

Programmable Attenuator RUDAT-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	0.24	4.55	9.27	14.30	19.32	24.11	29.12
5	0.25	4.55	9.28	14.30	19.33	24.12	29.13
10	0.25	4.55	9.28	14.31	19.33	24.12	29.13
20	0.25	4.55	9.28	14.31	19.33	24.12	29.13
50	0.24	4.55	9.28	14.30	19.32	24.12	29.12
100	0.24	4.55	9.28	14.30	19.33	24.12	29.13
200	0.24	4.54	9.27	14.29	19.32	24.11	29.12
500	0.24	4.52	9.23	14.26	19.27	24.08	29.08
750	0.23	4.51	9.20	14.23	19.23	24.05	29.04
1000	0.23	4.51	9.19	14.23	19.22	24.05	29.04
1500	0.23	4.49	9.19	14.23	19.20	24.06	29.08
2000	0.24	4.56	9.32	14.38	19.36	24.25	29.31
2500	0.24	4.66	9.49	14.58	19.57	24.51	29.59
3000	0.23	4.65	9.49	14.59	19.54	24.55	29.64
3500	0.23	4.63	9.48	14.61	19.50	24.55	29.66
4000	0.25	4.74	9.70	14.86	19.72	24.79	29.91
4500	0.28	5.15	10.34	15.53	20.41	25.50	30.57
5000	0.28	5.39	10.76	15.94	20.80	25.93	30.87
5500	0.25	5.13	10.47	15.61	20.32	25.48	30.26
6000	0.22	4.86	10.12	15.23	19.62	24.74	29.39

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	0.45	0.73	0.70	0.68	0.89	0.88
5	0.00	0.45	0.72	0.70	0.67	0.88	0.87
10	0.00	0.45	0.72	0.69	0.67	0.88	0.87
20	0.00	0.45	0.72	0.69	0.67	0.88	0.87
50	0.01	0.45	0.72	0.70	0.68	0.88	0.88
100	0.01	0.45	0.72	0.70	0.67	0.88	0.87
200	0.01	0.46	0.73	0.71	0.68	0.89	0.88
500	0.01	0.48	0.77	0.74	0.73	0.92	0.92
750	0.02	0.49	0.80	0.77	0.77	0.95	0.96
1000	0.02	0.49	0.81	0.77	0.78	0.95	0.96
1500	0.02	0.51	0.81	0.77	0.80	0.94	0.92
2000	0.01	0.44	0.68	0.62	0.64	0.75	0.69
2500	0.01	0.34	0.51	0.42	0.43	0.49	0.41
3000	0.02	0.35	0.51	0.41	0.46	0.45	0.36
3500	0.02	0.37	0.52	0.39	0.50	0.45	0.34
4000	0.00	0.26	0.30	0.14	0.28	0.21	0.09
4500	-0.03	-0.15	-0.34	-0.53	-0.41	-0.50	-0.57
5000	-0.03	-0.39	-0.76	-0.94	-0.80	-0.93	-0.87
5500	0.00	-0.13	-0.47	-0.61	-0.32	-0.48	-0.26
6000	0.03	0.14	-0.12	-0.23	0.38	0.26	0.61

Notes

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Programmable Attenuator RUDAT-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	1.28	1.20	1.09	1.14	1.04	1.04	1.04
5	1.27	1.20	1.08	1.13	1.01	1.02	1.02
10	1.27	1.20	1.08	1.13	1.01	1.02	1.01
20	1.27	1.20	1.08	1.13	1.01	1.02	1.01
50	1.27	1.20	1.08	1.13	1.01	1.03	1.02
100	1.27	1.21	1.09	1.14	1.02	1.04	1.02
200	1.28	1.22	1.10	1.16	1.03	1.06	1.03
500	1.30	1.26	1.15	1.21	1.08	1.11	1.08
750	1.31	1.30	1.20	1.26	1.12	1.15	1.12
1000	1.32	1.32	1.23	1.29	1.15	1.18	1.14
1500	1.50	1.37	1.27	1.29	1.19	1.19	1.19
2000	1.49	1.30	1.24	1.21	1.22	1.18	1.22
2500	1.26	1.11	1.13	1.09	1.20	1.17	1.20
3000	1.21	1.08	1.05	1.02	1.13	1.12	1.13
3500	1.37	1.20	1.15	1.12	1.14	1.10	1.14
4000	1.55	1.34	1.34	1.29	1.35	1.32	1.35
4500	1.37	1.36	1.51	1.50	1.62	1.60	1.63
5000	1.06	1.38	1.61	1.63	1.80	1.81	1.81
5500	1.51	1.52	1.66	1.69	1.87	1.91	1.88
6000	1.66	1.57	1.62	1.63	1.81	1.87	1.82

