

Voltage Variable Attenuator

SVA-2000+

Typical Performance Data

V CONTROL (V)	ATTENUATION @ 1000 MHz (dB) @V+=5V
0.0	25.90
1.0	19.90
2.0	12.80
3.0	9.71
4.0	7.80
5.0	6.38
6.0	5.19
7.0	4.11
8.0	3.12
9.0	2.39
10.0	1.91
11.0	1.76
12.0	1.68

FREQ. (MHz)	ATTENUATION Vs. V CONTROL @ V+=5V				
	(dB)				
	@V Control=0V	@V Control=1V	@V Control=2V	@V Control=5V	@V Control=12V
10	60.66	20.89	13.09	5.86	1.53
20	56.84	20.90	12.77	5.91	1.48
50	50.48	20.97	12.71	6.00	1.44
80	46.84	20.96	12.70	6.04	1.44
100	44.91	20.89	12.66	6.02	1.41
150	41.76	20.91	12.70	6.08	1.45
200	39.42	20.86	12.69	6.09	1.46
250	37.58	20.83	12.72	6.11	1.46
300	36.09	20.81	12.72	6.13	1.49
350	34.78	20.75	12.73	6.15	1.48
400	33.69	20.73	12.72	6.15	1.50
450	32.69	20.69	12.75	6.19	1.52
500	31.80	20.62	12.74	6.20	1.51
550	31.02	20.57	12.75	6.22	1.55
600	30.23	20.48	12.75	6.24	1.54
650	29.61	20.45	12.77	6.25	1.59
700	28.95	20.36	12.77	6.27	1.57
750	28.37	20.33	12.78	6.31	1.62
800	27.84	20.25	12.78	6.30	1.62
900	26.81	20.10	12.78	6.34	1.64
1000	25.91	19.90	12.78	6.38	1.68
1100	25.10	19.75	12.80	6.43	1.73
1200	24.44	19.61	12.80	6.46	1.82
1300	23.74	19.44	12.81	6.50	1.87
1400	23.08	19.21	12.80	6.53	1.87
1500	22.43	18.99	12.78	6.60	1.89
1600	21.86	18.77	12.78	6.64	1.93
1700	21.34	18.56	12.77	6.68	1.96
1800	20.83	18.35	12.76	6.73	1.99
1900	20.25	18.08	12.73	6.79	2.00
2000	19.71	17.84	12.70	6.87	2.02

REV. X1
SVA-2000+
070724
Page 1 of 5



IF/RF MICROWAVE COMPONENTS • ISO 9001 ISO 14001 AS9100 CERTIFIED RoHS compliant

P.O. Box 350166, Brooklyn, New York 11235-0003 (718) 934-4500 Fax (718) 332-4661



The Design Engineers Search Engine finds the model you need, Instantly • For detailed performance specs & shopping online see



Voltage Variable Attenuator

SVA-2000+

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=5V	@V Control=12V
10	8.50	9.50	12.69	19.28	18.03
20	11.08	11.94	16.40	23.38	18.71
50	14.94	15.32	21.40	29.20	19.24
80	16.18	16.47	23.39	31.30	19.39
100	16.43	16.71	23.85	32.07	19.17
150	17.21	17.45	25.14	31.92	19.48
200	17.52	17.73	25.51	31.43	19.39
250	17.75	17.96	25.79	30.68	19.42
300	17.82	18.00	25.63	29.86	19.30
350	17.90	18.06	25.57	29.28	19.25
400	17.89	18.06	25.27	28.48	19.11
450	17.89	18.01	24.97	27.85	18.97
500	17.83	17.95	24.64	27.21	18.82
550	17.77	17.88	24.25	26.55	18.65
600	17.62	17.74	23.85	25.99	18.44
650	17.55	17.63	23.49	25.45	18.28
700	17.42	17.49	23.07	24.91	18.08
750	17.28	17.34	22.69	24.45	17.87
800	17.10	17.17	22.30	23.98	17.65
900	16.74	16.81	21.60	23.23	17.24
1000	16.35	16.45	20.92	22.46	16.86
1100	15.97	16.11	20.43	22.02	16.50
1200	15.65	15.85	20.02	21.67	16.28
1300	15.18	15.44	19.52	21.26	15.92
1400	14.77	15.15	19.20	21.04	15.68
1500	14.43	14.91	18.97	20.97	15.55
1600	14.12	14.71	18.83	20.92	15.44
1700	13.87	14.60	18.83	21.07	15.39
1800	13.70	14.57	18.96	21.36	15.40
1900	13.55	14.59	19.19	21.77	15.41
2000	13.49	14.73	19.61	22.39	15.49

