

Programmable Attenuator RUDAT-6000-90

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	0.26	9.51	14.62	29.22	44.25	59.04	73.62	87.96
5	0.26	9.52	14.62	29.22	44.27	59.05	73.61	88.06
10	0.26	9.51	14.63	29.22	44.24	59.13	73.59	87.79
20	0.26	9.51	14.62	29.22	44.24	59.13	73.59	87.88
50	0.26	9.50	14.61	29.20	44.22	59.08	73.51	87.85
100	0.26	9.50	14.60	29.21	44.22	59.12	73.53	87.88
200	0.26	9.46	14.55	29.16	44.15	59.04	73.46	87.82
500	0.24	9.31	14.35	29.00	43.93	58.80	73.22	87.74
750	0.23	9.21	14.20	28.89	43.77	58.68	73.06	87.49
1000	0.23	9.19	14.15	28.87	43.72	58.62	73.01	87.61
1500	0.23	9.22	14.17	28.95	43.81	58.71	73.13	87.62
2000	0.23	9.19	14.14	28.97	43.90	58.82	73.28	87.69
2500	0.22	9.13	14.08	28.97	44.01	59.03	73.43	87.93
3000	0.24	9.31	14.30	29.27	44.48	59.54	73.99	88.71
3500	0.26	9.87	15.00	30.04	45.49	60.64	75.15	89.71
4000	0.25	10.07	15.37	30.40	45.93	61.26	76.18	90.76
4500	0.25	9.99	15.46	30.31	45.71	60.93	76.88	91.50
5000	0.25	10.09	15.65	30.41	45.94	61.04	77.30	91.96
5500	0.27	10.62	15.82	31.08	46.80	61.96	76.93	91.80
6000	0.25	10.28	14.92	30.61	46.04	61.00	74.69	88.46

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	-0.01	0.49	0.38	0.78	0.75	0.96	1.38	2.04
5	-0.01	0.48	0.38	0.78	0.73	0.95	1.39	1.94
10	-0.01	0.49	0.38	0.78	0.76	0.87	1.41	2.21
20	-0.01	0.49	0.38	0.78	0.76	0.87	1.41	2.12
50	-0.01	0.50	0.39	0.80	0.78	0.92	1.49	2.15
100	-0.01	0.50	0.40	0.79	0.78	0.88	1.47	2.13
200	-0.01	0.54	0.45	0.84	0.85	0.96	1.54	2.18
500	0.01	0.69	0.65	1.00	1.07	1.20	1.78	2.26
750	0.02	0.79	0.80	1.11	1.23	1.32	1.94	2.51
1000	0.02	0.81	0.85	1.13	1.28	1.38	1.99	2.39
1500	0.02	0.78	0.83	1.05	1.19	1.29	1.87	2.38
2000	0.02	0.81	0.86	1.03	1.10	1.18	1.72	2.31
2500	0.03	0.87	0.92	1.03	0.99	0.97	1.57	2.07
3000	0.01	0.69	0.70	0.73	0.52	0.46	1.01	1.29
3500	-0.01	0.13	0.00	-0.04	-0.49	-0.64	-0.15	0.29
4000	0.00	-0.07	-0.37	-0.40	-0.93	-1.26	-1.18	-0.76
4500	0.00	0.01	-0.46	-0.31	-0.71	-0.93	-1.88	-1.50
5000	0.00	-0.09	-0.65	-0.41	-0.94	-1.04	-2.30	-1.96
5500	-0.02	-0.62	-0.82	-1.08	-1.80	-1.96	-1.93	-1.80
6000	0.00	-0.28	0.08	-0.61	-1.04	-1.00	0.31	1.54

Notes

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Programmable Attenuator RUDAT-6000-90

