

Programmable Attenuator RCDAT-6000-30

Typical Performance Data @ 0°C

FREQUENCY (MHz)	Attenuation relative to Insertion Loss (dB)						
	0.25 dB	5 dB	10 dB	15 dB	20 dB	25 dB	30 dB
1	0.25	4.76	9.48	14.46	19.41	24.40	29.37
5	0.25	4.76	9.48	14.46	19.41	24.41	29.37
10	0.25	4.76	9.49	14.47	19.42	24.41	29.37
20	0.24	4.76	9.49	14.47	19.42	24.41	29.37
50	0.25	4.76	9.48	14.46	19.41	24.40	29.37
100	0.24	4.76	9.49	14.47	19.42	24.41	29.37
200	0.24	4.75	9.48	14.46	19.41	24.41	29.36
500	0.24	4.72	9.43	14.41	19.35	24.36	29.31
750	0.23	4.69	9.39	14.36	19.30	24.31	29.24
1000	0.23	4.68	9.37	14.35	19.27	24.30	29.23
1500	0.23	4.67	9.36	14.35	19.25	24.30	29.24
2000	0.23	4.69	9.40	14.42	19.30	24.37	29.36
2500	0.24	4.85	9.64	14.68	19.59	24.69	29.71
3000	0.23	4.84	9.67	14.71	19.61	24.78	29.80
3500	0.22	4.77	9.59	14.64	19.50	24.72	29.74
4000	0.22	4.74	9.57	14.65	19.42	24.69	29.75
4500	0.24	4.85	9.76	14.88	19.62	24.91	29.98
5000	0.26	5.23	10.35	15.49	20.28	25.59	30.62
5500	0.25	5.26	10.48	15.60	20.35	25.71	30.62
6000	0.22	4.99	10.12	15.23	19.75	25.14	29.98

FREQUENCY (MHz)	Attenuation accuracy relative to nominal attenuation setting (dB)						
	0.25 dB	5 dB	10 dB	15 dB	20 dB	25 dB	30 dB
1	0.00	0.24	0.52	0.54	0.59	0.60	0.63
5	0.00	0.24	0.52	0.54	0.59	0.59	0.63
10	0.00	0.24	0.51	0.53	0.58	0.59	0.63
20	0.01	0.24	0.51	0.53	0.58	0.59	0.63
50	0.00	0.24	0.52	0.54	0.59	0.60	0.63
100	0.01	0.24	0.51	0.53	0.58	0.59	0.63
200	0.01	0.25	0.52	0.54	0.59	0.59	0.64
500	0.01	0.28	0.57	0.59	0.65	0.64	0.69
750	0.02	0.31	0.61	0.64	0.70	0.69	0.76
1000	0.02	0.32	0.63	0.65	0.73	0.70	0.77
1500	0.03	0.33	0.64	0.65	0.75	0.70	0.76
2000	0.02	0.31	0.60	0.59	0.70	0.63	0.64
2500	0.01	0.16	0.36	0.32	0.41	0.31	0.29
3000	0.02	0.16	0.33	0.29	0.39	0.23	0.20
3500	0.03	0.23	0.41	0.36	0.50	0.28	0.26
4000	0.03	0.26	0.43	0.35	0.58	0.31	0.25
4500	0.01	0.15	0.24	0.12	0.38	0.09	0.02
5000	-0.01	-0.23	-0.35	-0.49	-0.28	-0.59	-0.61
5500	0.00	-0.26	-0.48	-0.60	-0.35	-0.71	-0.62
6000	0.03	0.01	-0.12	-0.23	0.25	-0.14	0.02

Notes

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Programmable Attenuator RCDAT-6000-30