REV. X1

SVA-2000+

070724

Page 2 of 5



IF/RF MICROWAVE COMPONENTS • ISO 9001 ISO 14001 AS9100 CERTIFIED RoHS compliant

P.O. Box 350166, Brooklyn, New York 11235-0003 (718) 934-4500 Fax (718) 332-4661



The Design Engineers Search Engine finds the model you need, Instantly • For detailed performance specs & shopping online see



Voltage Variable Attenuator

SVA-2000+

Typical Performance Data

FREQ. (MHz)	OUTPUT RETURN LOSS Vs. V CONTROL @ V+=5V (dB)				
	@V Control=0V	@V Control=1V	@V Control=2V	@V Control=5V	@V Control=12V
10	7.76	9.69	13.25	20.75	18.04
20	10.11	12.71	18.13	25.79	18.71
50	13.52	17.11	25.52	28.92	19.23
80	14.61	18.67	29.03	28.31	19.37
100	15.06	19.28	30.64	28.09	19.26
150	15.56	20.12	33.10	27.27	19.51
200	15.93	20.71	34.76	26.78	19.54
250	16.14	21.04	35.30	26.39	19.61
300	16.28	21.27	35.71	26.18	19.62
350	16.38	21.44	35.82	25.95	19.64
400	16.46	21.55	35.87	25.80	19.60
450	16.53	21.69	35.56	25.57	19.63
500	16.55	21.70	35.25	25.44	19.55
550	16.57	21.73	35.04	25.32	19.54
600	16.54	21.70	34.78	25.22	19.46
650	16.54	21.66	34.61	25.09	19.42
700	16.51	21.64	34.32	24.97	19.37
750	16.49	21.56	34.09	24.86	19.34
800	16.43	21.48	33.83	24.81	19.24
900	16.28	21.24	33.45	24.75	19.11
1000	16.10	20.96	33.17	24.75	19.01
1100	15.91	20.60	33.00	24.88	18.94
1200	15.73	20.34	32.93	25.08	19.01
1300	15.48	20.02	32.91	25.54	19.05
1400	15.29	19.73	33.07	26.14	19.16
1500	15.08	19.43	33.11	26.94	19.47
1600	14.90	19.22	33.12	27.81	19.81
1700	14.77	19.08	33.06	28.58	20.22
1800	14.68	18.97	32.49	29.06	20.75
1900	14.65	18.98	31.64	28.71	21.28
2000	14.66	19.06	30.44	27.71	21.79

REV. X1
SVA-2000+
070724
Page 3 of 5



IF/RF MICROWAVE COMPONENTS • ISO 9001 ISO 14001 AS 9100 CERTIFIED RoHS compliant

P.O. Box 350166, Brooklyn, New York 11235-0003 (718) 934-4500 Fax (718) 332-4661



The Design Engineers Search Engine finds the model you need, Instantly • For detailed performance specs & shopping online see



