

Voltage Variable Attenuator

ZX73-2500+

Typical Performance Data

V CONTROL (V)	ATTENUATION @ 1000 MHz (dB)	
	@V+=3V	@V+=5V
	0.0	40.61
1.0	38.40	41.83
1.5	22.81	33.91
2.0	16.78	23.06
3.0	11.50	15.69
4.0	8.74	12.46
6.0	5.42	8.90
8.0	4.40	6.50
10.0	3.93	4.48
15.0	3.33	3.34
17.0	3.19	3.18

FREQ. (MHz)	ATTENUATION Vs. V CONTROL Vs. V+									
	(dB)									
	@V Control=0V		@V Control=2V		@V Control=4V		@V Control=8V		@V Control=17V	
	@V+=3V	@V+=5V	@V+=3V	@V+=5V	@V+=3V	@V+=5V	@V+=3V	@V+=5V	@V+=3V	@V+=5V
10	86.30	83.44	22.30	22.87	8.47	12.20	4.18	6.16	2.93	2.92
50	75.64	74.19	22.17	22.82	8.42	12.21	4.13	6.18	2.92	2.91
80	73.13	69.95	22.14	22.81	8.42	12.22	4.14	6.19	2.93	2.92
100	69.73	67.24	22.14	22.79	8.43	12.23	4.14	6.20	2.94	2.93
150	64.77	63.05	22.14	22.83	8.44	12.25	4.16	6.21	2.95	2.95
200	60.87	59.86	22.19	22.83	8.45	12.27	4.16	6.23	2.96	2.95
250	57.26	57.26	22.21	22.85	8.47	12.28	4.18	6.25	2.99	2.97
300	54.92	54.85	22.17	22.81	8.48	12.29	4.18	6.25	2.99	2.98
400	50.72	51.56	22.25	22.87	8.51	12.30	4.21	6.28	3.01	3.00
500	48.14	49.03	22.36	22.90	8.54	12.33	4.24	6.32	3.04	3.03
600	45.98	47.07	22.45	22.94	8.56	12.36	4.26	6.34	3.07	3.06
700	44.23	45.44	22.51	22.98	8.62	12.39	4.30	6.39	3.10	3.09
800	42.76	44.16	22.61	23.01	8.65	12.41	4.34	6.42	3.12	3.11
900	41.64	42.92	22.73	23.04	8.71	12.43	4.37	6.46	3.16	3.14
1000	40.61	41.94	22.81	23.06	8.74	12.46	4.40	6.50	3.19	3.18
1100	39.71	41.10	22.95	23.11	8.80	12.49	4.45	6.56	3.23	3.22
1200	38.96	40.33	23.09	23.17	8.87	12.54	4.49	6.61	3.28	3.26
1300	38.13	39.62	23.20	23.20	8.92	12.58	4.54	6.68	3.32	3.31
1400	37.48	38.89	23.28	23.18	8.99	12.60	4.59	6.73	3.36	3.34
1500	36.80	38.35	23.31	23.22	9.04	12.61	4.61	6.78	3.39	3.37
1600	36.43	37.89	23.43	23.22	9.06	12.63	4.63	6.81	3.42	3.41
1700	36.04	37.44	23.63	23.27	9.14	12.67	4.70	6.89	3.47	3.46
1800	35.60	37.01	23.75	23.33	9.22	12.71	4.74	6.96	3.53	3.51
1900	35.21	36.58	23.88	23.35	9.31	12.73	4.81	7.04	3.59	3.56
2000	34.83	36.20	23.96	23.40	9.38	12.77	4.86	7.12	3.65	3.62
2100	34.47	35.73	24.09	23.43	9.45	12.83	4.91	7.20	3.70	3.69
2200	34.07	35.25	24.16	23.45	9.54	12.85	4.98	7.29	3.77	3.74
2300	33.68	34.72	24.27	23.49	9.61	12.88	5.04	7.38	3.84	3.82
2400	33.26	34.19	24.34	23.50	9.69	12.92	5.09	7.46	3.89	3.87
2500	32.90	33.62	24.44	23.54	9.79	12.96	5.17	7.55	3.98	3.95