Typical Performance Data @ 0°C

FREQUENCY (MHz)	Input VSWR (:1)						
	0.25 dB	5 dB	10 dB	15 dB	20 dB	25 dB	30 dB
1	1.29	1.18	1.07	1.12	1.06	1.04	1.06
5	1.28	1.17	1.05	1.11	1.04	1.01	1.04
10	1.28	1.17	1.05	1.11	1.04	1.01	1.04
20	1.28	1.17	1.05	1.11	1.04	1.01	1.04
50	1.28	1.17	1.06	1.11	1.04	1.01	1.04
100	1.29	1.18	1.07	1.12	1.04	1.02	1.04
200	1.29	1.19	1.08	1.13	1.03	1.04	1.04
500	1.33	1.24	1.13	1.18	1.08	1.10	1.08
750	1.33	1.28	1.18	1.24	1.11	1.14	1.11
1000	1.30	1.29	1.21	1.28	1.13	1.17	1.13
1500	1.36	1.32	1.23	1.28	1.15	1.18	1.15
2000	1.51	1.32	1.22	1.22	1.17	1.15	1.17
2500	1.35	1.16	1.12	1.09	1.15	1.12	1.16
3000	1.26	1.11	1.01	1.03	1.09	1.08	1.09
3500	1.22	1.16	1.08	1.11	1.02	1.02	1.02
4000	1.43	1.30	1.24	1.22	1.20	1.16	1.19
4500	1.59	1.43	1.44	1.39	1.46	1.42	1.46
5000	1.18	1.36	1.53	1.52	1.65	1.64	1.66
5500	1.35	1.38	1.49	1.51	1.64	1.67	1.65
6000	1.46	1.30	1.29	1.29	1.37	1.41	1.38

FREQUENCY (MHz)	Output VSWR (:1)						
	0.25 dB	5 dB	10 dB	15 dB	20 dB	25 dB	30 dB
1	1.29	1.09	1.07	1.05	1.06	1.05	1.04
5	1.28	1.08	1.05	1.03	1.04	1.03	1.01
10	1.28	1.08	1.05	1.02	1.04	1.03	1.01
20	1.28	1.08	1.05	1.02	1.04	1.03	1.01
50	1.28	1.08	1.06	1.02	1.05	1.04	1.01
100	1.29	1.09	1.07	1.02	1.06	1.05	1.02
200	1.29	1.10	1.08	1.03	1.07	1.06	1.03
500	1.33	1.16	1.14	1.08	1.14	1.12	1.09
750	1.34	1.20	1.19	1.12	1.19	1.18	1.14
1000	1.33	1.23	1.23	1.16	1.24	1.23	1.19
1500	1.42	1.30	1.28	1.24	1.26	1.26	1.24
2000	1.54	1.35	1.28	1.29	1.24	1.24	1.26
2500	1.28	1.17	1.16	1.23	1.17	1.17	1.20
3000	1.20	1.04	1.07	1.08	1.11	1.10	1.09
3500	1.30	1.17	1.13	1.09	1.09	1.10	1.09
4000	1.49	1.35	1.27	1.32	1.24	1.24	1.27
4500	1.60	1.49	1.45	1.53	1.48	1.44	1.47
5000	1.19	1.42	1.55	1.61	1.68	1.63	1.62
5500	1.40	1.44	1.56	1.53	1.66	1.64	1.58
6000	1.56	1.39	1.39	1.29	1.37	1.40	1.35

Notes

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Programmable Attenuator RCDAT-6000-30

Typical Performance Data @ 0°C

FREQUENCY (MHz)	IP3 (dBm)	Insertion Loss @P _{IN} =0 dBm (dB)	Insertion Loss @P _{IN} =+20 dBm (dB)
1	50.30	-	-
5	54.15	-	-
10	56.12	1.10	1.01
20	58.14	1.12	1.01
50	57.49	1.37	1.15
100	57.84	1.30	1.08
200	58.18	1.17	1.02
500	58.50	1.51	1.29
750	57.91	1.57	1.37
1000	54.54	1.79	1.61
1500	60.48	1.56	1.41
2000	55.56	1.98	1.85
2500	59.38	2.01	1.83
3000	60.26	2.23	2.05
3500	60.53	2.22	2.05
4000	54.04	2.37	2.20
4500	51.01	2.66	2.49
5000	55.79	2.91	2.69
5500	51.54	3.35	3.25
6000	49.78	3.33	3.26

