

Programmable Attenuator RUDAT-6000-60

Typical Performance Data @ 0°C

FREQUENCY (MHz)	Attenuation relative to Insertion Loss (dB)							
	0.25 dB	10 dB	15 dB	20 dB	30 dB	40 dB	50 dB	60 dB
1	0.25	9.68	14.66	19.19	28.72	38.99	48.74	58.76
5	0.25	9.69	14.67	19.20	28.72	39.00	48.75	58.80
10	0.25	9.69	14.67	19.20	28.73	39.00	48.76	58.77
20	0.25	9.69	14.67	19.20	28.73	39.00	48.74	58.75
50	0.25	9.68	14.66	19.19	28.72	38.99	48.74	58.76
100	0.25	9.68	14.66	19.19	28.71	38.98	48.74	58.76
200	0.25	9.64	14.61	19.15	28.67	38.94	48.70	58.72
500	0.24	9.53	14.46	19.00	28.51	38.77	48.55	58.54
750	0.23	9.44	14.34	18.88	28.39	38.64	48.42	58.40
1000	0.23	9.42	14.31	18.86	28.38	38.61	48.41	58.41
1500	0.23	9.53	14.46	19.03	28.57	38.80	48.63	58.66
2000	0.24	9.66	14.64	19.27	28.84	39.08	48.98	59.10
2500	0.23	9.73	14.73	19.45	29.06	39.29	49.30	59.47
3000	0.23	9.66	14.62	19.43	29.07	39.25	49.37	59.58
3500	0.23	9.80	14.78	19.64	29.33	39.39	49.58	59.81
4000	0.25	10.30	15.41	20.43	30.22	40.28	50.51	60.77
4500	0.26	10.68	15.86	21.19	31.04	41.14	51.50	61.58
5000	0.26	10.67	15.66	21.19	30.98	40.82	51.34	61.17
5500	0.22	10.15	14.99	20.50	30.31	39.57	49.98	59.77
6000	0.24	10.64	15.66	21.45	31.38	40.40	50.61	60.13

FREQUENCY (MHz)	Attenuation accuracy relative to nominal attenuation setting (dB)							
	0.25 dB	10 dB	15 dB	20 dB	30 dB	40 dB	50 dB	60 dB
1	0.00	0.32	0.34	0.81	1.28	1.01	1.26	1.24
5	0.00	0.31	0.33	0.80	1.28	1.00	1.25	1.20
10	0.00	0.31	0.33	0.80	1.27	1.00	1.24	1.23
20	0.00	0.31	0.33	0.80	1.27	1.00	1.26	1.25
50	0.00	0.32	0.34	0.81	1.28	1.01	1.26	1.24
100	0.00	0.32	0.34	0.81	1.29	1.02	1.26	1.24
200	0.00	0.36	0.39	0.85	1.33	1.06	1.30	1.28
500	0.01	0.47	0.54	1.00	1.49	1.23	1.45	1.46
750	0.02	0.56	0.66	1.12	1.61	1.36	1.58	1.60
1000	0.02	0.58	0.69	1.14	1.63	1.39	1.59	1.59
1500	0.02	0.47	0.54	0.97	1.43	1.20	1.37	1.34
2000	0.01	0.34	0.36	0.73	1.16	0.92	1.02	0.90
2500	0.02	0.27	0.27	0.55	0.94	0.71	0.70	0.53
3000	0.02	0.34	0.38	0.57	0.93	0.75	0.63	0.42
3500	0.02	0.20	0.22	0.36	0.67	0.61	0.42	0.19
4000	0.00	-0.30	-0.41	-0.43	-0.22	-0.28	-0.51	-0.77
4500	-0.01	-0.68	-0.86	-1.19	-1.04	-1.14	-1.50	-1.58
5000	-0.01	-0.67	-0.66	-1.19	-0.98	-0.82	-1.34	-1.17
5500	0.03	-0.15	0.01	-0.50	-0.31	0.43	0.02	0.23
6000	0.01	-0.64	-0.66	-1.45	-1.38	-0.40	-0.61	-0.13

Notes

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Programmable Attenuator RUDAT-6000-60