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	1.88	1.24	1.18	1.05	1.05	1.04	1.02	1.02
5	1.86	1.23	1.18	1.03	1.03	1.01	1.01	1.02
10	1.86	1.23	1.17	1.03	1.03	1.00	1.01	1.01
20	1.85	1.23	1.17	1.03	1.03	1.00	1.00	1.01
50	1.85	1.23	1.18	1.02	1.03	1.00	1.00	1.01
100	1.83	1.23	1.18	1.02	1.02	1.01	1.01	1.02
200	1.78	1.23	1.18	1.02	1.02	1.01	1.01	1.02
500	1.51	1.17	1.15	1.01	1.01	1.02	1.02	1.03
750	1.29	1.13	1.13	1.01	1.01	1.03	1.03	1.04
1000	1.16	1.11	1.12	1.01	1.01	1.03	1.03	1.05
1500	1.24	1.14	1.12	1.03	1.03	1.05	1.05	1.05
2000	1.18	1.14	1.14	1.06	1.06	1.07	1.07	1.06
2500	1.42	1.23	1.22	1.13	1.13	1.12	1.12	1.09
3000	1.84	1.31	1.28	1.21	1.21	1.19	1.19	1.17
3500	1.66	1.24	1.27	1.32	1.32	1.30	1.30	1.28
4000	1.16	1.19	1.24	1.45	1.45	1.43	1.43	1.42
4500	1.05	1.35	1.33	1.60	1.60	1.58	1.58	1.59
5000	1.13	1.46	1.44	1.75	1.75	1.74	1.74	1.76
5500	1.26	1.49	1.55	1.93	1.93	1.92	1.92	1.95
6000	2.02	1.78	1.81	2.12	2.12	2.12	2.12	2.17

FREQUENCY (MHz)	Output VSWR (:1)							
	0.25 dB	10 dB	15 dB	30 dB	45 dB	60 dB	75 dB	90 dB
1	1.82	1.21	1.08	1.20	1.04	1.04	1.04	1.03
5	1.80	1.20	1.06	1.19	1.02	1.01	1.03	1.03
10	1.80	1.20	1.06	1.19	1.02	1.00	1.03	1.03
20	1.80	1.20	1.06	1.19	1.02	1.00	1.02	1.02
50	1.79	1.20	1.06	1.19	1.02	1.00	1.02	1.02
100	1.78	1.21	1.07	1.19	1.02	1.01	1.02	1.02
200	1.72	1.20	1.07	1.19	1.03	1.01	1.01	1.02
500	1.44	1.15	1.05	1.15	1.02	1.01	1.02	1.02
750	1.23	1.11	1.04	1.11	1.02	1.02	1.02	1.02
1000	1.12	1.08	1.04	1.09	1.03	1.03	1.03	1.03
1500	1.20	1.07	1.07	1.06	1.05	1.05	1.06	1.06
2000	1.15	1.13	1.12	1.13	1.10	1.09	1.11	1.11
2500	1.40	1.22	1.20	1.23	1.14	1.13	1.16	1.16
3000	1.81	1.33	1.29	1.31	1.21	1.19	1.23	1.23
3500	1.62	1.28	1.31	1.29	1.27	1.27	1.31	1.31
4000	1.16	1.13	1.29	1.13	1.33	1.36	1.40	1.40
4500	1.04	1.28	1.34	1.28	1.44	1.47	1.49	1.50
5000	1.12	1.37	1.43	1.39	1.56	1.59	1.60	1.60
5500	1.17	1.39	1.54	1.37	1.70	1.75	1.74	1.75
6000	1.90	1.74	1.74	1.76	1.88	1.93	1.90	1.90

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Programmable Attenuator RUDAT-6000-90

Typical Performance Data @ 0°C

FREQUENCY (MHz)	IP3 (dBm)	Insertion Loss @P _{IN} =0 dBm (dB)	Insertion Loss @P _{IN} =+20 dBm (dB)
1	47.49	3.18	3.07
200	51.11	3.97	3.87
500	56.69	4.25	4.15
1000	57.19	4.61	4.51
2000	57.69	5.33	5.22
3000	53.70	5.73	5.63
4000	49.71	6.13	6.03
5000	48.33	8.29	8.20
6000	46.95	10.44	10.37

