

Voltage Variable Attenuator

RVA-2000+

Typical Performance Data

V CONTROL (V)	ATTENUATION @ 500 MHz (dB) @V+=5V
0.0	39.46
2.0	32.06
2.5	21.49
3.0	17.24
4.0	13.22
6.0	9.73
8.0	7.71
10.0	5.88
12.0	3.68
15.0	3.01
17.0	2.88

FREQ. (MHz)	ATTENUATION vs. V CONTROL @ V+=5V				
	(dB)				
	@V Control=0V	@V Control=2.5V	@V Control=4V	@V Control=8V	@V Control=17V
150	54.05	21.54	13.20	7.63	2.80
200	51.81	21.42	13.14	7.58	2.77
225	49.27	21.48	13.16	7.60	2.78
250	47.19	21.48	13.19	7.63	2.80
300	45.65	21.41	13.11	7.57	2.78
350	43.14	21.43	13.16	7.63	2.81
400	42.09	21.46	13.16	7.63	2.82
450	40.42	21.47	13.20	7.68	2.85
500	39.46	21.49	13.22	7.71	2.88
550	38.29	21.46	13.16	7.66	2.86
600	37.59	21.45	13.20	7.72	2.90
650	36.60	21.47	13.19	7.72	2.92
700	35.94	21.47	13.23	7.78	2.95
750	35.10	21.47	13.24	7.79	2.97
800	34.66	21.47	13.26	7.83	3.01
850	33.94	21.46	13.25	7.83	3.01
900	33.44	21.44	13.26	7.89	3.08
950	32.75	21.39	13.22	7.82	3.03
1000	32.42	21.44	13.30	7.96	3.14
1100	31.50	21.39	13.31	7.99	3.18
1200	30.60	21.41	13.32	8.01	3.23
1300	29.91	21.35	13.33	8.07	3.31
1400	29.26	21.26	13.38	8.19	3.43
1500	28.58	21.27	13.43	8.28	3.51
1600	27.98	21.21	13.44	8.32	3.56
1700	27.41	21.16	13.44	8.36	3.64
1800	26.82	21.14	13.56	8.56	3.81
1900	26.25	21.06	13.65	8.69	3.92
2000	25.66	21.00	13.74	8.80	4.01
2200	24.79	20.84	13.82	8.95	4.21
2400	23.90	20.69	14.04	9.25	4.47
2500	23.46	20.58	14.08	9.29	4.53

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FREQ. (MHz)	INPUT RETURN LOSS Vs. V CONTROL @ V+=5V				
	(dB)				
	@V Control=0V	@V Control=2.5V	@V Control=4V	@V Control=8V	@V Control=17V
150	16.45	21.41	18.12	15.20	21.25
200	16.90	23.13	18.97	15.68	23.82
225	17.14	23.95	19.28	15.85	25.08
250	17.33	24.61	19.46	15.94	26.18
300	17.39	25.20	19.77	16.15	27.85
350	17.59	26.08	20.04	16.33	29.94
400	17.65	26.25	20.21	16.48	31.06
450	17.69	26.61	20.42	16.66	32.68
500	17.72	26.66	20.53	16.79	33.10
550	17.66	26.66	20.68	16.94	33.33
600	17.65	26.64	20.81	17.10	33.12
650	17.63	26.57	20.95	17.28	32.18
700	17.55	26.48	21.20	17.52	31.15
750	17.57	26.54	21.30	17.69	30.31
800	17.47	26.31	21.53	17.95	29.09
850	17.49	26.39	21.64	18.11	28.34
900	17.33	26.07	21.85	18.38	27.22
950	17.35	26.26	22.02	18.59	26.42
1000	17.25	25.95	22.22	18.86	25.63
1100	17.17	25.87	22.59	19.36	24.24
1200	17.19	25.94	22.85	19.85	23.00
1300	17.14	25.99	23.21	20.40	21.96
1400	17.11	26.08	23.55	20.94	21.15
1500	17.16	26.28	23.78	21.46	20.37
1600	17.22	26.56	23.99	21.98	19.71
1700	17.32	26.96	24.05	22.40	19.17
1800	17.54	27.62	23.96	22.70	18.78
1900	17.79	28.20	23.79	23.02	18.45
2000	18.14	28.85	23.48	23.23	18.19
2200	18.96	29.34	22.64	23.58	17.58
2400	19.84	27.58	21.45	23.23	16.93
2500	20.19	26.14	20.75	22.64	16.44