Typical Performance Data @ 0°C

FREQUENCY (MHz)	Input VSWR (:1)							
	0.25 dB	10 dB	15 dB	20 dB	30 dB	40 dB	50 dB	60 dB
1	1.55	1.25	1.17	1.10	1.16	1.04	1.05	1.04
5	1.53	1.25	1.16	1.09	1.15	1.01	1.04	1.01
10	1.53	1.25	1.16	1.09	1.15	1.01	1.04	1.01
20	1.53	1.25	1.16	1.09	1.15	1.01	1.04	1.00
50	1.53	1.25	1.16	1.09	1.15	1.01	1.04	1.01
100	1.52	1.25	1.16	1.09	1.15	1.01	1.04	1.01
200	1.49	1.24	1.17	1.10	1.16	1.02	1.05	1.02
500	1.29	1.18	1.14	1.09	1.15	1.01	1.05	1.01
750	1.11	1.14	1.12	1.08	1.15	1.02	1.05	1.02
1000	1.07	1.12	1.11	1.08	1.15	1.02	1.06	1.02
1500	1.44	1.22	1.16	1.11	1.16	1.03	1.06	1.03
2000	1.65	1.31	1.22	1.16	1.18	1.05	1.07	1.05
2500	1.43	1.28	1.22	1.17	1.17	1.09	1.07	1.09
3000	1.31	1.21	1.18	1.17	1.16	1.15	1.11	1.15
3500	1.54	1.28	1.25	1.26	1.20	1.25	1.21	1.25
4000	1.45	1.32	1.32	1.36	1.29	1.39	1.36	1.39
4500	1.25	1.22	1.31	1.41	1.41	1.55	1.54	1.56
5000	1.15	1.38	1.46	1.58	1.58	1.75	1.77	1.76
5500	1.70	1.73	1.75	1.83	1.80	1.98	2.02	1.99
6000	1.62	1.76	1.84	1.96	2.00	2.23	2.29	2.22

FREQUENCY (MHz)	Output VSWR (:1)							
	0.25 dB	10 dB	15 dB	20 dB	30 dB	40 dB	50 dB	60 dB
1	1.57	1.13	1.06	1.08	1.04	1.07	1.06	1.04
5	1.55	1.12	1.05	1.07	1.01	1.06	1.04	1.02
10	1.55	1.12	1.04	1.07	1.00	1.06	1.04	1.01
20	1.55	1.12	1.04	1.07	1.00	1.06	1.04	1.01
50	1.55	1.12	1.05	1.07	1.00	1.06	1.04	1.02
100	1.54	1.12	1.05	1.07	1.00	1.06	1.05	1.02
200	1.50	1.12	1.05	1.08	1.01	1.07	1.06	1.03
500	1.26	1.07	1.04	1.06	1.03	1.06	1.05	1.03
750	1.05	1.04	1.03	1.05	1.03	1.06	1.05	1.03
1000	1.16	1.07	1.06	1.06	1.04	1.06	1.05	1.04
1500	1.57	1.18	1.13	1.10	1.08	1.07	1.07	1.06
2000	1.72	1.25	1.20	1.14	1.15	1.09	1.10	1.11
2500	1.40	1.19	1.19	1.14	1.19	1.11	1.12	1.15
3000	1.30	1.18	1.22	1.16	1.23	1.16	1.17	1.20
3500	1.62	1.26	1.31	1.23	1.31	1.25	1.24	1.27
4000	1.46	1.22	1.32	1.29	1.38	1.37	1.35	1.36
4500	1.16	1.18	1.33	1.37	1.47	1.52	1.49	1.48
5000	1.27	1.40	1.48	1.55	1.60	1.69	1.65	1.62
5500	1.68	1.67	1.70	1.81	1.78	1.92	1.87	1.81
6000	1.67	1.77	1.83	2.01	1.98	2.21	2.15	2.05

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Programmable Attenuator RUDAT-6000-60

Typical Performance Data @ 0°C

FREQUENCY (MHz)	IP3 (dBm)	Insertion Loss @P _{IN} =0 dBm (dB)	Insertion Loss @P _{IN} =+20 dBm (dB)
1	49.80	-	-
200	53.56	2.26	2.10
500	54.05	3.10	2.94
1000	54.77	3.35	3.21
2000	55.49	3.55	3.42
3000	53.69	3.96	3.83
4000	51.89	4.42	4.26
5000	49.96	4.88	4.68
6000	48.03	5.61	5.45