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Voltage Variable Attenuator

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Typical Performance Data

FREQ. (MHz)	INPUT RETURN LOSS Vs. V CONTROL Vs. V+									
	(dB)									
	@V Control=0V		@V Control=2V		@V Control=4V		@V Control=10V		@V Control=17V	
	@V+=3V	@V+=5V	@V+=3V	@V+=5V	@V+=3V	@V+=5V	@V+=3V	@V+=5V	@V+=3V	@V+=5V
10	10.05	22.08	14.97	28.31	18.73	21.04	22.68	27.96	30.43	30.47
50	10.57	25.44	15.81	31.59	19.86	20.44	23.88	32.76	42.04	42.49
80	10.68	26.15	16.00	31.15	20.07	20.22	24.08	33.57	46.04	46.93
100	10.71	26.45	16.08	30.85	20.17	20.13	24.10	33.75	46.16	47.13
150	10.75	26.53	16.08	31.09	20.13	20.20	23.94	33.23	44.74	45.88
200	10.80	26.85	16.16	30.74	20.22	20.09	24.01	33.57	46.12	47.67
250	10.79	26.67	16.12	31.02	20.14	20.17	23.84	32.96	43.58	44.69
300	10.82	26.76	16.15	30.99	20.15	20.13	23.84	32.98	44.00	45.31
400	10.82	26.43	16.09	31.47	20.00	20.26	23.60	32.17	41.81	42.52
500	10.79	25.97	16.03	31.97	19.81	20.37	23.34	31.39	39.57	40.26
600	10.77	25.46	15.91	32.78	19.59	20.53	23.01	30.60	37.64	38.31
700	10.73	24.85	15.82	33.79	19.41	20.72	22.75	29.86	36.31	36.84
800	10.68	24.14	15.70	35.21	19.21	20.95	22.43	29.19	34.86	35.26
900	10.63	23.37	15.59	37.38	18.95	21.26	22.02	28.42	33.09	33.42
1000	10.54	22.56	15.47	40.34	18.69	21.71	21.61	27.50	31.40	31.61
1100	10.48	21.74	15.35	43.39	18.49	22.13	21.20	26.85	29.84	29.95
1200	10.42	20.94	15.26	42.13	18.29	22.60	20.81	26.06	28.35	28.44
1300	10.36	20.16	15.15	38.13	18.07	23.18	20.21	25.15	26.55	26.75
1400	10.29	19.40	15.06	34.44	17.82	24.01	19.40	23.64	24.62	24.76
1500	10.21	18.66	14.97	31.95	17.58	24.67	18.93	22.82	23.14	23.43
1600	10.15	17.97	14.86	30.11	17.26	25.38	18.40	22.21	22.65	22.85
1700	10.10	17.29	14.87	28.35	17.25	25.88	18.26	21.85	22.14	22.01
1800	10.04	16.67	14.90	26.86	17.21	26.37	17.96	21.42	21.29	21.45
1900	10.02	16.06	14.94	25.50	17.22	26.94	17.58	20.83	20.61	20.77
2000	9.92	15.41	15.00	24.27	17.22	27.26	17.38	20.51	20.18	20.19
2100	9.86	14.86	15.01	23.18	17.21	27.44	17.12	20.16	19.60	19.68
2200	9.80	14.30	15.11	22.18	17.28	27.52	16.85	19.74	19.13	19.15
2300	9.74	13.81	15.12	21.33	17.27	27.40	16.67	19.48	18.76	18.85
2400	9.67	13.32	15.18	20.56	17.33	27.16	16.47	19.21	18.39	18.5
2500	9.61	12.90	15.26	19.92	17.42	26.83	16.37	19.01	18.15	18.25