Voltage Variable Attenuator

SVA-2000+

Typical Performance Data

FREQ. (MHz)	INPUT IP3 Vs. V CONTROL @ V+=5V (dBm)				
	@V Control=0V	@V Control=1V	@V Control=2V	@V Control=5V	@V Control=12V
10	16.45	12.29	15.68	19.00	31.69
20	25.98	14.91	19.84	24.07	35.73
50	28.35	20.21	27.14	31.27	40.30
100	37.06	24.76	31.59	35.44	42.46
200	40.83	29.27	36.27	38.97	45.44
300	41.40	32.16	38.92	41.11	44.96
400	41.59	33.78	40.21	42.49	45.84
500	42.83	35.16	41.38	43.71	45.36
600	43.97	37.07	41.99	44.17	46.01
700	44.98	38.01	43.86	45.97	46.08
800	46.29	40.09	44.38	45.44	45.61
900	46.98	39.30	44.54	47.92	45.10
1000	47.84	40.77	45.23	49.90	47.24
1100	48.48	41.53	45.99	50.30	48.46
1200	50.65	41.99	46.43	51.44	48.03
1300	51.60	42.48	46.71	50.05	47.81
1400	50.42	42.02	45.87	49.80	47.76
1500	49.17	42.07	46.58	50.41	47.95
1600	49.05	43.33	46.57	49.14	48.26
1700	48.49	43.21	46.93	50.14	48.70
1800	48.36	43.66	47.62	49.86	48.85
1900	47.57	43.14	47.63	50.27	47.77
2000	46.87	43.72	46.46	50.55	48.18

REV. X1
SVA-2000+
070724
Page 4 of 5



IF/RF MICROWAVE COMPONENTS • ISO 9001 ISO 14001 AS9100 CERTIFIED RoHS compliant

P.O. Box 350166, Brooklyn, New York 11235-0003 (718) 934-4500 Fax (718) 332-4661



The Design Engineers Search Engine finds the model you need, Instantly • For detailed performance specs & shopping online see



Voltage Variable Attenuator

SVA-2000+

Typical Performance Data

FREQ. (MHz)	PHASE SHIFT Vs. V CONTROL @ V+=5V				
	(deg)				
	@V Control=0V	@V Control=1V	@V Control=2V	@V Control=5V	@V Control=12V
50	78.54	2.68	0.86	0.06	0.25
80	81.99	3.23	0.78	0.23	0.25
100	83.19	3.79	0.97	0.30	0.39
150	84.14	4.98	1.13	0.63	0.93
200	85.03	6.23	1.44	0.84	1.47
250	85.92	7.70	1.72	1.05	1.86
300	86.22	8.97	1.96	1.25	2.28
350	86.88	10.51	2.37	1.39	2.59
400	87.44	11.91	2.69	1.49	2.91
450	87.80	13.16	3.11	1.63	3.37
500	88.27	14.75	3.47	1.90	3.61
550	88.24	15.99	3.88	1.90	4.09
600	88.70	17.49	4.11	2.19	4.40
650	88.85	18.69	4.55	2.17	4.81
700	89.38	20.00	5.01	2.35	5.02
750	89.40	21.38	5.42	2.36	5.50
800	89.95	22.65	5.76	2.60	5.56
900	90.61	25.43	6.50	2.83	6.09
1000	90.96	27.51	7.22	3.03	6.79
1100	91.40	29.91	8.15	3.20	7.41
1200	91.82	32.31	9.14	3.07	7.81
1300	92.29	34.42	9.94	3.27	8.36
1400	93.04	36.85	10.81	3.55	8.75
1500	93.40	38.69	11.52	3.72	9.42
1600	93.81	40.77	12.36	3.88	9.99
1700	94.38	42.42	13.19	4.19	10.47
1800	95.19	44.75	13.96	4.43	10.80
1900	95.80	46.32	14.84	4.65	11.53
2000	95.86	47.91	15.55	4.79	12.30

REV. X1
SVA-2000+
070724
Page 5 of 5



IF/RF MICROWAVE COMPONENTS • ISO 9001 ISO 14001 AS 9100 CERTIFIED RoHS compliant
P.O. Box 350166, Brooklyn, New York 11235-0003 (718) 934-4500 Fax (718) 332-4661

The Design Engineers Search Engine finds the model you need, Instantly • For detailed performance specs & shopping online see