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Programmable Attenuator RCDAT-6000-30

Typical Performance Data @ +25°C

FREQUENCY (MHz)	Attenuation relative to Insertion Loss (dB)						
	0.25 dB	5 dB	10 dB	15 dB	20 dB	25 dB	30 dB
1	0.24	4.74	9.46	14.42	19.38	24.37	29.34
5	0.24	4.74	9.46	14.43	19.39	24.38	29.34
10	0.24	4.74	9.46	14.43	19.39	24.39	29.34
20	0.24	4.74	9.46	14.44	19.39	24.40	29.34
50	0.24	4.74	9.46	14.43	19.39	24.39	29.33
100	0.24	4.74	9.47	14.44	19.40	24.40	29.35
200	0.24	4.74	9.46	14.43	19.39	24.39	29.34
500	0.24	4.70	9.41	14.38	19.33	24.34	29.27
750	0.23	4.68	9.37	14.34	19.28	24.30	29.22
1000	0.23	4.67	9.36	14.33	19.26	24.30	29.21
1500	0.22	4.66	9.35	14.33	19.24	24.29	29.22
2000	0.23	4.67	9.38	14.39	19.28	24.36	29.34
2500	0.24	4.82	9.61	14.64	19.55	24.66	29.67
3000	0.23	4.82	9.65	14.68	19.59	24.76	29.76
3500	0.22	4.75	9.57	14.61	19.46	24.70	29.71
4000	0.22	4.72	9.54	14.62	19.39	24.67	29.72
4500	0.23	4.83	9.73	14.85	19.59	24.88	29.96
5000	0.26	5.20	10.32	15.46	20.25	25.56	30.59
5500	0.25	5.21	10.42	15.52	20.28	25.65	30.57
6000	0.22	4.95	10.07	15.17	19.68	25.10	29.93

FREQUENCY (MHz)	Attenuation accuracy relative to nominal attenuation setting (dB)						
	0.25 dB	5 dB	10 dB	15 dB	20 dB	25 dB	30 dB
1	0.01	0.26	0.54	0.58	0.62	0.63	0.67
5	0.01	0.26	0.54	0.57	0.61	0.62	0.66
10	0.01	0.26	0.54	0.57	0.61	0.61	0.66
20	0.01	0.26	0.54	0.56	0.61	0.60	0.66
50	0.01	0.26	0.54	0.57	0.61	0.61	0.67
100	0.01	0.26	0.53	0.56	0.60	0.60	0.65
200	0.01	0.26	0.54	0.57	0.61	0.61	0.66
500	0.02	0.30	0.59	0.63	0.67	0.66	0.73
750	0.02	0.32	0.63	0.66	0.72	0.70	0.78
1000	0.03	0.33	0.64	0.67	0.74	0.70	0.79
1500	0.03	0.34	0.65	0.67	0.76	0.71	0.78
2000	0.02	0.33	0.62	0.61	0.72	0.64	0.66
2500	0.01	0.18	0.39	0.36	0.45	0.34	0.33
3000	0.02	0.18	0.35	0.32	0.41	0.24	0.24
3500	0.03	0.26	0.43	0.39	0.54	0.30	0.29
4000	0.03	0.28	0.46	0.38	0.61	0.33	0.28
4500	0.02	0.18	0.27	0.15	0.41	0.12	0.04
5000	-0.01	-0.20	-0.32	-0.46	-0.25	-0.56	-0.59
5500	0.00	-0.21	-0.42	-0.52	-0.27	-0.65	-0.57
6000	0.03	0.05	-0.07	-0.17	0.32	-0.10	0.07

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Programmable Attenuator RCDAT-6000-30

