

Voltage Variable Attenuator

EVA-3000+

Typical Performance Data

V CONTROL (V)	ATTENUATION @ 1500 MHz (dB) @V+=5V
0.0	31.33
1.0	31.09
1.5	19.89
2.0	13.38
3.0	8.55
4.0	6.03
5.0	4.05
6.0	3.02
7.0	2.77
8.0	2.59

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	60.46	19.09	12.96	5.74	2.42
80	60.04	18.90	12.92	5.71	2.39
100	60.82	18.88	12.92	5.71	2.41
130	50.18	18.91	12.93	5.72	2.40
140	42.72	18.91	12.96	5.74	2.42
150	39.42	18.91	12.95	5.75	2.42
200	41.76	18.93	12.95	5.76	2.45
250	41.40	18.94	12.98	5.79	2.45
300	40.53	19.00	13.00	5.80	2.46
350	39.56	19.01	13.01	5.80	2.47
400	38.54	19.08	13.04	5.80	2.50
500	36.79	19.17	13.08	5.85	2.50
600	35.45	19.28	13.13	5.87	2.51
700	34.13	19.43	13.17	5.93	2.55
800	33.07	19.56	13.25	5.95	2.57
900	31.93	19.72	13.29	5.95	2.56
1000	31.33	19.89	13.38	6.03	2.59
1100	30.49	20.12	13.50	6.12	2.63
1200	29.80	20.34	13.62	6.13	2.71
1300	29.07	20.56	13.74	6.22	2.73
1400	28.43	20.71	13.87	6.25	2.71
1500	27.74	20.94	13.98	6.33	2.77
1600	27.34	21.09	14.11	6.41	2.84
1700	26.88	21.22	14.19	6.45	2.83
1800	26.26	21.32	14.31	6.48	2.81
1900	25.79	21.55	14.50	6.58	2.86
2000	25.55	21.73	14.71	6.68	2.92
2100	25.07	21.89	14.91	6.80	2.97
2200	24.51	21.98	15.07	6.87	2.95
2300	24.05	22.11	15.34	7.03	3.02
2400	23.70	22.22	15.59	7.19	3.09
2500	23.29	22.34	15.94	7.39	3.19
2600	22.65	22.25	16.23	7.63	3.29
2700	22.35	22.21	16.54	7.89	3.49
2800	21.94	22.22	16.85	8.16	3.72
2900	21.60	22.10	17.12	8.47	3.93
3000	21.05	22.01	17.49	8.87	4.26



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REV. X1
EVA-3000+
070704

Page 1 of 5

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EVA-3000+

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FREQ. (MHz)	INPUT RETURN LOSS Vs. V CONTROL @ V+=5V				
	(dB)				
	@V Control=0V	@V Control=2V	@V Control=4V	@V Control=6V	@V Control=8V
50	13.02	23.02	26.12	18.47	20.86
80	13.13	23.34	28.31	19.06	22.07
100	13.18	23.45	28.97	19.20	22.41
130	13.35	23.57	29.67	19.36	22.70
140	13.59	23.60	29.90	19.39	22.80
150	13.69	23.61	30.04	19.42	22.88
200	13.31	23.75	30.35	19.41	22.83
250	13.34	23.89	30.68	19.54	23.05
300	13.33	23.85	30.93	19.58	23.12
350	13.35	24.00	31.08	19.60	23.20
400	13.44	24.33	31.91	19.84	23.58
500	13.54	24.75	32.71	20.01	23.83
600	13.55	25.00	33.25	20.13	23.97
700	13.55	25.21	33.96	20.37	24.33
800	13.55	25.55	34.62	20.44	24.41
900	13.60	25.86	35.18	20.52	24.68
1000	13.56	25.93	35.30	20.49	24.50
1100	13.54	26.33	35.11	20.42	24.37
1200	13.53	26.89	36.54	20.58	24.45
1300	13.48	26.94	36.41	20.42	24.31
1400	13.46	27.52	37.25	20.31	24.03
1500	13.39	27.65	37.29	20.49	24.08
1600	13.38	27.95	38.29	20.79	24.29
1700	13.30	27.34	34.93	20.29	23.43
1800	13.28	27.19	34.34	20.41	23.41
1900	13.38	26.90	34.04	20.96	24.13
2000	13.63	26.39	31.87	21.90	25.23
2100	13.58	24.98	29.80	22.50	26.18
2200	13.77	23.11	26.54	24.17	29.10
2300	14.04	21.87	24.69	25.36	31.46
2400	14.22	20.20	21.90	28.24	34.55
2500	14.50	18.99	19.95	26.36	26.92
2600	14.87	17.90	18.19	23.32	22.99
2700	15.18	17.05	16.65	20.33	19.57
2800	15.89	16.14	15.12	17.24	16.63
2900	16.40	15.48	14.07	15.61	15.00
3000	17.55	14.82	13.06	13.98	13.42

REV. X1
EVA-3000+
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Page 2 of 5



