

Voltage Variable Attenuator

VACC-22+

Typical Performance Data

V CONTROL (V)	ATTENUATION @ 1900 MHz (dB)
0.00	1.10
0.20	1.11
0.50	2.36
0.70	6.69
0.90	13.59
1.00	19.20
1.10	31.64
1.14	42.45
1.20	26.42
1.40	15.75
1.60	12.22
1.80	10.67
2.00	9.50
2.40	7.45
2.80	6.08
3.00	5.59
4.00	3.91
5.00	3.25

FREQ. (MHz)	ATTENUATION Vs. V CONTROL (dB)					
	@V Control 0V	@V Control 0.5V	@V Control 0.7V	@V Control 1.0V	@V Control 1.2V	@V Control 1.3V
	1500	1.07	2.23	5.61	13.62	23.70
1536	1.10	2.24	5.64	13.70	24.02	29.49
1576	1.05	2.22	5.63	13.77	24.29	30.10
1616	1.03	2.17	5.64	13.82	24.65	30.60
1656	1.04	2.20	5.69	13.89	24.95	31.01
1696	1.05	2.23	5.71	13.95	25.22	31.42
1736	1.03	2.21	5.67	14.00	25.52	32.55
1776	1.03	2.20	5.69	14.02	25.85	33.19
1816	1.02	2.22	5.70	14.04	25.97	33.81
1856	1.08	2.26	5.74	14.06	26.22	34.83
1896	1.12	2.28	5.75	14.11	26.26	36.03
1936	1.11	2.29	5.79	14.13	26.37	37.19
1976	1.04	2.22	5.71	14.04	26.25	37.85
2016	1.17	2.30	5.78	14.07	26.19	39.01
2056	1.18	2.35	5.84	14.09	25.93	39.52
2096	1.14	2.30	5.80	14.03	25.65	39.04
2136	1.16	2.32	5.82	13.95	25.30	38.44
2176	1.21	2.36	5.78	13.89	25.05	37.03
2216	1.23	2.37	5.84	13.87	24.61	35.95
2256	1.22	2.37	5.80	13.80	24.24	34.52
2296	1.19	2.33	5.70	13.61	23.64	33.06
2300	1.17	2.31	5.69	13.56	23.56	33.02

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FREQ. (MHz)	INPUT RETURN LOSS Vs. V CONTROL					
	(dB)					
	@V Control 0V	@V Control 0.5V	@V Control 0.7V	@V Control 1.0V	@V Control 1.2V	@V Control 1.3V
1500	17.65	18.23	19.98	22.97	24.87	25.48
1536	19.08	19.58	21.17	23.86	25.63	26.45
1576	20.75	21.20	22.39	24.64	26.16	27.00
1616	22.52	22.84	23.62	25.27	26.55	26.86
1656	24.86	24.76	25.03	26.17	27.00	27.22
1696	27.82	27.18	26.71	27.12	27.80	28.33
1736	28.84	28.35	27.33	27.25	27.64	28.11
1776	28.89	28.46	27.54	27.12	27.22	27.11
1816	28.26	28.15	27.43	26.78	26.77	26.74
1856	26.71	27.36	27.18	26.58	26.48	26.96
1896	24.66	25.43	25.94	25.55	25.56	25.77
1936	23.66	24.25	24.83	24.39	24.32	24.20
1976	23.19	23.88	24.26	23.70	23.65	23.65
2016	22.70	23.51	23.70	23.08	22.97	23.24
2056	22.01	22.69	22.67	21.96	21.92	22.09
2096	22.01	22.22	21.98	20.98	20.89	20.90
2136	22.84	22.79	21.75	20.41	20.22	20.23
2176	23.61	23.30	21.47	19.91	19.72	19.71
2216	24.12	23.26	20.89	19.15	18.95	18.92
2256	24.99	23.18	20.21	18.31	18.02	18.01
2296	26.69	23.57	19.78	17.75	17.41	17.38
2300	26.78	23.62	19.79	17.70	17.38	17.33

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FREQ. (MHz)	OUTPUT RETURN LOSS Vs. V CONTROL					
	(dB)					
	@V Control 0V	@V Control 0.5V	@V Control 0.7V	@V Control 1.0V	@V Control 1.2V	@V Control 1.3V
1500	17.08	18.63	22.89	31.21	35.84	35.77
1536	18.40	20.02	24.50	32.92	35.43	34.67
1576	19.70	21.39	26.23	33.89	33.84	32.86
1616	20.95	22.83	27.99	33.69	32.45	31.54
1656	22.44	24.41	29.45	32.20	30.71	30.04
1696	23.88	25.75	30.00	30.63	29.38	28.94
1736	24.06	25.66	28.85	28.65	27.93	27.67
1776	23.92	25.44	27.68	27.23	26.79	26.60
1816	23.81	25.00	26.43	26.03	25.73	25.65
1856	23.11	24.09	25.25	25.02	24.83	24.88
1896	21.92	22.84	23.95	23.94	23.90	23.95
1936	21.57	22.42	23.23	23.05	23.06	23.14
1976	21.34	22.06	22.54	22.32	22.35	22.45
2016	21.22	21.72	22.04	21.68	21.71	21.77
2056	20.89	21.43	21.61	21.05	21.10	21.14
2096	21.31	21.69	21.36	20.51	20.43	20.49
2136	22.11	22.18	21.14	19.95	19.86	19.90
2176	23.25	22.87	21.08	19.59	19.41	19.47
2216	24.02	23.31	20.84	19.02	18.80	18.85
2256	26.45	24.71	20.79	18.59	18.33	18.34
2296	30.27	25.97	20.56	18.13	17.85	17.85
2300	30.76	25.98	20.51	18.08	17.76	17.79

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Typical Performance Data

FREQ. (MHz)	INPUT IP3 Vs. V CONTROL (dBm)					
	@V Control 0V	@V Control 0.5V	@V Control 0.9V	@V Control 1.0V	@V Control 1.2V	@V Control 1.3V
1600	48.60	36.15	32.45	31.40	30.25	34.45
1900	48.00	36.05	33.55	32.50	31.65	36.60
2200	47.25	36.25	32.45	30.65	26.50	31.50

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FREQ. (MHz)	PHASE SHIFT Vs. V CONTROL (RELATIVE TO V CONTROL=0 V)					
	(deg)					
	@V Control 0.5V	@V Control 0.6V	@V Control 0.7V	@V Control 0.9V	@V Control 1.0V	@V Control 1.1V
1600	-0.10	0.08	0.38	2.34	4.74	9.64
1640	-0.08	0.30	0.70	2.53	4.81	9.26
1680	-0.13	0.13	0.50	2.04	4.21	8.54
1720	0.12	0.10	0.41	1.93	3.68	7.76
1760	0.07	0.17	0.42	1.79	3.50	7.04
1800	-0.08	0.09	0.28	1.46	2.94	6.27
1840	-0.14	-0.03	0.21	1.18	2.49	5.33
1880	-0.21	-0.08	0.06	0.80	1.68	4.17
1920	-0.12	-0.18	-0.04	0.34	1.16	3.07
1960	-0.08	-0.12	0.04	0.28	0.92	2.36
2000	0.02	0.02	-0.10	0.09	0.39	1.36
2040	-0.28	-0.35	-0.37	-0.70	-0.52	-0.05
2080	-0.42	-0.50	-0.66	-1.04	-1.26	-1.43
2120	-0.21	-0.33	-0.56	-1.09	-1.46	-2.16
2160	-0.23	-0.42	-0.59	-1.40	-1.94	-3.20
2200	-0.22	-0.48	-0.73	-1.81	-2.68	-4.25

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