Typical Performance Data @ +25°C

FREQUENCY (MHz)	Input VSWR (:1)						
	0.25 dB	5 dB	10 dB	15 dB	20 dB	25 dB	30 dB
1	1.30	1.20	1.09	1.15	1.04	1.05	1.04
5	1.29	1.20	1.08	1.14	1.01	1.03	1.01
10	1.29	1.20	1.08	1.14	1.01	1.03	1.01
20	1.29	1.20	1.08	1.14	1.01	1.03	1.01
50	1.29	1.20	1.08	1.14	1.01	1.03	1.01
100	1.30	1.20	1.09	1.14	1.02	1.04	1.02
200	1.31	1.21	1.10	1.16	1.04	1.06	1.04
500	1.34	1.27	1.16	1.22	1.09	1.12	1.09
750	1.34	1.31	1.21	1.28	1.14	1.17	1.14
1000	1.31	1.32	1.24	1.32	1.17	1.21	1.17
1500	1.38	1.35	1.27	1.33	1.19	1.22	1.19
2000	1.52	1.34	1.24	1.24	1.17	1.16	1.17
2500	1.35	1.17	1.11	1.08	1.13	1.09	1.13
3000	1.27	1.13	1.03	1.06	1.07	1.07	1.07
3500	1.25	1.20	1.12	1.15	1.05	1.07	1.05
4000	1.47	1.33	1.28	1.25	1.23	1.19	1.23
4500	1.59	1.43	1.43	1.38	1.45	1.41	1.45
5000	1.16	1.33	1.50	1.49	1.62	1.61	1.63
5500	1.37	1.38	1.47	1.49	1.61	1.64	1.62
6000	1.45	1.30	1.27	1.29	1.35	1.39	1.35

FREQUENCY (MHz)	Output VSWR (:1)						
	0.25 dB	5 dB	10 dB	15 dB	20 dB	25 dB	30 dB
1	1.30	1.11	1.09	1.04	1.08	1.07	1.05
5	1.29	1.10	1.08	1.01	1.07	1.06	1.02
10	1.29	1.10	1.08	1.01	1.07	1.06	1.02
20	1.29	1.10	1.08	1.01	1.07	1.06	1.02
50	1.29	1.10	1.08	1.01	1.07	1.06	1.03
100	1.30	1.11	1.09	1.02	1.08	1.07	1.03
200	1.31	1.12	1.10	1.04	1.10	1.09	1.05
500	1.34	1.18	1.17	1.10	1.17	1.16	1.12
750	1.36	1.23	1.22	1.15	1.23	1.22	1.18
1000	1.35	1.26	1.27	1.20	1.28	1.27	1.23
1500	1.44	1.33	1.32	1.28	1.31	1.31	1.29
2000	1.54	1.35	1.29	1.29	1.24	1.25	1.26
2500	1.28	1.17	1.14	1.21	1.14	1.14	1.17
3000	1.21	1.05	1.07	1.06	1.10	1.09	1.07
3500	1.31	1.20	1.17	1.13	1.13	1.15	1.14
4000	1.54	1.39	1.31	1.36	1.26	1.27	1.31
4500	1.62	1.51	1.46	1.55	1.49	1.45	1.49
5000	1.20	1.42	1.55	1.61	1.68	1.63	1.61
5500	1.43	1.45	1.57	1.51	1.65	1.64	1.58
6000	1.56	1.39	1.38	1.27	1.35	1.39	1.34

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Programmable Attenuator RCDAT-6000-30

Typical Performance Data @ +25°C

FREQUENCY (MHz)	IP3 (dBm)	Insertion Loss @P _{IN} =0 dBm (dB)	Insertion Loss @P _{IN} =+20 dBm (dB)
1	51.37	-	-
5	53.43	-	-
10	55.67	1.15	1.05
20	57.90	1.17	1.07
50	57.50	1.45	1.28
100	57.82	1.37	1.21
200	58.52	1.24	1.16
500	59.92	1.58	1.46
750	56.71	1.64	1.52
1000	54.53	1.85	1.78
1500	60.18	1.63	1.58
2000	55.54	2.07	2.02
2500	60.30	2.09	2.02
3000	60.40	2.33	2.26
3500	59.23	2.34	2.26
4000	52.80	2.53	2.46
4500	51.41	2.85	2.79
5000	58.90	3.22	3.14
5500	52.27	3.41	3.31
6000	50.26	3.29	3.21