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Programmable Attenuator RUDAT-6000-60

Typical Performance Data @ +25°C

FREQUENCY (MHz)	Attenuation relative to Insertion Loss (dB)							
	0.25 dB	10 dB	15 dB	20 dB	30 dB	40 dB	50 dB	60 dB
1	0.25	9.65	14.62	19.17	28.69	38.97	48.76	58.77
5	0.25	9.66	14.63	19.18	28.69	38.98	48.76	58.72
10	0.25	9.66	14.63	19.18	28.70	38.99	48.76	58.78
20	0.25	9.66	14.63	19.18	28.70	38.99	48.76	58.76
50	0.25	9.66	14.63	19.17	28.69	38.98	48.75	58.71
100	0.25	9.65	14.62	19.18	28.69	38.98	48.75	58.74
200	0.25	9.63	14.59	19.14	28.65	38.95	48.72	58.69
500	0.23	9.50	14.42	18.97	28.48	38.76	48.56	58.53
750	0.23	9.43	14.31	18.87	28.37	38.63	48.44	58.40
1000	0.22	9.41	14.30	18.86	28.36	38.62	48.43	58.43
1500	0.23	9.52	14.44	19.03	28.56	38.81	48.66	58.70
2000	0.24	9.64	14.60	19.25	28.81	39.06	48.98	59.09
2500	0.23	9.70	14.68	19.41	29.01	39.25	49.28	59.43
3000	0.22	9.64	14.58	19.40	29.03	39.22	49.37	59.53
3500	0.23	9.78	14.75	19.63	29.31	39.39	49.62	59.88
4000	0.24	10.25	15.35	20.38	30.16	40.23	50.49	60.74
4500	0.25	10.62	15.76	21.10	30.93	41.04	51.46	61.56
5000	0.26	10.62	15.59	21.13	30.91	40.75	51.33	61.21
5500	0.22	10.15	14.98	20.50	30.32	39.59	50.10	59.87
6000	0.24	10.63	15.64	21.43	31.37	40.40	50.71	60.29

FREQUENCY (MHz)	Attenuation accuracy relative to nominal attenuation setting (dB)							
	0.25 dB	10 dB	15 dB	20 dB	30 dB	40 dB	50 dB	60 dB
1	0.00	0.35	0.38	0.83	1.31	1.03	1.24	1.23
5	0.00	0.34	0.37	0.82	1.31	1.02	1.24	1.28
10	0.00	0.34	0.37	0.82	1.30	1.01	1.24	1.22
20	0.00	0.34	0.37	0.82	1.30	1.01	1.24	1.24
50	0.00	0.34	0.38	0.83	1.31	1.02	1.25	1.29
100	0.00	0.35	0.38	0.82	1.31	1.02	1.25	1.26
200	0.00	0.37	0.41	0.86	1.35	1.05	1.28	1.31
500	0.02	0.50	0.58	1.03	1.52	1.24	1.44	1.47
750	0.02	0.57	0.69	1.13	1.63	1.37	1.56	1.60
1000	0.03	0.59	0.70	1.14	1.64	1.38	1.57	1.57
1500	0.02	0.48	0.56	0.97	1.44	1.19	1.34	1.30
2000	0.01	0.36	0.40	0.75	1.19	0.94	1.02	0.91
2500	0.02	0.30	0.32	0.59	0.99	0.75	0.72	0.57
3000	0.03	0.36	0.42	0.60	0.97	0.78	0.63	0.47
3500	0.02	0.22	0.25	0.37	0.69	0.61	0.38	0.12
4000	0.01	-0.25	-0.35	-0.38	-0.16	-0.23	-0.49	-0.74
4500	0.00	-0.62	-0.76	-1.10	-0.93	-1.04	-1.46	-1.56
5000	-0.01	-0.62	-0.59	-1.13	-0.91	-0.75	-1.33	-1.21
5500	0.03	-0.15	0.02	-0.50	-0.32	0.41	-0.10	0.13
6000	0.01	-0.63	-0.64	-1.43	-1.37	-0.40	-0.71	-0.29

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Programmable Attenuator RUDAT-6000-60