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Voltage Variable Attenuator

ZX73-2500+

Typical Performance Data

FREQ. (MHz)	OUTPUT RETURN LOSS Vs. V CONTROL Vs. V+									
	(dB)									
	@V Control=0V		@V Control=2V		@V Control=4V		@V Control=10V		@V Control=17V	
	@V+=3V	@V+=5V	@V+=3V	@V+=5V	@V+=3V	@V+=5V	@V+=3V	@V+=5V	@V+=3V	@V+=5V
10	9.00	18.06	13.58	25.72	17.71	23.84	22.29	27.26	30.24	30.30
50	9.42	19.68	14.26	31.89	18.64	23.50	23.39	31.16	40.68	41.33
80	9.51	19.99	14.42	33.62	18.84	23.25	23.56	31.79	43.56	44.65
100	9.55	20.12	14.47	34.36	18.91	23.12	23.63	31.96	44.06	45.23
150	9.59	20.24	14.51	34.94	18.92	23.09	23.59	31.93	43.60	44.82
200	9.65	20.35	14.61	35.90	19.04	22.98	23.65	32.23	44.12	45.27
250	9.65	20.30	14.60	35.71	18.99	23.06	23.56	31.82	42.85	43.95
300	9.69	20.33	14.64	36.25	19.05	23.00	23.60	31.96	42.76	43.73
400	9.71	20.32	14.64	36.11	19.02	23.05	23.56	31.94	42.01	43.17
500	9.75	20.25	14.69	35.98	19.06	23.11	23.61	31.92	42.06	42.87
600	9.76	20.12	14.70	35.65	19.07	23.18	23.60	31.82	41.55	42.29
700	9.77	19.98	14.71	35.21	19.03	23.29	23.63	31.83	41.21	41.77
800	9.78	19.73	14.70	34.44	18.97	23.44	23.57	31.60	39.78	40.20
900	9.76	19.40	14.68	33.45	18.93	23.68	23.48	31.29	37.70	37.99
1000	9.74	19.08	14.65	32.25	18.82	24.02	23.30	30.76	35.33	35.68
1100	9.72	18.70	14.59	31.21	18.76	24.34	23.08	30.10	33.37	33.58
1200	9.70	18.34	14.60	30.20	18.70	24.68	22.88	29.48	31.56	31.71
1300	9.70	17.96	14.60	29.16	18.65	24.98	22.60	28.71	29.71	29.84
1400	9.69	17.55	14.63	28.09	18.64	25.30	22.24	27.68	27.87	27.97
1500	9.67	17.10	14.65	27.01	18.61	25.55	21.80	26.71	26.24	26.37
1600	9.66	16.62	14.68	26.00	18.57	25.73	21.34	25.76	24.91	25.04
1700	9.65	16.17	14.79	25.05	18.68	25.65	20.93	24.92	23.76	23.85
1800	9.66	15.72	14.91	24.17	18.77	25.41	20.53	24.11	22.70	22.81
1900	9.70	15.32	15.09	23.35	18.97	24.98	20.16	23.34	21.73	21.80
2000	9.75	14.93	15.30	22.62	19.25	24.36	19.84	22.80	20.98	21.03
2100	9.81	14.58	15.59	22.00	19.60	23.62	19.62	22.32	20.34	20.40
2200	9.88	14.25	15.91	21.45	20.06	22.84	19.40	21.91	19.79	19.84
2300	9.99	13.99	16.34	21.01	20.61	22.12	19.29	21.63	19.36	19.41
2400	10.09	13.76	16.77	20.66	21.24	21.42	19.23	21.43	19.02	19.07
2500	10.24	13.64	17.28	20.49	22.07	20.84	19.27	21.32	18.82	18.87

