

# Voltage Variable Attenuator

EVA-23-75+

## Typical Performance Data

V CONTROL (V)	ATTENUATION @ 1000 MHz (dB)  @V+=3V
0.0	30.88
1.0	30.92
1.5	28.76
2.0	21.80
3.0	14.20
4.0	10.17
5.0	7.22
6.0	5.60
7.0	5.11
8.0	4.78

FREQ. (MHz)	ATTENUATION Vs. V CONTROL @ V+=3V				
	(dB)				
	@V Control=0V	@V Control=1.5V	@V Control=2V	@V Control=4V	@V Control=8V
10	77.76	33.70	21.61	9.58	4.30
20	75.22	33.60	21.54	9.57	4.27
50	58.88	33.37	21.54	9.56	4.25
100	54.22	33.33	21.58	9.59	4.28
200	47.00	33.07	21.60	9.66	4.35
300	43.23	32.66	21.65	9.74	4.43
400	40.02	32.28	21.73	9.84	4.52
500	37.65	31.66	21.73	9.89	4.58
600	35.87	31.06	21.73	9.94	4.65
700	34.19	30.57	21.80	10.01	4.67
800	32.99	29.97	21.78	10.07	4.71
900	31.95	29.42	21.80	10.12	4.75
1000	30.88	28.76	21.80	10.17	4.78
1100	30.08	28.30	21.83	10.25	4.81
1200	29.14	27.78	21.87	10.34	4.89
1300	28.39	27.22	21.84	10.38	4.88
1400	27.62	26.70	21.78	10.45	4.94
1500	27.06	26.31	21.77	10.55	4.99
1600	26.43	25.74	21.79	10.66	5.01
1700	25.88	25.29	21.77	10.81	5.10
1800	25.36	24.99	21.76	10.96	5.19
1900	24.92	24.63	21.78	11.11	5.32
2000	24.49	24.19	21.64	11.28	5.43

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# Voltage Variable Attenuator

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## Typical Performance Data

FREQ. (MHz)	INPUT RETURN LOSS Vs. V CONTROL @ V+=3V				
	(dB)				
	@V Control=0V	@V Control=1.5V	@V Control=2V	@V Control=4V	@V Control=8V
10	23.81	29.11	31.02	33.18	26.25
20	25.49	32.53	31.60	35.18	26.83
50	26.92	35.05	30.65	34.16	26.93
100	27.23	34.44	29.65	31.76	26.19
200	26.00	31.05	28.31	28.11	23.84
300	24.72	28.31	26.71	25.19	21.66
400	23.48	26.38	25.48	23.22	20.14
500	22.52	24.97	24.50	21.90	19.17
600	21.66	23.85	23.71	20.95	18.43
700	20.97	22.91	22.96	20.12	17.85
800	20.45	22.30	22.56	19.61	17.47
900	20.09	21.93	22.31	19.26	17.22
1000	19.86	21.72	22.24	19.01	17.07
1100	19.83	21.79	22.38	18.98	17.01
1200	19.81	21.85	22.61	18.94	16.99
1300	20.02	22.26	23.18	19.07	17.03
1400	20.34	22.76	23.72	19.19	17.08
1500	20.92	23.56	24.29	19.23	17.10
1600	21.56	24.45	24.92	19.23	17.08
1700	22.25	25.20	24.88	18.88	16.77
1800	23.05	25.74	24.22	18.29	16.29
1900	23.77	25.86	23.39	17.56	15.75
2000	23.90	25.21	22.50	16.89	15.12

