

Voltage Variable Attenuator

RVA-800+

Typical Performance Data

V CONTROL (V)	ATTENUATION @ 500 MHz (dB) @V+=5V
0.0	9.37
0.5	9.19
1.0	7.44
1.5	5.57
2.0	4.57
2.5	3.90
3.0	3.35
3.5	2.89
4.0	2.48
4.5	2.09
5.0	1.74

FREQ. (MHz)	ATTENUATION Vs. V CONTROL @ V+=5V					
	(dB)					
	@V Control=0V	@V Control=1V	@V Control=2V	@V Control=3V	@V Control=4V	@V Control=5V
50	8.71	6.85	4.06	2.84	1.95	1.17
60	8.68	6.81	4.02	2.80	1.90	1.12
70	8.64	6.77	3.99	2.76	1.86	1.09
80	8.64	6.77	3.98	2.76	1.86	1.08
90	8.63	6.75	3.97	2.74	1.83	1.06
100	8.64	6.75	3.97	2.74	1.83	1.06
120	8.64	6.77	3.98	2.75	1.84	1.07
140	8.66	6.77	3.99	2.76	1.85	1.08
160	8.69	6.78	4.01	2.77	1.87	1.08
180	8.70	6.81	4.02	2.78	1.88	1.11
200	8.73	6.83	4.03	2.80	1.90	1.14
220	8.75	6.85	4.05	2.82	1.93	1.16
240	8.77	6.87	4.08	2.86	1.95	1.18
260	8.81	6.90	4.11	2.87	1.96	1.20
280	8.85	6.93	4.13	2.90	2.00	1.23
300	8.87	6.96	4.14	2.92	2.03	1.27
320	8.90	7.00	4.18	2.96	2.07	1.30
340	8.96	7.05	4.23	3.01	2.12	1.36
360	9.01	7.10	4.27	3.05	2.17	1.40
380	9.00	7.08	4.26	3.04	2.16	1.40
400	9.03	7.13	4.28	3.07	2.18	1.43
420	9.08	7.16	4.31	3.10	2.22	1.46
440	9.11	7.19	4.36	3.14	2.26	1.50
460	9.17	7.25	4.41	3.19	2.32	1.57
480	9.27	7.35	4.49	3.27	2.40	1.65
500	9.37	7.44	4.57	3.35	2.48	1.74
520	9.34	7.41	4.54	3.33	2.47	1.71
540	9.31	7.37	4.52	3.31	2.44	1.69
550	9.28	7.34	4.49	3.28	2.41	1.66
560	9.25	7.32	4.48	3.26	2.38	1.64
580	9.20	7.27	4.41	3.22	2.34	1.59
600	9.21	7.26	4.42	3.22	2.35	1.61
650	9.27	7.33	4.48	3.29	2.43	1.69
700	9.34	7.40	4.56	3.37	2.50	1.76
750	9.41	7.46	4.60	3.41	2.55	1.83
800	9.47	7.54	4.71	3.52	2.66	1.93



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Typical Performance Data

FREQ. (MHz)	INPUT RETURN LOSS Vs. V CONTROL @ V+=5V					
	(dB)					
	@V Control=0V	@V Control=1V	@V Control=2V	@V Control=3V	@V Control=4V	@V Control=5V
50	22.42	25.69	25.27	24.77	27.86	26.08
60	22.50	25.98	26.14	25.83	30.37	27.07
70	22.56	26.07	26.73	26.63	33.10	27.71
80	22.54	26.08	27.04	27.13	36.10	28.14
90	22.54	26.01	27.16	27.40	39.08	28.34
100	22.50	25.91	27.12	27.49	40.78	28.35
120	22.40	25.65	26.74	27.20	37.80	28.15
140	22.31	25.31	26.14	26.59	34.00	27.70
160	22.18	24.94	25.44	25.84	31.27	27.12
180	21.96	24.48	24.73	25.08	29.22	26.43
200	21.73	23.97	24.07	24.36	27.62	25.66
220	21.47	23.48	23.46	23.68	26.35	24.94
240	21.18	22.96	22.90	23.09	25.31	24.23
260	20.88	22.47	22.40	22.56	24.46	23.59
280	20.56	21.97	21.92	22.08	23.73	23.03
300	20.28	21.50	21.48	21.62	23.10	22.54
320	20.02	21.11	20.99	21.15	22.50	22.11
340	19.83	20.80	20.44	20.60	21.88	21.73
360	20.13	21.01	20.36	20.46	21.88	21.98
380	19.61	20.43	20.14	20.26	21.49	21.47
400	19.24	19.94	19.70	19.85	20.94	20.96
420	18.89	19.49	19.24	19.39	20.42	20.50
440	18.59	19.10	18.81	18.94	19.93	20.10
460	18.35	18.73	18.33	18.49	19.42	19.69
480	18.33	18.55	17.87	18.02	18.95	19.46
500	18.92	19.03	17.80	17.94	19.05	19.91
520	19.22	19.48	18.34	18.52	19.76	20.72
540	18.62	18.98	18.44	18.68	19.91	20.66
550	18.34	18.72	18.43	18.71	19.93	20.55
560	18.08	18.45	18.34	18.68	19.82	20.30
580	17.60	17.94	18.05	18.39	19.33	19.54
600	17.20	17.49	17.68	17.99	18.77	18.87
650	16.49	16.65	16.90	17.18	17.84	17.93
700	15.90	16.02	16.29	16.60	17.21	17.32
750	15.36	15.40	15.70	16.00	16.56	16.73
800	14.82	14.82	15.10	15.42	15.96	16.15