FREQUENCY (MHz)	Output VSWR (:1)						
	0.25 dB	5 dB	10 dB	15 dB	20 dB	25 dB	30 dB
1	1.28	1.11	1.08	1.04	1.07	1.06	1.04
5	1.27	1.10	1.06	1.01	1.05	1.05	1.02
10	1.27	1.10	1.06	1.01	1.05	1.05	1.02
20	1.27	1.10	1.06	1.00	1.05	1.05	1.02
50	1.27	1.10	1.06	1.01	1.06	1.05	1.02
100	1.27	1.11	1.07	1.02	1.06	1.06	1.03
200	1.28	1.12	1.09	1.03	1.08	1.07	1.05
500	1.29	1.16	1.13	1.07	1.13	1.12	1.09
750	1.29	1.19	1.18	1.12	1.18	1.17	1.14
1000	1.31	1.23	1.21	1.17	1.21	1.21	1.18
1500	1.46	1.30	1.24	1.24	1.22	1.22	1.22
2000	1.48	1.29	1.22	1.26	1.20	1.20	1.22
2500	1.26	1.14	1.14	1.20	1.15	1.15	1.18
3000	1.19	1.07	1.07	1.13	1.10	1.09	1.11
3500	1.34	1.20	1.15	1.21	1.16	1.14	1.17
4000	1.53	1.35	1.32	1.39	1.35	1.32	1.34
4500	1.36	1.39	1.50	1.59	1.60	1.56	1.56
5000	1.08	1.41	1.63	1.68	1.77	1.74	1.70
5500	1.52	1.53	1.70	1.67	1.81	1.79	1.73
6000	1.65	1.51	1.60	1.51	1.65	1.66	1.59

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/AACI/Store/terms.jsp



Programmable Attenuator RUDAT-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	54.75	-	-
200	53.35	1.30	1.14
500	51.50	1.90	1.73
1000	52.41	2.08	1.92
2000	54.22	2.11	1.94
3000	53.40	2.18	1.99
4000	52.57	2.68	2.49
5000	51.42	3.18	2.99
6000	50.27	3.63	3.48

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Programmable Attenuator RUDAT-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	4.53	9.25	14.26	19.29	24.09	29.08
5	0.24	4.53	9.25	14.27	19.30	24.09	29.09
10	0.24	4.53	9.25	14.27	19.30	24.10	29.09
20	0.24	4.53	9.25	14.27	19.30	24.10	29.09
50	0.24	4.53	9.25	14.27	19.29	24.09	29.08
100	0.24	4.53	9.25	14.27	19.30	24.10	29.09
200	0.24	4.53	9.24	14.26	19.29	24.10	29.08
500	0.23	4.50	9.20	14.22	19.24	24.06	29.04
750	0.23	4.50	9.19	14.21	19.21	24.04	29.01
1000	0.23	4.49	9.18	14.21	19.20	24.04	29.01
1500	0.23	4.47	9.17	14.21	19.18	24.04	29.05
2000	0.24	4.54	9.29	14.34	19.32	24.22	29.27
2500	0.24	4.64	9.45	14.53	19.52	24.47	29.54
3000	0.23	4.62	9.45	14.55	19.50	24.52	29.60
3500	0.23	4.60	9.45	14.57	19.46	24.52	29.63
4000	0.24	4.71	9.65	14.81	19.67	24.75	29.88
4500	0.27	5.11	10.29	15.48	20.36	25.47	30.55
5000	0.28	5.36	10.72	15.90	20.78	25.94	30.88
5500	0.24	5.05	10.36	15.49	20.22	25.41	30.20
6000	0.22	4.82	10.05	15.16	19.55	24.71	29.38