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FREQ. (MHz)	OUTPUT RETURN LOSS Vs. V CONTROL @ V+=5V				
	(dB)				
	@V Control=0V	@V Control=2V	@V Control=4V	@V Control=6V	@V Control=8V
50	13.01	23.06	26.25	18.39	20.77
80	13.14	23.34	28.44	18.99	21.95
100	13.20	23.56	29.31	19.16	22.34
130	13.29	23.60	29.84	19.24	22.55
140	13.43	23.54	29.92	19.24	22.59
150	13.48	23.51	30.01	19.24	22.60
200	13.28	23.64	30.22	19.26	22.66
250	13.29	23.66	30.28	19.31	22.67
300	13.27	23.59	30.15	19.24	22.65
350	13.30	23.61	29.98	19.18	22.59
400	13.29	23.57	29.85	19.19	22.51
500	13.29	23.47	29.43	19.08	22.34
600	13.23	23.32	28.86	18.97	22.21
700	13.19	23.17	28.42	18.90	22.06
800	13.18	23.03	27.70	18.68	21.71
900	13.13	22.94	27.49	18.64	21.67
1000	12.98	22.62	26.69	18.25	21.13
1100	12.88	22.50	26.42	18.15	20.93
1200	12.85	22.60	26.31	17.99	20.64
1300	12.79	22.73	26.33	17.95	20.57
1400	12.65	22.69	26.32	17.77	20.30
1500	12.52	22.78	26.12	17.54	19.91
1600	12.46	23.27	26.69	17.67	19.97
1700	12.40	23.74	26.84	17.32	19.42
1800	12.36	24.46	27.58	17.45	19.53
1900	12.42	25.47	28.27	17.38	19.34
2000	12.54	27.15	29.43	17.53	19.48
2100	12.62	29.46	32.22	18.01	20.00
2200	12.64	31.96	34.36	18.07	19.96
2300	12.84	38.98	35.82	18.96	21.16
2400	13.19	43.09	31.22	19.94	22.18
2500	13.42	32.98	26.77	20.73	22.79
2600	13.67	28.62	23.84	21.38	22.97
2700	14.01	25.64	21.29	20.43	20.96
2800	14.34	23.15	19.03	19.44	19.10
2900	14.71	21.37	17.56	18.09	17.49
3000	15.14	20.01	16.19	16.41	15.68

REV. X1
EVA-3000+
070704
Page 3 of 5



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EVA-3000+

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
10	21.63	28.44	31.22	42.50	43.24
20	30.15	33.24	35.58	45.89	46.40
50	34.60	37.83	39.17	40.90	41.25
100	35.86	42.54	44.54	45.95	46.48
200	42.67	47.73	50.86	50.19	50.12
300	44.40	47.81	48.58	48.77	48.50
400	44.81	47.37	48.56	46.40	46.45
500	46.08	47.97	50.96	52.11	52.52
600	46.63	47.36	48.88	47.29	47.23
700	47.29	49.86	50.54	49.56	51.86
800	47.67	47.10	48.06	47.18	46.69
900	46.93	47.51	47.67	46.13	46.02
1000	44.76	46.19	45.58	45.65	45.42
1100	46.73	49.89	49.37	49.27	49.72
1200	45.10	44.65	45.31	43.87	43.99
1300	47.29	45.84	46.59	47.30	46.67
1400	47.24	49.24	51.11	49.53	47.67
1500	45.90	46.28	45.92	45.96	45.12
1600	46.40	45.88	45.70	45.29	45.33
1700	46.18	45.74	47.38	46.31	46.74
1800	48.03	47.00	48.65	47.17	47.08
1900	44.00	43.26	44.01	43.04	43.09
2000	45.83	44.43	43.66	43.56	44.11
2100	47.88	46.32	45.61	44.65	45.46
2200	42.75	42.23	42.48	41.52	41.69
2300	45.67	44.23	43.96	42.90	43.24
2400	48.63	47.26	47.12	45.80	46.05
2500	43.82	42.03	42.57	41.04	41.58
2600	45.29	44.41	43.92	42.59	42.72
2700	48.97	48.59	47.01	44.50	44.51
2800	46.95	44.59	45.40	42.28	42.89
2900	49.16	49.88	49.12	45.75	45.21
3000	44.12	45.06	44.11	43.44	43.90

REV. X1
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Page 4 of 5



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Typical Performance Data

FREQ. (MHz)	PHASE SHIFT Vs. V CONTROL @ V+=5V				
	(deg)				
	@V Control=0V	@V Control=1V	@V Control=2V	@V Control=4V	@V Control=8V
200	121.81	90.27	25.09	22.89	22.76
300	130.40	105.44	36.12	33.69	33.28
600	165.77	153.30	70.34	66.31	65.33
1000	216.10	207.69	117.13	110.54	108.97
1400	266.93	261.22	163.79	153.80	151.85
1800	317.31	313.28	211.04	197.42	194.83
2200	369.57	366.29	257.98	239.43	235.67
2600	421.84	418.43	305.72	279.97	274.25
3000	472.21	469.30	356.67	321.32	312.69

REV. X1
EVA-3000+
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Page 5 of 5



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