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FREQ. (MHz)	OUTPUT RETURN LOSS Vs. V CONTROL @ V+=5V					
	(dB)					
	@V Control=0V	@V Control=1V	@V Control=2V	@V Control=3V	@V Control=4V	@V Control=5V
50	23.55	33.05	22.59	22.88	26.53	27.24
60	23.12	33.51	23.26	23.72	28.45	28.48
70	22.82	33.64	23.73	24.35	30.28	29.41
80	22.67	33.55	24.05	24.78	31.92	30.06
90	22.53	33.31	24.25	25.06	33.27	30.40
100	22.46	33.05	24.33	25.21	34.03	30.46
120	22.40	32.30	24.28	25.17	33.76	30.12
140	22.40	31.52	24.04	24.91	32.18	29.32
160	22.33	30.72	23.74	24.52	30.41	28.37
180	22.39	29.92	23.36	24.04	28.80	27.40
200	22.36	29.16	22.95	23.51	27.41	26.51
220	22.38	28.49	22.53	22.98	26.26	25.71
240	22.39	27.88	22.11	22.49	25.30	25.04
260	22.44	27.34	21.76	22.06	24.53	24.45
280	22.47	26.85	21.43	21.66	23.86	23.93
300	22.53	26.43	21.11	21.29	23.28	23.42
320	22.54	26.00	20.77	20.89	22.67	22.90
340	22.58	25.59	20.39	20.44	22.06	22.43
360	22.67	25.36	20.18	20.26	21.87	22.46
380	22.63	25.00	20.04	20.07	21.53	21.94
400	22.59	24.59	19.76	19.76	21.07	21.43
420	22.58	24.25	19.48	19.45	20.62	20.99
440	22.61	23.93	19.20	19.10	20.15	20.55
460	22.68	23.63	18.85	18.72	19.72	20.17
480	22.80	23.40	18.53	18.36	19.32	19.94
500	23.11	23.41	18.36	18.20	19.29	20.26
520	23.51	23.67	18.51	18.45	19.73	20.82
540	23.96	23.98	18.63	18.57	19.81	20.84
550	24.15	24.31	18.74	18.70	19.94	20.94
560	24.06	24.55	18.92	18.83	20.06	20.96
580	23.21	24.20	19.03	18.91	19.94	20.46
600	22.56	23.43	18.79	18.60	19.43	19.78
650	22.01	22.30	18.14	17.89	18.48	18.71
700	21.74	21.63	17.66	17.30	17.78	17.98
750	21.62	21.24	17.33	16.94	17.35	17.58
800	21.49	20.92	17.03	16.60	16.93	17.15

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FREQ. (MHz)	INPUT IP3 Vs. V CONTROL @ V+=5V (dBm)			
	@V Control=0V	@V Control=1V	@V Control=3V	@V Control=5V
50	38.84	40.58	42.02	49.87
60	39.80	41.58	42.98	51.79
80	41.30	43.06	44.72	54.69
100	42.62	44.51	47.02	54.08
200	44.02	46.21	48.09	53.02
300	44.70	46.84	48.78	52.87
400	45.39	46.92	49.31	54.43
500	46.05	47.61	50.19	57.07
600	46.24	47.99	50.52	54.03
700	47.06	49.02	51.25	51.70
800	49.18	51.76	53.44	50.38

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FREQ. (MHz)	PHASE SHIFT Vs. V CONTROL @ V+=5V					
	(deg)					
	@V Control=0V	@V Control=1V	@V Control=2V	@V Control=3V	@V Control=4V	@V Control=5V
50	2.63	2.60	2.98	3.03	2.89	2.74
60	4.66	4.63	4.97	5.04	4.95	4.88
70	6.60	6.50	6.84	6.94	6.93	6.84
80	8.37	8.29	8.61	8.71	8.74	8.72
90	10.08	10.04	10.31	10.49	10.51	10.52
100	11.73	11.62	11.99	12.16	12.16	12.22
120	14.73	14.75	15.09	15.34	15.48	15.55
140	17.76	17.78	18.18	18.43	18.64	18.69
160	20.85	20.78	21.18	21.49	21.75	21.89
180	23.74	23.73	24.07	24.46	24.80	24.96
200	26.53	26.59	27.02	27.48	27.80	28.02
220	29.21	29.32	29.88	30.36	30.73	30.92
240	32.16	32.10	32.71	33.26	33.64	33.94
260	34.91	34.92	35.53	36.05	36.52	36.86
280	37.62	37.67	38.31	38.90	39.41	39.76
300	40.22	40.28	41.04	41.71	42.21	42.55
320	42.93	43.07	43.93	44.60	45.10	45.49
340	45.71	45.85	46.68	47.37	47.91	48.39
360	48.01	48.11	49.10	49.85	50.36	50.83
380	50.66	50.82	51.80	52.59	53.17	53.70
400	53.40	53.52	54.57	55.43	56.05	56.62
420	55.99	56.21	57.42	58.29	58.90	59.44
440	58.70	58.90	60.13	61.08	61.75	62.30
460	61.37	61.56	62.85	63.82	64.53	65.09
480	63.90	64.15	65.40	66.48	67.15	67.74
500	65.87	66.07	67.57	68.61	69.31	69.91
520	67.60	67.93	69.58	70.64	71.42	71.92
540	69.99	70.37	72.06	73.21	74.03	74.53
550	71.13	71.57	73.34	74.43	75.24	75.78
560	72.34	72.85	74.57	75.74	76.56	77.09
580	75.09	75.52	77.40	78.61	79.42	80.01
600	77.96	78.41	80.40	81.68	82.53	83.07
650	84.85	85.27	87.23	88.60	89.55	90.26
700	91.18	91.81	94.25	95.69	96.58	97.22
750	97.70	98.14	100.59	102.12	103.15	103.92
800	103.99	104.80	107.58	109.27	110.33	110.96

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