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## Typical Performance Data

FREQ. (MHz)	OUTPUT RETURN LOSS Vs. V CONTROL @ V+=3V				
	(dB)				
	@V Control=0V	@V Control=1.5V	@V Control=2V	@V Control=4V	@V Control=8V
10	26.31	30.89	28.19	32.48	27.17
20	28.67	32.96	27.70	33.03	27.76
50	30.81	32.70	26.73	31.76	27.80
100	30.89	31.20	25.91	29.83	26.94
200	27.82	28.57	24.99	26.51	24.00
300	25.53	26.71	24.22	24.26	21.77
400	23.72	25.24	23.66	22.64	20.11
500	22.07	23.57	22.64	21.04	18.74
600	20.83	22.23	21.63	19.78	17.72
700	20.08	21.49	21.11	19.13	17.26
800	19.74	21.21	20.94	18.81	17.11
900	19.52	21.01	20.81	18.60	17.06
1000	19.51	20.99	20.78	18.50	17.15
1100	19.57	21.12	20.75	18.39	17.25
1200	19.66	21.14	20.61	18.19	17.24
1300	19.63	20.97	20.32	17.88	17.05
1400	19.54	20.78	20.00	17.49	16.75
1500	19.49	20.64	19.70	17.17	16.40
1600	19.46	20.51	19.44	16.82	16.04
1700	19.62	20.50	19.27	16.50	15.74
1800	19.38	20.05	18.71	15.97	15.20
1900	19.32	19.70	18.13	15.45	14.74
2000	18.87	19.11	17.58	14.86	14.19

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# EVA-23-75+

## Typical Performance Data

FREQ. (MHz)	INPUT IP3 Vs. V CONTROL @ V+=3V (dBm)				
	@V Control=0V	@V Control=1.5V	@V Control=2V	@V Control=4V	@V Control=8V
10	26.47	21.42	23.54	28.43	44.88
20	28.28	27.50	28.24	31.09	52.92
50	37.99	38.04	38.55	39.80	53.54
100	47.50	41.02	44.55	50.12	47.72
200	48.89	43.45	46.35	48.82	48.34
300	50.65	46.01	47.49	49.43	48.47
400	50.44	47.55	48.88	52.00	49.94
500	49.30	48.15	49.02	52.54	48.85
600	50.12	50.05	50.47	50.92	49.20
700	49.93	52.38	52.95	50.47	49.96
800	50.15	51.54	51.42	49.76	50.36
900	49.57	50.05	50.05	49.18	50.56
1000	49.36	48.42	48.27	49.23	50.28
1100	50.09	49.16	49.34	49.79	50.38
1200	52.29	49.50	50.16	51.26	50.23
1300	55.60	52.77	52.04	55.86	51.49
1400	53.69	54.53	52.98	57.98	54.23
1500	54.63	55.17	53.24	54.32	53.65
1600	53.06	52.16	52.13	50.99	53.17
1700	51.42	50.95	50.30	50.72	52.16
1800	51.47	50.72	50.85	50.63	52.22
1900	50.55	50.25	49.57	50.96	51.21
2000	51.42	50.79	51.54	51.67	51.97

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## Typical Performance Data

FREQ. (MHz)	PHASE SHIFT Vs. V CONTROL @ V+=3V				
	(deg)				
	@V Control=0V	@V Control=1.5V	@V Control=2V	@V Control=4V	@V Control=8V
20	83.18	6.99	3.12	1.94	1.86
100	96.47	12.97	5.89	3.57	3.36
200	111.44	25.77	11.22	6.89	6.12
300	115.63	37.03	17.30	10.59	9.29
400	122.57	48.99	23.45	14.63	13.02
500	126.44	59.47	29.91	18.84	16.89
600	130.06	69.14	36.34	22.99	20.70
700	134.41	78.61	42.03	26.91	24.27
800	139.23	86.43	48.29	30.89	28.08
900	143.34	95.35	54.72	34.97	31.74
1000	148.49	102.31	60.92	38.90	35.38
1100	152.60	109.88	67.18	42.88	38.99
1200	156.86	117.78	73.49	46.84	42.37
1300	161.42	124.73	80.04	50.85	46.26
1400	166.05	130.73	86.36	54.76	49.36
1500	170.78	137.45	92.53	58.46	52.51
1600	175.30	143.23	98.74	62.18	55.97
1700	180.13	149.19	105.01	66.02	59.21
1800	184.44	155.31	111.23	69.90	62.49
1900	189.99	161.46	118.24	74.07	66.04
2000	194.25	167.13	124.68	78.00	69.35

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