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Programmable Attenuator RCDAT-6000-30

Typical Performance Data @ +50°C

FREQUENCY (MHz)	Attenuation relative to Insertion Loss (dB)						
	0.25 dB	5 dB	10 dB	15 dB	20 dB	25 dB	30 dB
1	0.24	4.71	9.42	14.38	19.34	24.34	29.27
5	0.24	4.71	9.42	14.38	19.35	24.34	29.26
10	0.24	4.71	9.42	14.38	19.35	24.35	29.27
20	0.24	4.71	9.43	14.38	19.35	24.35	29.28
50	0.24	4.71	9.42	14.38	19.35	24.35	29.27
100	0.24	4.72	9.43	14.39	19.36	24.36	29.29
200	0.24	4.71	9.42	14.38	19.35	24.36	29.28
500	0.23	4.68	9.37	14.33	19.29	24.30	29.21
750	0.23	4.66	9.34	14.30	19.25	24.27	29.17
1000	0.22	4.66	9.34	14.30	19.24	24.27	29.17
1500	0.22	4.65	9.33	14.30	19.21	24.27	29.18
2000	0.23	4.65	9.35	14.34	19.23	24.31	29.27
2500	0.24	4.78	9.57	14.58	19.49	24.60	29.59
3000	0.23	4.79	9.60	14.62	19.53	24.70	29.69
3500	0.22	4.72	9.54	14.56	19.42	24.65	29.64
4000	0.22	4.70	9.51	14.57	19.33	24.60	29.65
4500	0.23	4.79	9.68	14.78	19.51	24.80	29.87
5000	0.26	5.17	10.27	15.39	20.18	25.48	30.51
5500	0.24	5.16	10.33	15.42	20.17	25.55	30.46
6000	0.21	4.92	10.02	15.10	19.61	25.04	29.87

FREQUENCY (MHz)	Attenuation accuracy relative to nominal attenuation setting (dB)						
	0.25 dB	5 dB	10 dB	15 dB	20 dB	25 dB	30 dB
1	0.01	0.29	0.59	0.63	0.66	0.66	0.73
5	0.01	0.29	0.58	0.62	0.65	0.66	0.74
10	0.01	0.29	0.58	0.62	0.65	0.65	0.73
20	0.01	0.29	0.57	0.62	0.65	0.65	0.73
50	0.01	0.29	0.58	0.62	0.65	0.65	0.73
100	0.01	0.28	0.57	0.61	0.64	0.64	0.71
200	0.01	0.29	0.58	0.62	0.65	0.64	0.72
500	0.02	0.32	0.63	0.67	0.71	0.70	0.79
750	0.03	0.34	0.66	0.70	0.75	0.73	0.83
1000	0.03	0.34	0.66	0.70	0.76	0.73	0.83
1500	0.03	0.36	0.67	0.70	0.79	0.73	0.82
2000	0.03	0.35	0.65	0.66	0.77	0.69	0.73
2500	0.02	0.22	0.43	0.42	0.51	0.40	0.41
3000	0.02	0.21	0.40	0.38	0.47	0.30	0.31
3500	0.04	0.28	0.46	0.44	0.58	0.35	0.36
4000	0.03	0.30	0.49	0.43	0.67	0.40	0.35
4500	0.02	0.21	0.32	0.22	0.49	0.20	0.13
5000	0.00	-0.17	-0.27	-0.39	-0.17	-0.48	-0.51
5500	0.01	-0.16	-0.33	-0.42	-0.17	-0.55	-0.46
6000	0.04	0.08	-0.02	-0.10	0.39	-0.04	0.13

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Programmable Attenuator RCDAT-6000-30