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Programmable Attenuator RUDAT-6000-90

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	0.26	9.44	14.53	29.15	44.15	59.05	73.54	86.46
5	0.26	9.44	14.53	29.16	44.17	59.12	73.58	86.69
10	0.26	9.44	14.54	29.16	44.15	59.09	73.57	87.28
20	0.26	9.45	14.54	29.16	44.16	59.07	73.48	87.88
50	0.26	9.43	14.52	29.14	44.14	59.05	73.43	87.70
100	0.26	9.44	14.52	29.15	44.15	59.06	73.44	87.83
200	0.25	9.40	14.47	29.11	44.10	59.01	73.40	87.74
500	0.24	9.24	14.25	28.94	43.84	58.72	73.11	87.61
750	0.23	9.15	14.12	28.84	43.69	58.57	72.93	87.34
1000	0.23	9.14	14.07	28.83	43.65	58.56	72.89	87.30
1500	0.23	9.18	14.10	28.92	43.76	58.66	73.02	87.41
2000	0.22	9.15	14.07	28.93	43.83	58.79	73.13	87.66
2500	0.22	9.09	14.01	28.92	43.95	58.95	73.35	88.00
3000	0.23	9.25	14.22	29.19	44.42	59.45	73.93	88.50
3500	0.25	9.77	14.87	29.93	45.36	60.57	75.07	89.55
4000	0.24	9.97	15.22	30.29	45.80	61.10	76.03	90.66
4500	0.24	9.89	15.31	30.23	45.60	60.87	76.72	91.22
5000	0.24	9.99	15.47	30.32	45.86	61.02	77.12	91.94
5500	0.26	10.46	15.59	30.93	46.62	61.73	76.72	91.39
6000	0.24	10.16	14.77	30.51	45.89	60.95	74.62	88.48

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	-0.01	0.56	0.47	0.85	0.85	0.95	1.46	3.54
5	-0.01	0.56	0.47	0.84	0.83	0.88	1.42	3.31
10	-0.01	0.56	0.46	0.84	0.85	0.91	1.43	2.72
20	-0.01	0.55	0.46	0.84	0.84	0.93	1.52	2.12
50	-0.01	0.57	0.48	0.86	0.86	0.95	1.57	2.30
100	-0.01	0.56	0.48	0.85	0.85	0.94	1.56	2.17
200	0.00	0.60	0.53	0.89	0.90	0.99	1.60	2.26
500	0.01	0.76	0.75	1.06	1.16	1.28	1.89	2.39
750	0.02	0.85	0.88	1.16	1.31	1.43	2.07	2.66
1000	0.02	0.86	0.93	1.17	1.35	1.44	2.11	2.70
1500	0.02	0.82	0.90	1.08	1.24	1.34	1.98	2.59
2000	0.03	0.85	0.93	1.07	1.17	1.21	1.87	2.34
2500	0.03	0.91	0.99	1.08	1.05	1.05	1.65	2.00
3000	0.02	0.75	0.78	0.81	0.58	0.55	1.07	1.50
3500	0.00	0.23	0.13	0.07	-0.36	-0.57	-0.07	0.45
4000	0.01	0.03	-0.22	-0.29	-0.80	-1.10	-1.03	-0.66
4500	0.01	0.11	-0.31	-0.23	-0.60	-0.87	-1.72	-1.22
5000	0.01	0.01	-0.47	-0.32	-0.86	-1.02	-2.12	-1.94
5500	-0.01	-0.46	-0.59	-0.93	-1.62	-1.73	-1.72	-1.39
6000	0.01	-0.16	0.23	-0.51	-0.89	-0.95	0.38	1.52

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Programmable Attenuator RUDAT-6000-90