Typical Performance Data @ +25°C

FREQUENCY (MHz)	Input VSWR (:1)							
	0.25 dB	10 dB	15 dB	20 dB	30 dB	40 dB	50 dB	60 dB
1	1.56	1.28	1.20	1.13	1.19	1.05	1.08	1.05
5	1.55	1.28	1.19	1.12	1.19	1.04	1.07	1.03
10	1.55	1.28	1.19	1.12	1.18	1.03	1.07	1.03
20	1.55	1.28	1.19	1.12	1.18	1.03	1.07	1.03
50	1.55	1.28	1.19	1.12	1.18	1.04	1.07	1.03
100	1.54	1.27	1.19	1.12	1.18	1.04	1.07	1.03
200	1.50	1.26	1.18	1.12	1.18	1.04	1.07	1.04
500	1.30	1.21	1.16	1.11	1.18	1.04	1.08	1.04
750	1.11	1.16	1.14	1.11	1.18	1.05	1.09	1.05
1000	1.07	1.14	1.14	1.11	1.19	1.06	1.09	1.06
1500	1.45	1.25	1.19	1.14	1.20	1.07	1.10	1.07
2000	1.65	1.32	1.24	1.18	1.20	1.08	1.09	1.07
2500	1.43	1.29	1.23	1.19	1.19	1.09	1.08	1.09
3000	1.32	1.22	1.19	1.18	1.17	1.14	1.10	1.14
3500	1.55	1.27	1.24	1.25	1.18	1.23	1.18	1.23
4000	1.45	1.31	1.31	1.34	1.27	1.36	1.33	1.36
4500	1.24	1.21	1.30	1.39	1.38	1.52	1.51	1.53
5000	1.14	1.38	1.45	1.56	1.56	1.72	1.73	1.73
5500	1.69	1.73	1.74	1.81	1.79	1.96	1.99	1.96
6000	1.63	1.77	1.85	1.96	2.00	2.21	2.28	2.21

FREQUENCY (MHz)	Output VSWR (:1)							
	0.25 dB	10 dB	15 dB	20 dB	30 dB	40 dB	50 dB	60 dB
1	1.59	1.16	1.08	1.11	1.05	1.10	1.08	1.06
5	1.57	1.15	1.07	1.10	1.03	1.09	1.07	1.04
10	1.57	1.15	1.07	1.10	1.03	1.09	1.07	1.04
20	1.57	1.15	1.07	1.10	1.03	1.09	1.07	1.04
50	1.57	1.15	1.07	1.10	1.03	1.09	1.07	1.04
100	1.55	1.14	1.07	1.10	1.03	1.09	1.07	1.04
200	1.51	1.14	1.07	1.10	1.03	1.09	1.08	1.05
500	1.27	1.10	1.06	1.09	1.04	1.09	1.08	1.05
750	1.05	1.06	1.05	1.08	1.05	1.09	1.08	1.06
1000	1.16	1.09	1.07	1.09	1.06	1.09	1.09	1.07
1500	1.59	1.21	1.15	1.13	1.10	1.10	1.09	1.09
2000	1.71	1.26	1.21	1.15	1.15	1.10	1.10	1.11
2500	1.40	1.20	1.20	1.14	1.18	1.11	1.12	1.14
3000	1.31	1.19	1.22	1.15	1.23	1.15	1.15	1.18
3500	1.63	1.26	1.30	1.21	1.29	1.22	1.21	1.24
4000	1.46	1.21	1.30	1.26	1.36	1.33	1.31	1.32
4500	1.15	1.17	1.31	1.34	1.45	1.48	1.45	1.44
5000	1.25	1.39	1.48	1.54	1.59	1.67	1.63	1.60
5500	1.67	1.67	1.71	1.81	1.78	1.93	1.87	1.80
6000	1.68	1.78	1.83	2.02	1.98	2.21	2.15	2.05

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Programmable Attenuator RUDAT-6000-60

Typical Performance Data @ +25°C

FREQUENCY (MHz)	IP3 (dBm)	Insertion Loss @P _{IN} =0 dBm (dB)	Insertion Loss @P _{IN} =+20 dBm (dB)
1	49.10	-	-
200	53.40	2.40	2.24
500	55.78	3.07	2.91
1000	55.44	3.21	3.08
2000	55.09	3.46	3.33
3000	53.45	3.96	3.84
4000	51.81	4.39	4.25
5000	47.97	4.82	4.66
6000	44.12	5.71	5.58

