.28	1.03	1.02	1.01	1.01
20	1.73	1.27	1.19	1.28	1.02	1.02	1.00	1.00
50	1.72	1.27	1.19	1.28	1.02	1.02	1.01	1.00
100	1.70	1.27	1.19	1.27	1.02	1.02	1.01	1.01
200	1.65	1.26	1.18	1.26	1.02	1.02	1.01	1.01
500	1.42	1.21	1.16	1.22	1.02	1.02	1.02	1.02
750	1.22	1.15	1.14	1.16	1.01	1.02	1.02	1.02
1000	1.11	1.10	1.13	1.11	1.00	1.01	1.02	1.02
1500	1.19	1.06	1.11	1.04	1.02	1.00	1.03	1.03
2000	1.12	1.08	1.11	1.09	1.03	1.03	1.04	1.04
2500	1.35	1.17	1.15	1.20	1.05	1.06	1.05	1.05
3000	1.67	1.28	1.21	1.31	1.10	1.10	1.07	1.07
3500	1.55	1.29	1.23	1.31	1.13	1.13	1.09	1.09
4000	1.24	1.20	1.20	1.20	1.14	1.14	1.10	1.10
4500	1.22	1.17	1.19	1.16	1.13	1.14	1.10	1.10
5000	1.23	1.17	1.21	1.16	1.11	1.11	1.09	1.09
5500	1.34	1.23	1.21	1.24	1.07	1.06	1.06	1.06
6000	1.47	1.20	1.15	1.23	1.01	1.02	1.06	1.06
7000	1.74	1.38	1.33	1.43	1.25	1.25	1.21	1.21
7500	1.53	1.42	1.43	1.43	1.38	1.38	1.31	1.31
8000	1.55	1.45	1.47	1.44	1.51	1.51	1.42	1.42

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# Programmable Attenuator RCDAT-8000-90

## Typical Performance Data @ +25°C

FREQUENCY (MHz)	IP3 (dBm)	Insertion Loss @P <sub>IN</sub> =0 dBm (dB)	Insertion Loss @P <sub>IN</sub> =+28 dBm (dB)
1	44.79	2.95	2.91
50	57.56	2.59	2.64
100	52.82	3.27	3.34
200	53.65	3.86	3.95
500	55.72	3.68	3.75
750	54.97	3.85	3.88
1000	54.25	4.07	4.09
1500	52.74	4.49	4.52
2000	53.33	4.67	4.82
2500	55.12	4.72	4.76
3000	55.11	5.67	5.75
3500	53.93	6.85	6.96
4000	52.06	7.05	7.12
4500	52.08	6.76	6.72
5000	51.58	7.39	7.52
5500	48.17	7.78	7.97
6000	48.12	8.08	8.16
6500	50.26	8.86	8.92
7000	48.60	9.78	9.94
7500	51.30	9.98	10.18
8000	47.20	9.79	9.62

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# Programmable Attenuator RCDAT-8000-90

## Typical Performance Data @ +50°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
1	0.29	9.91	14.72	29.08	43.62	58.03	72.86	86.72
5	0.29	9.91	14.72	29.08	43.61	58.03	72.85	86.82
10	0.29	9.91	14.72	29.08	43.62	58.03	72.82	86.85
20	0.29	9.91	14.72	29.08	43.62	58.02	72.85	86.98
50	0.29	9.90	14.71	29.07	43.61	58.02	72.82	86.95
100	0.29	9.91	14.71	29.08	43.62	58.02	72.83	86.92
200	0.29	9.88	14.68	29.05	43.59	57.99	72.80	86.91
500	0.28	9.77	14.53	28.94	43.44	57.82	72.62	86.65
750	0.27	9.69	14.42	28.87	43.35	57.71	72.52	86.63
1000	0.27	9.67	14.37	28.87	43.34	57.69	72.47	86.61
1500	0.26	9.72	14.41	28.97	43.47	57.83	72.66	86.73
2000	0.26	9.72	14.44	29.04	43.60	58.03	72.95	87.06
2500	0.27	9.87	14.66	29.29	43.96	58.54	73.47	87.68
3000	0.28	9.83	14.62	29.45	44.12	58.84	73.77	88.17
3500	0.27	9.65	14.37	29.47	44.12	58.95	73.89	88.49
4000	0.27	9.74	14.49	29.74	44.50	59.45	74.53	88.97
4500	0.27	9.84	14.63	30.03	44.92	60.00	75.24	89.96
5000	0.28	9.92	14.77	30.32	45.31	60.55	75.93	90.57
5500	0.29	10.03	14.94	30.66	45.75	61.17	76.70	92.09
6000	0.31	10.14	15.07	31.06	46.24	61.87	77.37	92.60
7000	0.30	9.82	14.71	31.05	46.17	61.96	77.33	92.93
7500	0.31	10.07	15.16	31.18	46.34	61.88	77.31	92.16
8000	0.32	10.24	15.44	31.06	46.13	61.26	76.45	91.26