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	1.92	1.28	1.22	1.04	1.04	1.05	1.04	1.05
5	1.90	1.27	1.22	1.01	1.01	1.04	1.04	1.05
10	1.90	1.27	1.22	1.01	1.01	1.03	1.04	1.05
20	1.90	1.27	1.21	1.01	1.01	1.03	1.03	1.05
50	1.89	1.27	1.21	1.01	1.01	1.03	1.04	1.05
100	1.87	1.27	1.21	1.01	1.01	1.03	1.04	1.05
200	1.80	1.26	1.20	1.01	1.01	1.04	1.04	1.05
500	1.52	1.20	1.18	1.02	1.02	1.05	1.05	1.06
750	1.29	1.15	1.15	1.03	1.03	1.06	1.06	1.07
1000	1.17	1.14	1.14	1.04	1.04	1.07	1.07	1.08
1500	1.25	1.17	1.15	1.05	1.05	1.08	1.08	1.09
2000	1.19	1.15	1.16	1.07	1.07	1.09	1.09	1.08
2500	1.44	1.24	1.23	1.11	1.11	1.11	1.11	1.09
3000	1.84	1.31	1.28	1.18	1.18	1.17	1.16	1.14
3500	1.67	1.24	1.26	1.28	1.28	1.27	1.26	1.24
4000	1.15	1.18	1.23	1.42	1.42	1.40	1.40	1.39
4500	1.07	1.34	1.33	1.57	1.58	1.56	1.56	1.56
5000	1.16	1.47	1.46	1.75	1.75	1.74	1.74	1.75
5500	1.25	1.51	1.57	1.92	1.92	1.91	1.91	1.94
6000	1.97	1.77	1.80	2.08	2.09	2.08	2.08	2.13

FREQUENCY (MHz)	Output VSWR (:1)							
	0.25 dB	10 dB	15 dB	30 dB	45 dB	60 dB	75 dB	90 dB
1	1.86	1.25	1.11	1.24	1.06	1.05	1.02	1.02
5	1.84	1.24	1.10	1.23	1.05	1.03	1.02	1.01
10	1.84	1.24	1.09	1.23	1.05	1.03	1.01	1.01
20	1.84	1.24	1.09	1.23	1.05	1.03	1.01	1.01
50	1.83	1.24	1.09	1.23	1.05	1.03	1.01	1.01
100	1.81	1.24	1.09	1.23	1.05	1.03	1.01	1.01
200	1.75	1.23	1.09	1.22	1.05	1.03	1.01	1.01
500	1.46	1.18	1.08	1.18	1.05	1.04	1.02	1.02
750	1.24	1.13	1.07	1.13	1.05	1.05	1.03	1.03
1000	1.13	1.09	1.07	1.10	1.06	1.05	1.04	1.04
1500	1.20	1.09	1.08	1.08	1.07	1.07	1.07	1.07
2000	1.15	1.13	1.12	1.13	1.10	1.09	1.10	1.10
2500	1.40	1.23	1.20	1.24	1.14	1.12	1.15	1.15
3000	1.82	1.35	1.29	1.33	1.20	1.18	1.22	1.22
3500	1.64	1.30	1.32	1.31	1.25	1.25	1.30	1.30
4000	1.16	1.15	1.30	1.15	1.32	1.35	1.39	1.39
4500	1.07	1.29	1.36	1.30	1.45	1.47	1.50	1.50
5000	1.17	1.40	1.46	1.42	1.58	1.61	1.61	1.62
5500	1.19	1.42	1.55	1.40	1.70	1.75	1.74	1.74
6000	1.88	1.73	1.72	1.75	1.85	1.89	1.86	1.86

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Typical Performance Data @ +25°C

FREQUENCY (MHz)	IP3 (dBm)	Insertion Loss @P _{IN} =0 dBm (dB)	Insertion Loss @P _{IN} =+20 dBm (dB)
1	47.32	3.33	3.20
200	50.88	4.03	3.92
500	54.40	4.33	4.24
1000	55.91	4.70	4.61
2000	57.41	5.44	5.35
3000	53.72	5.84	5.73
4000	50.03	6.23	6.11
5000	47.72	8.39	8.29
6000	45.40	10.54	10.46