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Programmable Attenuator RUDAT-6000-60

Typical Performance Data @ +50°C

FREQUENCY (MHz)	Attenuation relative to Insertion Loss (dB)							
	0.25 dB	10 dB	15 dB	20 dB	30 dB	40 dB	50 dB	60 dB
1	0.25	9.60	14.54	19.10	28.59	38.90	48.68	58.60
5	0.25	9.61	14.56	19.11	28.60	38.91	48.69	58.67
10	0.25	9.61	14.56	19.11	28.60	38.91	48.68	58.64
20	0.25	9.61	14.56	19.12	28.61	38.92	48.68	58.64
50	0.25	9.60	14.55	19.11	28.60	38.91	48.68	58.62
100	0.25	9.61	14.55	19.12	28.60	38.92	48.69	58.65
200	0.25	9.58	14.52	19.08	28.57	38.88	48.66	58.60
500	0.23	9.46	14.35	18.91	28.39	38.68	48.48	58.42
750	0.22	9.39	14.25	18.82	28.30	38.57	48.38	58.30
1000	0.22	9.38	14.24	18.81	28.30	38.56	48.38	58.30
1500	0.23	9.47	14.38	18.98	28.48	38.74	48.59	58.59
2000	0.23	9.58	14.52	19.18	28.71	38.97	48.90	58.98
2500	0.23	9.63	14.58	19.31	28.89	39.12	49.16	59.30
3000	0.22	9.58	14.50	19.32	28.92	39.10	49.25	59.39
3500	0.23	9.71	14.66	19.54	29.19	39.28	49.52	59.76
4000	0.24	10.15	15.22	20.24	29.99	40.07	50.35	60.62
4500	0.25	10.51	15.63	20.94	30.76	40.86	51.32	61.44
5000	0.25	10.52	15.45	20.99	30.75	40.62	51.26	61.10
5500	0.22	10.05	14.85	20.38	30.18	39.48	50.07	59.90
6000	0.24	10.54	15.51	21.27	31.21	40.26	50.63	60.24

FREQUENCY (MHz)	Attenuation accuracy relative to nominal attenuation setting (dB)							
	0.25 dB	10 dB	15 dB	20 dB	30 dB	40 dB	50 dB	60 dB
1	0.00	0.40	0.46	0.90	1.41	1.10	1.32	1.40
5	0.00	0.39	0.44	0.89	1.40	1.09	1.31	1.33
10	0.00	0.39	0.44	0.89	1.40	1.09	1.32	1.36
20	0.00	0.39	0.44	0.88	1.39	1.08	1.32	1.36
50	0.00	0.40	0.45	0.89	1.40	1.09	1.32	1.38
100	0.00	0.39	0.45	0.88	1.40	1.08	1.31	1.35
200	0.00	0.42	0.48	0.92	1.43	1.12	1.34	1.40
500	0.02	0.54	0.65	1.09	1.61	1.32	1.52	1.58
750	0.03	0.61	0.75	1.18	1.70	1.43	1.62	1.70
1000	0.03	0.62	0.76	1.19	1.70	1.44	1.62	1.70
1500	0.02	0.53	0.62	1.02	1.52	1.26	1.41	1.41
2000	0.02	0.42	0.48	0.82	1.29	1.03	1.10	1.02
2500	0.02	0.37	0.42	0.69	1.11	0.88	0.84	0.70
3000	0.03	0.42	0.50	0.68	1.08	0.90	0.75	0.61
3500	0.02	0.29	0.34	0.46	0.81	0.72	0.48	0.24
4000	0.01	-0.15	-0.22	-0.24	0.01	-0.07	-0.35	-0.62
4500	0.00	-0.51	-0.63	-0.94	-0.76	-0.86	-1.32	-1.44
5000	0.00	-0.52	-0.45	-0.99	-0.75	-0.62	-1.26	-1.10
5500	0.03	-0.05	0.15	-0.38	-0.18	0.52	-0.07	0.10
6000	0.01	-0.54	-0.51	-1.27	-1.21	-0.26	-0.63	-0.24

Notes

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Programmable Attenuator RUDAT-6000-60