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	0.47	0.75	0.74	0.71	0.91	0.92
5	0.01	0.47	0.75	0.73	0.70	0.91	0.91
10	0.01	0.47	0.75	0.73	0.70	0.90	0.91
20	0.01	0.47	0.75	0.73	0.70	0.90	0.91
50	0.01	0.47	0.75	0.73	0.71	0.91	0.92
100	0.01	0.47	0.75	0.73	0.70	0.90	0.91
200	0.01	0.47	0.76	0.74	0.71	0.90	0.92
500	0.02	0.50	0.80	0.78	0.76	0.94	0.96
750	0.02	0.50	0.81	0.79	0.79	0.96	0.99
1000	0.02	0.51	0.82	0.79	0.80	0.96	0.99
1500	0.02	0.53	0.83	0.79	0.82	0.96	0.95
2000	0.01	0.46	0.71	0.66	0.68	0.78	0.73
2500	0.01	0.36	0.55	0.47	0.48	0.53	0.46
3000	0.02	0.38	0.55	0.45	0.50	0.48	0.40
3500	0.02	0.40	0.55	0.43	0.54	0.48	0.37
4000	0.01	0.29	0.35	0.19	0.33	0.25	0.12
4500	-0.02	-0.11	-0.29	-0.48	-0.36	-0.47	-0.55
5000	-0.03	-0.36	-0.72	-0.90	-0.78	-0.94	-0.88
5500	0.01	-0.05	-0.36	-0.49	-0.22	-0.41	-0.20
6000	0.03	0.18	-0.05	-0.16	0.45	0.29	0.62

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Programmable Attenuator RUDAT-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 RUDAT-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	52.28	-	-
200	53.58	1.40	1.23
500	51.37	1.82	1.63
1000	52.54	1.82	1.64
2000	54.89	1.92	1.74
3000	53.24	2.13	1.93
4000	51.59	2.59	2.40
5000	51.36	3.05	2.86
6000	51.12	3.64	3.50

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Programmable Attenuator RUDAT-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	4.51	9.21	14.22	19.25	24.05	29.02
5	0.24	4.51	9.22	14.22	19.25	24.05	29.03
10	0.24	4.51	9.22	14.22	19.25	24.06	29.03
20	0.24	4.51	9.22	14.22	19.25	24.06	29.03
50	0.24	4.51	9.22	14.22	19.25	24.06	29.03
100	0.24	4.51	9.22	14.23	19.26	24.06	29.04
200	0.24	4.51	9.22	14.22	19.26	24.06	29.03
500	0.23	4.49	9.18	14.18	19.21	24.02	28.98
750	0.23	4.48	9.16	14.17	19.18	24.01	28.96
1000	0.23	4.48	9.16	14.18	19.17	24.01	28.97
1500	0.22	4.46	9.14	14.17	19.15	24.01	29.00
2000	0.23	4.51	9.25	14.29	19.27	24.17	29.21
2500	0.23	4.61	9.40	14.47	19.46	24.41	29.47
3000	0.23	4.60	9.41	14.49	19.45	24.46	29.54
3500	0.23	4.58	9.41	14.52	19.41	24.47	29.58
4000	0.24	4.67	9.59	14.73	19.59	24.67	29.81
4500	0.26	5.07	10.23	15.40	20.29	25.41	30.50
5000	0.27	5.31	10.65	15.81	20.71	25.89	30.84
5500	0.23	4.98	10.26	15.36	20.10	25.33	30.12
6000	0.21	4.78	9.99	15.09	19.48	24.67	29.36

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	0.49	0.79	0.78	0.75	0.95	0.98
5	0.01	0.49	0.78	0.78	0.75	0.95	0.97
10	0.01	0.49	0.78	0.78	0.75	0.94	0.97
20	0.01	0.49	0.78	0.78	0.75	0.94	0.97
50	0.01	0.49	0.78	0.78	0.75	0.94	0.97
100	0.01	0.49	0.78	0.77	0.74	0.94	0.96
200	0.01	0.49	0.78	0.78	0.74	0.94	0.97
500	0.02	0.51	0.82	0.82	0.79	0.98	1.02
750	0.02	0.52	0.84	0.83	0.82	0.99	1.04
1000	0.02	0.52	0.84	0.82	0.83	0.99	1.03
1500	0.03	0.54	0.86	0.83	0.85	0.99	1.00
2000	0.02	0.49	0.75	0.71	0.73	0.83	0.79
2500	0.02	0.39	0.60	0.53	0.54	0.59	0.53
3000	0.02	0.40	0.59	0.51	0.55	0.54	0.46
3500	0.02	0.42	0.59	0.48	0.59	0.53	0.42
4000	0.01	0.33	0.41	0.27	0.41	0.33	0.19
4500	-0.01	-0.07	-0.23	-0.40	-0.29	-0.41	-0.50
5000	-0.02	-0.31	-0.65	-0.81	-0.71	-0.89	-0.84
5500	0.02	0.02	-0.26	-0.36	-0.10	-0.33	-0.12
6000	0.04	0.22	0.01	-0.09	0.52	0.33	0.64