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Programmable Attenuator RUDAT-6000-90

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	0.26	9.39	14.46	29.08	44.04	58.91	73.38	88.21
5	0.26	9.39	14.47	29.10	44.02	58.99	73.38	88.28
10	0.26	9.40	14.47	29.10	44.08	58.98	73.34	88.35
20	0.26	9.40	14.47	29.09	44.09	58.98	73.36	87.71
50	0.26	9.38	14.45	29.08	44.06	58.93	73.34	87.76
100	0.26	9.39	14.46	29.10	44.08	58.97	73.36	87.77
200	0.25	9.36	14.41	29.07	44.02	58.91	73.28	87.68
500	0.24	9.21	14.19	28.90	43.76	58.64	72.95	87.54
750	0.23	9.13	14.06	28.82	43.63	58.51	72.81	87.11
1000	0.22	9.12	14.02	28.82	43.61	58.48	72.76	87.11
1500	0.23	9.15	14.06	28.90	43.72	58.61	72.89	87.39
2000	0.22	9.13	14.03	28.93	43.80	58.77	73.07	87.65
2500	0.22	9.07	13.97	28.90	43.92	58.92	73.25	87.85
3000	0.23	9.23	14.19	29.18	44.40	59.44	73.89	88.32
3500	0.25	9.72	14.80	29.88	45.29	60.47	74.96	89.61
4000	0.24	9.89	15.10	30.21	45.69	60.96	75.86	90.57
4500	0.24	9.82	15.18	30.16	45.53	60.81	76.51	91.35
5000	0.24	9.91	15.34	30.25	45.77	60.97	76.88	91.33
5500	0.26	10.35	15.43	30.83	46.46	61.65	76.38	91.33
6000	0.24	10.15	14.75	30.53	45.89	61.00	74.59	89.15

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	-0.01	0.61	0.54	0.92	0.96	1.09	1.62	1.79
5	-0.01	0.61	0.53	0.90	0.98	1.01	1.62	1.72
10	-0.01	0.60	0.53	0.90	0.92	1.02	1.66	1.65
20	-0.01	0.60	0.53	0.91	0.91	1.02	1.64	2.29
50	-0.01	0.62	0.55	0.92	0.94	1.07	1.66	2.24
100	-0.01	0.61	0.54	0.90	0.92	1.03	1.64	2.23
200	0.00	0.64	0.59	0.93	0.98	1.09	1.72	2.32
500	0.01	0.79	0.81	1.10	1.24	1.36	2.05	2.46
750	0.02	0.87	0.94	1.18	1.37	1.49	2.19	2.89
1000	0.03	0.88	0.98	1.18	1.39	1.52	2.24	2.89
1500	0.02	0.85	0.94	1.10	1.28	1.39	2.11	2.61
2000	0.03	0.87	0.97	1.07	1.20	1.23	1.93	2.35
2500	0.03	0.93	1.03	1.10	1.08	1.08	1.75	2.15
3000	0.02	0.77	0.81	0.82	0.60	0.56	1.11	1.68
3500	0.00	0.28	0.20	0.12	-0.29	-0.47	0.04	0.39
4000	0.01	0.11	-0.10	-0.21	-0.69	-0.96	-0.86	-0.57
4500	0.01	0.18	-0.18	-0.16	-0.53	-0.81	-1.51	-1.35
5000	0.01	0.09	-0.34	-0.25	-0.77	-0.97	-1.88	-1.33
5500	-0.01	-0.35	-0.43	-0.83	-1.46	-1.65	-1.38	-1.33
6000	0.01	-0.15	0.25	-0.53	-0.89	-1.00	0.41	0.85

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Programmable Attenuator RUDAT-6000-90