Typical Performance Data @ +50°C

FREQUENCY (MHz)	Input VSWR (:1)						
	0.25 dB	5 dB	10 dB	15 dB	20 dB	25 dB	30 dB
1	1.32	1.24	1.12	1.18	1.05	1.07	1.05
5	1.31	1.23	1.11	1.18	1.02	1.06	1.02
10	1.31	1.23	1.12	1.18	1.02	1.06	1.02
20	1.31	1.23	1.12	1.18	1.02	1.06	1.02
50	1.31	1.23	1.12	1.18	1.03	1.06	1.02
100	1.31	1.23	1.12	1.18	1.03	1.06	1.03
200	1.32	1.24	1.13	1.19	1.05	1.08	1.05
500	1.36	1.30	1.20	1.26	1.12	1.16	1.12
750	1.36	1.34	1.25	1.32	1.17	1.21	1.17
1000	1.33	1.36	1.28	1.35	1.20	1.24	1.20
1500	1.39	1.38	1.30	1.36	1.22	1.25	1.22
2000	1.53	1.35	1.25	1.26	1.18	1.18	1.18
2500	1.36	1.18	1.10	1.09	1.11	1.07	1.11
3000	1.29	1.16	1.06	1.09	1.04	1.06	1.04
3500	1.27	1.23	1.16	1.19	1.09	1.10	1.09
4000	1.48	1.34	1.29	1.26	1.24	1.20	1.23
4500	1.59	1.42	1.42	1.37	1.43	1.39	1.43
5000	1.15	1.31	1.47	1.46	1.59	1.58	1.59
5500	1.38	1.37	1.45	1.47	1.58	1.61	1.59
6000	1.44	1.30	1.27	1.29	1.34	1.38	1.34

FREQUENCY (MHz)	Output VSWR (:1)						
	0.25 dB	5 dB	10 dB	15 dB	20 dB	25 dB	30 dB
1	1.32	1.14	1.12	1.05	1.12	1.11	1.07
5	1.31	1.13	1.11	1.04	1.11	1.10	1.06
10	1.31	1.13	1.11	1.04	1.11	1.10	1.06
20	1.31	1.13	1.11	1.04	1.11	1.10	1.06
50	1.31	1.13	1.11	1.04	1.11	1.10	1.06
100	1.31	1.13	1.11	1.04	1.11	1.10	1.06
200	1.32	1.15	1.13	1.06	1.13	1.12	1.08
500	1.36	1.21	1.20	1.13	1.20	1.19	1.15
750	1.37	1.25	1.26	1.18	1.26	1.25	1.21
1000	1.36	1.28	1.30	1.23	1.31	1.30	1.26
1500	1.45	1.36	1.35	1.31	1.34	1.34	1.32
2000	1.55	1.37	1.30	1.31	1.26	1.26	1.28
2500	1.29	1.16	1.12	1.19	1.11	1.11	1.15
3000	1.22	1.07	1.07	1.03	1.09	1.08	1.05
3500	1.32	1.22	1.20	1.16	1.16	1.18	1.17
4000	1.55	1.41	1.32	1.38	1.28	1.28	1.32
4500	1.63	1.52	1.46	1.55	1.48	1.44	1.48
5000	1.20	1.42	1.54	1.60	1.67	1.61	1.60
5500	1.45	1.44	1.56	1.49	1.64	1.63	1.56
6000	1.57	1.39	1.39	1.26	1.34	1.39	1.33

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Programmable Attenuator RCDAT-6000-30

Typical Performance Data @ +50°C

FREQUENCY (MHz)	IP3 (dBm)	Insertion Loss @P _{IN} =0 dBm (dB)	Insertion Loss @P _{IN} =+20 dBm (dB)
1	49.85	-	-
5	54.14	-	-
10	55.81	1.19	1.09
20	58.36	1.22	1.12
50	57.25	1.47	1.26
100	57.67	1.44	1.24
200	58.63	1.25	1.12
500	58.32	1.59	1.39
750	56.59	1.67	1.48
1000	54.69	1.89	1.72
1500	60.33	1.71	1.58
2000	55.38	2.17	2.05
2500	59.03	2.19	2.03
3000	62.07	2.43	2.24
3500	59.95	2.43	2.26
4000	52.86	2.65	2.49
4500	51.20	3.03	2.86
5000	58.22	3.39	3.17
5500	51.49	3.56	3.45
6000	50.07	3.43	3.35

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