Typical Performance Data @ +50°C

FREQUENCY (MHz)	Input VSWR (:1)							
	0.25 dB	10 dB	15 dB	20 dB	30 dB	40 dB	50 dB	60 dB
1	1.60	1.33	1.24	1.17	1.24	1.08	1.12	1.08
5	1.58	1.33	1.24	1.16	1.23	1.07	1.11	1.07
10	1.58	1.33	1.24	1.16	1.23	1.07	1.11	1.07
20	1.58	1.32	1.24	1.16	1.23	1.07	1.11	1.07
50	1.58	1.32	1.23	1.16	1.23	1.07	1.11	1.07
100	1.57	1.31	1.23	1.16	1.22	1.07	1.11	1.07
200	1.52	1.30	1.22	1.15	1.22	1.07	1.10	1.07
500	1.31	1.24	1.20	1.15	1.22	1.08	1.12	1.08
750	1.11	1.18	1.17	1.14	1.22	1.08	1.12	1.09
1000	1.07	1.17	1.17	1.14	1.22	1.09	1.13	1.09
1500	1.46	1.28	1.22	1.17	1.24	1.10	1.14	1.10
2000	1.66	1.35	1.27	1.21	1.24	1.11	1.13	1.11
2500	1.44	1.32	1.26	1.21	1.23	1.11	1.11	1.11
3000	1.35	1.25	1.22	1.20	1.19	1.13	1.10	1.13
3500	1.57	1.28	1.25	1.25	1.18	1.21	1.16	1.21
4000	1.46	1.32	1.31	1.34	1.26	1.34	1.30	1.34
4500	1.23	1.22	1.30	1.39	1.37	1.51	1.49	1.51
5000	1.16	1.39	1.46	1.56	1.56	1.71	1.73	1.72
5500	1.73	1.73	1.74	1.80	1.78	1.94	1.98	1.94
6000	1.61	1.75	1.83	1.92	1.97	2.16	2.23	2.15

FREQUENCY (MHz)	Output VSWR (:1)							
	0.25 dB	10 dB	15 dB	20 dB	30 dB	40 dB	50 dB	60 dB
1	1.62	1.20	1.12	1.15	1.08	1.14	1.12	1.09
5	1.61	1.19	1.11	1.14	1.07	1.13	1.12	1.08
10	1.61	1.19	1.11	1.14	1.06	1.13	1.12	1.08
20	1.60	1.19	1.11	1.14	1.06	1.13	1.12	1.08
50	1.60	1.19	1.11	1.14	1.06	1.13	1.11	1.08
100	1.58	1.18	1.10	1.13	1.06	1.13	1.11	1.08
200	1.53	1.17	1.10	1.13	1.06	1.12	1.11	1.08
500	1.29	1.13	1.09	1.13	1.07	1.13	1.12	1.09
750	1.06	1.09	1.08	1.12	1.08	1.14	1.12	1.10
1000	1.17	1.11	1.10	1.12	1.09	1.14	1.13	1.10
1500	1.61	1.24	1.18	1.16	1.13	1.14	1.13	1.12
2000	1.71	1.29	1.23	1.18	1.17	1.12	1.13	1.13
2500	1.40	1.21	1.21	1.15	1.19	1.11	1.12	1.15
3000	1.31	1.19	1.22	1.14	1.21	1.12	1.12	1.16
3500	1.64	1.26	1.29	1.18	1.27	1.19	1.17	1.21
4000	1.47	1.20	1.29	1.22	1.33	1.29	1.26	1.28
4500	1.13	1.16	1.30	1.31	1.43	1.45	1.41	1.41
5000	1.25	1.38	1.46	1.51	1.57	1.65	1.60	1.57
5500	1.69	1.67	1.69	1.79	1.76	1.91	1.85	1.78
6000	1.66	1.76	1.80	1.98	1.93	2.17	2.11	2.00

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Programmable Attenuator RUDAT-6000-60

Typical Performance Data @ +50°C

FREQUENCY (MHz)	IP3 (dBm)	Insertion Loss @P _{IN} =0 dBm (dB)	Insertion Loss @P _{IN} =+20 dBm (dB)
1	48.32	-	-
200	53.74	2.51	2.34
500	54.22	3.33	3.17
1000	54.46	3.59	3.44
2000	54.70	3.82	3.67
3000	53.17	4.27	4.12
4000	51.63	4.83	4.66
5000	49.30	5.39	5.20
6000	46.96	6.12	5.96

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