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	1.96	1.32	1.26	1.06	1.05	1.08	1.08	1.09
5	1.94	1.31	1.25	1.04	1.04	1.07	1.07	1.08
10	1.94	1.31	1.25	1.04	1.04	1.07	1.07	1.08
20	1.94	1.31	1.25	1.04	1.04	1.07	1.07	1.08
50	1.93	1.31	1.25	1.04	1.04	1.07	1.07	1.08
100	1.91	1.30	1.25	1.04	1.04	1.07	1.07	1.08
200	1.84	1.29	1.24	1.04	1.04	1.07	1.07	1.08
500	1.54	1.23	1.21	1.05	1.05	1.08	1.08	1.09
750	1.31	1.18	1.18	1.06	1.07	1.09	1.09	1.11
1000	1.18	1.16	1.17	1.07	1.08	1.10	1.10	1.12
1500	1.25	1.20	1.18	1.09	1.09	1.12	1.12	1.12
2000	1.20	1.17	1.18	1.09	1.10	1.11	1.12	1.11
2500	1.45	1.25	1.24	1.11	1.11	1.12	1.12	1.09
3000	1.84	1.31	1.28	1.16	1.16	1.15	1.15	1.12
3500	1.64	1.22	1.24	1.25	1.25	1.23	1.23	1.21
4000	1.15	1.16	1.21	1.38	1.38	1.36	1.36	1.35
4500	1.07	1.32	1.30	1.53	1.53	1.51	1.51	1.52
5000	1.15	1.45	1.43	1.70	1.70	1.68	1.68	1.70
5500	1.24	1.49	1.54	1.86	1.87	1.86	1.86	1.89
6000	1.87	1.74	1.76	2.04	2.04	2.04	2.04	2.09

FREQUENCY (MHz)	Output VSWR (:1)							
	0.25 dB	10 dB	15 dB	30 dB	45 dB	60 dB	75 dB	90 dB
1	1.90	1.29	1.14	1.28	1.09	1.08	1.05	1.05
5	1.88	1.28	1.13	1.28	1.08	1.07	1.05	1.05
10	1.88	1.28	1.13	1.28	1.08	1.07	1.04	1.04
20	1.88	1.28	1.13	1.27	1.08	1.07	1.04	1.04
50	1.87	1.28	1.13	1.27	1.08	1.07	1.04	1.04
100	1.84	1.27	1.12	1.27	1.08	1.06	1.04	1.04
200	1.77	1.26	1.12	1.25	1.08	1.06	1.04	1.04
500	1.48	1.21	1.11	1.21	1.09	1.07	1.05	1.05
750	1.25	1.15	1.10	1.16	1.09	1.08	1.06	1.06
1000	1.14	1.12	1.09	1.12	1.09	1.09	1.07	1.07
1500	1.22	1.12	1.11	1.12	1.10	1.11	1.10	1.10
2000	1.16	1.15	1.15	1.15	1.13	1.12	1.13	1.13
2500	1.42	1.25	1.22	1.26	1.15	1.14	1.17	1.17
3000	1.80	1.34	1.29	1.33	1.18	1.16	1.21	1.21
3500	1.61	1.28	1.29	1.28	1.22	1.21	1.26	1.26
4000	1.16	1.13	1.27	1.13	1.27	1.29	1.34	1.34
4500	1.05	1.26	1.32	1.26	1.39	1.42	1.45	1.45
5000	1.18	1.39	1.44	1.41	1.54	1.57	1.58	1.59
5500	1.18	1.41	1.54	1.39	1.68	1.73	1.72	1.73
6000	1.82	1.71	1.70	1.72	1.83	1.88	1.84	1.85

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Programmable Attenuator RUDAT-6000-90

Typical Performance Data @ +50°C

FREQUENCY (MHz)	IP3 (dBm)	Insertion Loss @P _{IN} =0 dBm (dB)	Insertion Loss @P _{IN} =+20 dBm (dB)
1	47.01	3.46	3.35
200	50.64	4.24	4.14
500	54.93	4.55	4.48
1000	56.34	4.94	4.87
2000	57.74	5.71	5.64
3000	53.96	6.14	6.06
4000	50.18	6.56	6.47
5000	47.79	8.75	8.66
6000	45.39	10.93	10.84

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