Notes

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Programmable Attenuator RUDAT-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	1.31	1.27	1.15	1.21	1.07	1.10	1.07
5	1.30	1.26	1.14	1.21	1.06	1.09	1.05
10	1.30	1.26	1.14	1.21	1.06	1.09	1.05
20	1.30	1.26	1.14	1.21	1.06	1.09	1.05
50	1.30	1.26	1.14	1.21	1.06	1.09	1.06
100	1.30	1.26	1.15	1.21	1.06	1.09	1.06
200	1.31	1.27	1.16	1.22	1.07	1.11	1.07
500	1.34	1.33	1.23	1.30	1.15	1.19	1.15
750	1.34	1.37	1.28	1.35	1.20	1.24	1.20
1000	1.36	1.40	1.31	1.38	1.23	1.27	1.23
1500	1.52	1.41	1.31	1.34	1.23	1.24	1.23
2000	1.48	1.31	1.23	1.21	1.18	1.15	1.18
2500	1.27	1.12	1.09	1.05	1.13	1.10	1.13
3000	1.23	1.12	1.03	1.04	1.06	1.06	1.07
3500	1.38	1.21	1.14	1.12	1.09	1.05	1.09
4000	1.57	1.32	1.30	1.24	1.28	1.24	1.28
4500	1.41	1.32	1.43	1.41	1.52	1.49	1.52
5000	1.06	1.32	1.52	1.54	1.68	1.69	1.69
5500	1.48	1.47	1.56	1.58	1.73	1.77	1.73
6000	1.57	1.48	1.50	1.53	1.66	1.72	1.66

FREQUENCY (MHz)	Output VSWR (:1)						
	0.25 dB	5 dB	10 dB	15 dB	20 dB	25 dB	30 dB
1	1.31	1.16	1.14	1.08	1.13	1.13	1.09
5	1.30	1.16	1.13	1.07	1.13	1.12	1.09
10	1.30	1.16	1.13	1.07	1.13	1.12	1.09
20	1.30	1.16	1.13	1.06	1.12	1.12	1.09
50	1.30	1.15	1.13	1.06	1.12	1.12	1.08
100	1.30	1.16	1.13	1.07	1.12	1.12	1.09
200	1.31	1.17	1.14	1.08	1.14	1.13	1.10
500	1.33	1.23	1.21	1.15	1.21	1.21	1.17
750	1.32	1.26	1.25	1.20	1.26	1.26	1.22
1000	1.33	1.28	1.28	1.24	1.29	1.29	1.26
1500	1.48	1.34	1.28	1.27	1.26	1.26	1.26
2000	1.48	1.29	1.22	1.25	1.18	1.18	1.21
2500	1.27	1.14	1.10	1.16	1.10	1.09	1.12
3000	1.21	1.09	1.04	1.11	1.05	1.03	1.06
3500	1.35	1.21	1.13	1.19	1.11	1.10	1.14
4000	1.55	1.35	1.28	1.37	1.29	1.26	1.30
4500	1.39	1.37	1.44	1.53	1.53	1.48	1.49
5000	1.07	1.34	1.53	1.58	1.67	1.63	1.59
5500	1.50	1.43	1.55	1.50	1.64	1.63	1.56
6000	1.56	1.40	1.46	1.35	1.49	1.50	1.42

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Programmable Attenuator RUDAT-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	-	-
200	54.14	1.44	1.28
500	55.81	2.01	1.85
1000	58.36	2.15	2.01
2000	57.25	2.21	2.07
3000	57.67	2.34	2.18
4000	58.63	2.91	2.73
5000	58.32	3.47	3.28
6000	56.59	3.88	3.77

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