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FREQ. (MHz)	OUTPUT RETURN LOSS Vs. V CONTROL @ V+=5V				
	(dB)				
	@V Control=0V	@V Control=2.5V	@V Control=4V	@V Control=8V	@V Control=17V
150	17.23	23.89	19.11	15.54	22.73
200	17.70	27.32	20.02	15.93	26.59
225	17.95	29.29	20.28	16.02	28.73
250	18.11	31.19	20.35	16.01	30.75
300	18.15	33.80	20.48	16.03	34.74
350	18.26	35.84	20.38	15.94	36.29
400	18.22	34.95	20.34	15.91	34.91
450	18.20	32.92	20.08	15.75	31.47
500	18.17	31.60	19.84	15.62	29.59
550	18.01	29.84	19.55	15.41	27.64
600	17.93	28.70	19.27	15.24	26.17
650	17.82	27.58	19.01	15.08	24.99
700	17.72	26.70	18.73	14.88	23.86
750	17.60	25.87	18.46	14.72	23.00
800	17.46	25.21	18.23	14.56	22.17
850	17.35	24.55	17.94	14.36	21.41
900	17.13	23.94	17.68	14.17	20.71
950	17.03	23.36	17.37	13.96	19.99
1000	16.88	22.98	17.20	13.83	19.50
1100	16.61	22.08	16.73	13.49	18.41
1200	16.39	21.29	16.21	13.12	17.48
1300	16.16	20.62	15.78	12.80	16.63
1400	15.93	19.98	15.35	12.47	15.85
1500	15.72	19.35	14.88	12.13	15.13
1600	15.55	18.79	14.42	11.78	14.46
1700	15.39	18.22	13.95	11.44	13.85
1800	15.31	17.70	13.49	11.10	13.30
1900	15.30	17.24	13.07	10.79	12.81
2000	15.37	16.80	12.63	10.46	12.35
2200	15.72	15.98	11.85	9.91	11.61
2400	16.52	15.34	11.15	9.42	10.99
2500	17.25	15.05	10.84	9.21	10.73

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FREQ. (MHz)	INPUT IP3 Vs. V CONTROL @ V+=5V				
	(dBm)				
	@V Control=0V	@V Control=2.5V	@V Control=4V	@V Control=8V	@V Control=17V
150	52.02	45.52	51.14	50.60	56.63
200	53.05	46.65	52.56	57.14	56.91
225	53.92	47.04	51.54	57.56	57.78
250	55.74	47.67	52.16	52.66	56.25
300	56.28	48.35	54.97	59.04	56.65
350	56.69	48.92	52.51	55.79	56.04
400	53.86	50.60	56.69	56.44	56.00
450	57.47	48.10	53.35	55.25	57.08
500	54.92	50.55	59.53	55.52	57.04
550	57.83	49.36	54.79	55.22	57.69
600	52.60	50.95	56.66	56.02	55.77
650	59.09	52.77	57.79	54.19	58.41
700	54.14	50.32	55.04	57.06	56.48
750	58.60	53.47	57.10	53.38	56.35
800	55.97	50.58	55.91	58.35	58.46
850	58.16	53.67	58.08	54.82	57.97
900	55.43	52.25	59.32	56.81	56.19
950	58.18	51.75	55.04	59.66	60.31
1000	56.53	54.03	61.64	56.03	57.82
1050	58.41	51.89	56.18	55.89	58.88
1100	59.63	52.78	61.22	55.57	59.58
1150	56.70	51.60	56.30	54.48	57.06
1200	58.88	52.82	60.37	56.54	61.06
1250	55.32	53.53	57.33	53.65	55.08
1300	56.14	52.24	57.93	55.91	56.59
1350	61.69	52.72	59.80	57.71	62.37
1400	56.87	55.38	57.49	53.95	55.67
1500	56.89	53.49	59.34	54.19	56.56
1600	59.91	53.90	61.62	55.02	59.31
1700	62.20	53.14	60.89	62.12	57.47
1800	59.15	55.01	59.99	57.13	60.13
1900	57.30	54.65	60.48	56.99	57.82
2000	56.76	54.20	59.06	57.99	57.58
2100	55.94	54.66	60.22	58.05	56.25
2200	57.64	54.85	60.54	59.59	57.08
2300	58.54	54.45	58.70	58.62	57.27
2400	59.79	53.20	58.73	58.87	57.95
2500	62.09	53.39	57.92	58.16	57.07

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Typical Performance Data

FREQ. (MHz)	PHASE SHIFT Vs. V CONTROL @ V+=5V				
	(deg)				
	@V Control=0V	@V Control=2.5V	@V Control=4V	@V Control=8V	@V Control=17V
150	126.49	23.62	22.52	22.25	21.10
200	126.86	28.14	26.35	25.56	24.24
225	135.90	31.02	28.62	27.41	26.10
250	138.92	33.96	31.07	29.55	28.05
300	143.16	39.14	35.65	33.75	32.14
350	148.02	45.26	40.82	38.38	36.52
400	152.63	51.00	45.87	43.04	41.01
450	157.85	57.25	51.36	48.08	45.67
500	162.75	63.15	56.47	52.72	50.27
550	167.46	68.98	61.66	57.62	54.88
600	172.10	74.96	66.85	62.37	59.57
650	177.64	81.18	72.39	67.51	64.34
700	182.55	87.30	77.69	72.41	69.14
750	187.73	93.63	83.27	77.64	73.92
800	193.00	99.47	88.35	82.24	78.64
850	198.26	105.87	94.23	87.94	83.61
900	203.19	111.60	98.82	92.02	88.10
950	208.07	117.81	104.75	97.80	93.09
1000	214.39	123.85	109.66	102.15	97.80
1100	224.31	136.23	120.60	112.46	107.53
1200	235.64	148.55	131.24	122.30	116.95
1300	245.94	160.62	141.70	132.10	126.39
1400	255.95	172.69	152.31	142.00	136.02
1500	267.78	185.10	163.18	152.37	145.84
1600	278.55	197.04	173.80	162.50	155.43
1700	289.21	208.82	183.94	172.07	164.66
1800	300.74	221.07	194.34	181.87	174.34
1900	311.31	233.11	205.04	192.28	184.30
2000	322.12	245.33	215.92	202.72	194.10
2200	342.69	268.64	236.43	222.19	212.71
2400	364.18	292.67	258.34	243.58	232.89
2500	374.67	304.63	269.21	253.97	242.65

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