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
1	-0.04	0.09	0.28	0.92	1.38	1.97	2.14	3.28
5	-0.04	0.09	0.28	0.92	1.39	1.97	2.15	3.18
10	-0.04	0.09	0.28	0.92	1.38	1.97	2.18	3.15
20	-0.04	0.09	0.28	0.92	1.38	1.98	2.15	3.02
50	-0.04	0.10	0.29	0.93	1.39	1.98	2.18	3.05
100	-0.04	0.09	0.29	0.92	1.38	1.98	2.17	3.08
200	-0.04	0.12	0.32	0.95	1.42	2.01	2.20	3.09
500	-0.03	0.23	0.47	1.06	1.56	2.18	2.38	3.35
750	-0.02	0.31	0.58	1.13	1.65	2.29	2.48	3.37
1000	-0.02	0.33	0.63	1.13	1.66	2.31	2.53	3.39
1500	-0.01	0.28	0.59	1.03	1.53	2.17	2.35	3.27
2000	-0.01	0.28	0.56	0.96	1.40	1.97	2.05	2.94
2500	-0.02	0.13	0.34	0.71	1.04	1.46	1.53	2.32
3000	-0.03	0.17	0.38	0.56	0.88	1.16	1.23	1.83
3500	-0.02	0.35	0.63	0.53	0.88	1.05	1.11	1.51
4000	-0.02	0.26	0.52	0.26	0.50	0.55	0.47	1.04
4500	-0.02	0.16	0.37	-0.03	0.08	0.00	-0.24	0.04
5000	-0.03	0.08	0.23	-0.32	-0.31	-0.55	-0.93	-0.57
5500	-0.04	-0.03	0.06	-0.66	-0.75	-1.17	-1.70	-2.09
6000	-0.06	-0.14	-0.07	-1.06	-1.24	-1.87	-2.37	-2.60
7000	-0.05	0.18	0.29	-1.05	-1.17	-1.96	-2.33	-2.93
7500	-0.06	-0.07	-0.16	-1.18	-1.34	-1.88	-2.31	-2.16
8000	-0.07	-0.24	-0.44	-1.06	-1.13	-1.26	-1.45	-1.25

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# Programmable Attenuator RCDAT-8000-90

## Typical Performance Data @ +50°C

FREQUENCY (MHz)	Input VSWR (:1)							
	0.25 dB	10 dB	15 dB	30 dB	45 dB	60 dB	75 dB	90 dB
1	1.76	1.25	1.22	1.07	1.07	1.07	1.07	1.07
5	1.76	1.25	1.22	1.07	1.07	1.07	1.07	1.07
10	1.76	1.25	1.22	1.07	1.06	1.06	1.06	1.06
20	1.76	1.24	1.21	1.07	1.06	1.06	1.06	1.06
50	1.76	1.24	1.21	1.07	1.06	1.06	1.06	1.06
100	1.73	1.24	1.21	1.06	1.06	1.06	1.06	1.06
200	1.68	1.23	1.20	1.06	1.06	1.06	1.06	1.06
500	1.44	1.19	1.19	1.07	1.07	1.07	1.07	1.07
750	1.23	1.15	1.16	1.06	1.06	1.06	1.06	1.06
1000	1.12	1.13	1.15	1.06	1.06	1.06	1.06	1.06
1500	1.19	1.13	1.13	1.05	1.04	1.04	1.04	1.04
2000	1.12	1.10	1.11	1.06	1.04	1.04	1.04	1.04
2500	1.30	1.13	1.13	1.10	1.06	1.06	1.06	1.06
3000	1.51	1.18	1.17	1.14	1.09	1.09	1.09	1.09
3500	1.34	1.17	1.17	1.17	1.11	1.11	1.11	1.11
4000	1.12	1.15	1.15	1.17	1.12	1.12	1.12	1.12
4500	1.15	1.15	1.15	1.15	1.10	1.10	1.10	1.10
5000	1.18	1.14	1.14	1.11	1.06	1.06	1.06	1.06
5500	1.21	1.10	1.10	1.08	1.01	1.01	1.01	1.01
6000	1.20	1.02	1.01	1.15	1.10	1.10	1.10	1.10
7000	1.50	1.21	1.21	1.37	1.30	1.29	1.29	1.29
7500	1.35	1.25	1.27	1.51	1.41	1.41	1.41	1.41
8000	1.35	1.33	1.33	1.67	1.54	1.54	1.54	1.54

