

Voltage Variable Attenuator

EVA-2-75+

Typical Performance Data

V CONTROL (V)	ATTENUATION @ 500 MHz (dB) @V+=5V
0.0	35.11
1.0	34.95
1.3	24.91
1.5	19.31
1.7	16.18
2.0	13.26
3.0	8.63
4.0	6.04
5.0	3.90
6.0	2.81
7.0	2.62
8.0	2.48

FREQ. (MHz)	ATTENUATION Vs. V CONTROL @ V+=5V (dB)				
	@V Control=0V	@V Control=1.5V	@V Control=2V	@V Control=4V	@V Control=8V
	50	59.54	19.20	13.11	5.88
100	58.22	19.00	13.07	5.90	2.34
130	49.92	18.99	13.10	5.89	2.35
140	42.45	19.01	13.10	5.88	2.35
200	40.35	19.02	13.11	5.93	2.37
250	39.87	19.06	13.14	5.96	2.40
300	38.77	19.09	13.16	5.96	2.40
350	37.75	19.13	13.18	5.98	2.42
400	36.77	19.18	13.21	6.01	2.45
500	35.11	19.31	13.26	6.04	2.48
600	33.79	19.41	13.31	6.07	2.53
700	32.50	19.57	13.35	6.09	2.54
800	31.42	19.71	13.41	6.11	2.54
900	30.46	19.86	13.48	6.13	2.57
1000	29.59	20.03	13.57	6.19	2.57
1100	28.85	20.23	13.70	6.28	2.60
1200	28.12	20.45	13.83	6.33	2.63
1300	27.53	20.67	13.98	6.45	2.67
1400	26.90	20.91	14.18	6.56	2.71
1500	26.38	21.15	14.41	6.72	2.79
1600	25.89	21.36	14.63	6.88	2.88
1700	25.43	21.62	14.85	7.03	3.00
1800	24.98	21.81	15.09	7.22	3.14
1900	24.60	22.07	15.38	7.42	3.32
2000	24.24	22.29	15.66	7.63	3.50

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FREQ. (MHz)	INPUT RETURN LOSS Vs. V CONTROL @ V+=5V				
	(dB)				
	@V Control=0V	@V Control=1.5V	@V Control=4V	@V Control=6V	@V Control=8V
50	29.41	24.86	18.14	21.67	21.41
100	30.18	25.86	18.84	29.76	29.65
130	30.34	26.01	19.00	33.83	34.92
140	31.80	26.02	19.05	34.61	36.62
200	30.93	26.29	19.14	34.24	37.84
250	29.83	26.57	19.27	31.25	33.59
300	30.04	26.56	19.07	30.12	31.03
350	29.68	26.60	18.93	27.94	28.21
400	29.13	26.70	18.95	26.60	26.87
500	28.27	27.12	18.84	24.63	24.77
600	27.52	27.72	18.88	23.62	23.83
700	27.14	27.38	18.88	23.27	23.48
800	26.90	27.35	18.90	23.33	23.57
900	26.92	26.51	18.77	23.49	23.69
1000	27.08	25.11	18.49	23.48	23.64
1100	27.08	23.47	18.16	23.30	23.33
1200	27.23	21.76	17.66	22.65	22.57
1300	26.93	20.24	17.09	21.74	21.53
1400	26.32	18.74	16.34	20.50	20.20
1500	25.52	17.40	15.49	18.95	18.59
1600	24.56	16.42	14.48	17.05	16.66
1700	23.64	15.42	13.47	15.15	14.78
1800	22.70	14.51	12.57	13.49	13.14
1900	21.75	13.81	11.68	11.98	11.65
2000	20.94	13.14	10.89	10.71	10.40

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Typical Performance Data

FREQ. (MHz)	OUTPUT RETURN LOSS Vs. V CONTROL @ V+=5V				
	(dB)				
	@V Control=0V	@V Control=1.5V	@V Control=4V	@V Control=6V	@V Control=8V
50	29.83	23.72	18.14	21.76	21.53
100	30.50	24.35	18.82	30.12	30.09
130	30.50	24.40	18.92	34.54	35.44
140	31.18	24.41	18.95	35.36	37.38
200	29.92	24.54	19.14	32.67	36.56
250	28.97	24.73	19.25	29.61	32.11
300	28.71	24.55	19.19	28.07	29.64
350	28.00	24.38	19.11	26.27	27.37
400	27.43	24.50	19.17	25.18	26.14
500	26.76	24.56	19.16	23.73	24.52
600	26.25	24.95	19.26	22.90	23.68
700	26.21	25.15	19.21	22.56	23.25
800	26.52	25.33	19.19	22.69	23.35
900	27.26	24.97	18.95	22.98	23.50
1000	28.39	24.19	18.59	23.06	23.39
1100	30.25	23.05	18.09	22.94	23.05
1200	32.77	21.81	17.45	22.42	22.33
1300	35.90	20.43	16.67	21.45	21.15
1400	35.53	19.10	15.81	20.09	19.72
1500	31.47	17.79	14.90	18.44	18.06
1600	27.77	16.53	13.91	16.54	16.17
1700	25.13	15.49	12.96	14.75	14.41
1800	22.96	14.57	12.03	13.09	12.79
1900	21.22	13.82	11.17	11.62	11.33
2000	19.85	13.18	10.40	10.37	10.11

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Typical Performance Data

FREQ. (MHz)	INPUT IP3 Vs. V CONTROL @ V+=5V (dBm)				
	@V Control=0V	@V Control=2V	@V Control=4V	@V Control=6V	@V Control=8V
50	36.26	37.24	37.69	38.91	39.14
100	36.72	42.81	44.66	43.99	44.85
200	43.08	51.65	51.96	51.42	50.09
300	45.91	51.71	51.31	50.70	50.60
400	48.07	50.94	50.31	50.68	50.73
500	48.52	51.30	50.52	50.96	50.92
600	49.37	51.30	50.60	51.70	51.48
700	50.07	51.94	50.46	51.53	51.11
800	50.87	52.03	50.65	50.57	50.68
900	50.36	50.97	50.16	50.85	50.68
1000	51.75	51.43	50.34	51.60	51.78
1100	50.80	51.77	51.63	51.58	50.45
1200	51.42	51.23	51.80	50.75	50.47
1300	51.66	50.70	51.46	51.77	51.83
1400	51.25	50.60	51.93	50.93	51.85
1500	52.86	51.18	51.88	51.71	51.87
1600	51.93	51.46	53.10	51.47	52.42
1700	50.00	50.47	51.04	50.17	50.69
1800	50.09	51.00	51.66	50.01	49.97
1900	50.76	51.09	52.07	51.27	49.85
2000	50.53	50.39	51.25	50.62	50.91

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FREQ. (MHz)	PHASE SHIFT Vs. V CONTROL @ V+=5V				
	(deg)				
	@V Control=0V	@V Control=1.5V	@V Control=2V	@V Control=4V	@V Control=8V
80	103.00	181.43	6.51	8.81	8.64
300	132.94	221.05	43.96	46.57	47.17
500	162.04	250.56	74.53	78.45	79.50
800	205.32	293.63	120.06	125.93	127.47
1000	233.43	321.91	150.66	158.03	159.58
1300	275.94	363.15	196.72	206.54	208.68
1500	304.53	390.02	227.25	239.09	242.11
1800	347.42	428.77	272.59	287.93	292.76
2000	375.78	454.39	302.85	320.90	326.96

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