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Voltage Variable Attenuator

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Typical Performance Data

FREQ. (MHz)	INPUT IP3 Vs. V CONTROL Vs. V+									
	(dBm)									
	@V Control=0V		@V Control=2V		@V Control=4V		@V Control=8V		@V Control=15V	
	@V+=3V	@V+=5V	@V+=3V	@V+=5V	@V+=3V	@V+=5V	@V+=3V	@V+=5V	@V+=3V	@V+=5V
10	20.02	20.28	24.70	29.99	27.05	33.84	38.19	30.17	43.42	43.38
20	20.55	22.71	29.25	34.00	31.08	36.58	41.48	34.14	46.15	46.17
50	26.22	27.34	42.97	44.64	49.77	41.84	49.34	43.32	51.36	50.06
100	29.67	30.97	46.64	50.16	50.78	51.58	48.38	50.85	49.15	49.89
200	34.23	33.92	49.37	50.53	50.08	52.87	48.68	51.13	49.17	49.22
300	36.38	36.78	50.96	49.57	50.65	52.48	48.62	50.30	50.12	48.76
400	39.12	38.37	50.52	49.58	50.66	52.60	48.71	51.19	50.10	49.76
500	39.99	39.76	52.20	50.22	51.80	53.06	50.32	50.75	50.33	49.28
600	41.08	40.33	51.59	50.08	52.00	52.96	52.09	50.74	52.44	49.53
700	42.23	41.56	52.19	50.05	52.21	52.48	51.32	51.51	50.91	51.70
800	43.01	42.28	50.90	49.90	52.24	51.92	52.01	50.65	52.42	50.37
900	43.49	42.83	50.94	49.32	52.65	53.04	50.74	50.73	50.45	50.04
1000	44.08	43.56	50.43	50.37	50.32	50.06	50.05	50.02	50.09	50.12
1100	43.90	43.82	49.91	49.75	51.20	50.86	49.45	50.49	49.48	50.56
1200	44.80	43.90	51.03	49.81	51.21	52.67	51.28	51.35	50.15	50.11
1300	44.94	43.90	50.77	49.34	51.06	53.01	50.65	51.53	49.61	50.24
1400	45.68	44.01	52.09	49.31	50.88	50.16	51.23	51.33	49.62	51.48
1500	45.24	44.93	52.35	50.02	50.94	51.74	50.61	52.81	48.99	51.04
1600	45.88	45.65	48.56	48.27	48.22	48.00	49.14	50.05	49.19	49.37
1700	45.98	45.01	48.80	48.55	49.60	49.88	49.01	49.71	49.09	49.63
1800	45.11	44.90	49.46	49.36	48.54	48.00	48.16	49.46	48.01	49.07
1900	45.66	45.33	48.49	48.15	49.89	49.55	48.35	49.88	49.14	49.40
2000	46.32	46.01	49.74	48.09	48.46	49.49	48.93	49.55	48.92	49.51
2100	45.93	45.68	48.63	48.48	49.80	49.22	49.57	50.26	49.60	49.59
2200	46.80	46.31	48.90	48.59	50.03	49.55	48.76	50.32	49.44	49.61
2300	46.90	45.39	50.12	48.62	51.36	50.95	50.39	50.91	50.08	51.21
2400	47.02	46.52	50.07	51.47	51.34	51.68	50.65	52.51	51.80	51.30
2500	46.99	46.58	52.10	50.84	51.16	52.55	50.28	52.37	50.97	51.86

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Typical Performance Data

FREQ. (MHz)	PHASE SHIFT Vs. V CONTROL Vs. V+									
	(deg)									
	@V Control=0V		@V Control=2V		@V Control=6V		@V Control=10V		@V Control=17V	
	@V+=3V	@V+=5V	@V+=3V	@V+=5V	@V+=3V	@V+=5V	@V+=3V	@V+=5V	@V+=3V	@V+=5V
10	47.67	50.00	178.89	178.76	179.15	179.37	179.23	179.23	179.25	179.24
80	60.00	65.00	189.79	189.14	190.55	190.56	190.66	190.65	190.71	190.75
200	76.34	89.00	205.57	203.39	207.06	206.63	207.22	207.26	207.33	207.30
400	101.98	112.52	231.57	227.08	234.31	233.21	234.47	234.48	234.64	234.67
700	147.55	152.13	270.21	262.47	274.91	272.83	275.19	275.25	275.48	275.45
1000	188.13	190.38	308.51	297.61	315.42	312.57	315.88	315.96	316.28	316.27
1300	226.19	225.97	346.49	332.37	355.83	352.17	356.53	356.61	357.07	357.01
1600	264.83	261.93	384.62	367.72	396.40	391.85	397.27	397.40	397.97	397.99
1900	301.06	295.08	422.50	402.89	437.17	431.60	438.22	438.41	439.11	439.09
2200	334.49	325.74	460.31	437.73	477.92	471.26	479.20	479.28	480.15	480.14
2500	368.94	357.86	498.03	473.13	518.95	511.05	520.40	520.35	521.47	521.41

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