FREQUENCY (MHz)	Output VSWR (:1)							
	0.25 dB	10 dB	15 dB	30 dB	45 dB	60 dB	75 dB	90 dB
1	1.77	1.32	1.23	1.32	1.06	1.06	1.04	1.04
5	1.77	1.32	1.23	1.32	1.06	1.06	1.03	1.03
10	1.77	1.32	1.23	1.32	1.06	1.06	1.03	1.03
20	1.76	1.31	1.23	1.32	1.06	1.05	1.03	1.03
50	1.75	1.31	1.22	1.32	1.06	1.05	1.03	1.03
100	1.73	1.30	1.22	1.31	1.05	1.05	1.03	1.03
200	1.68	1.29	1.21	1.29	1.05	1.05	1.02	1.02
500	1.44	1.23	1.19	1.24	1.05	1.05	1.03	1.03
750	1.23	1.17	1.16	1.18	1.04	1.05	1.03	1.03
1000	1.12	1.12	1.14	1.12	1.03	1.05	1.03	1.03
1500	1.20	1.09	1.13	1.06	1.02	1.03	1.02	1.02
2000	1.12	1.10	1.13	1.10	1.01	1.02	1.01	1.01
2500	1.36	1.19	1.16	1.21	1.04	1.05	1.03	1.03
3000	1.68	1.29	1.22	1.32	1.09	1.09	1.06	1.06
3500	1.56	1.30	1.25	1.32	1.14	1.14	1.09	1.09
4000	1.25	1.21	1.22	1.20	1.15	1.16	1.11	1.11
4500	1.22	1.18	1.20	1.16	1.15	1.16	1.13	1.13
5000	1.24	1.19	1.22	1.18	1.13	1.13	1.12	1.12
5500	1.34	1.23	1.21	1.25	1.09	1.07	1.09	1.09
6000	1.46	1.20	1.15	1.23	1.02	1.01	1.07	1.07
7000	1.71	1.36	1.31	1.41	1.22	1.21	1.17	1.17
7500	1.49	1.37	1.39	1.39	1.33	1.33	1.25	1.25
8000	1.52	1.40	1.43	1.39	1.46	1.46	1.36	1.36

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# Programmable Attenuator RCDAT-8000-90

## Typical Performance Data @ +50°C

FREQUENCY (MHz)	IP3 (dBm)	Insertion Loss @P <sub>IN</sub> =0 dBm (dB)	Insertion Loss @P <sub>IN</sub> =+28 dBm (dB)
1	42.81	3.34	2.99
50	51.42	3.10	2.82
100	51.00	2.60	2.41
200	52.64	3.26	3.08
500	55.60	3.83	3.66
750	54.07	3.81	3.59
1000	54.46	4.11	3.88
1500	54.45	4.14	4.12
2000	54.45	4.57	4.57
2500	55.38	4.87	5.00
3000	54.63	4.93	4.93
3500	51.75	5.84	5.97
4000	51.07	6.95	7.11
4500	49.07	7.13	7.21
5000	52.48	7.03	7.05
5500	47.31	7.66	7.88
6000	47.65	7.88	7.97
6500	47.71	8.33	8.30
7000	50.48	9.05	9.01
7500	51.49	9.90	10.10
8000	46.56	10.19	10.40

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