

Digital Step Attenuator

ZX76-31R5-SN+

Typical Performance Data

FREQUENCY (MHz)	STEP ATTENUATION* AT TTL CONTROL STATE (dB)							
	000000 THRU LOSS	000001 0.5 dB	000010 1.0 dB	000100 2.0 dB	001000 4.0 dB	010000 8.0 dB	100000 16.0 dB	111111 31.5 dB
5	1.31	0.53	1.02	2.05	4.06	7.98	15.95	31.40
50	1.34	0.51	1.00	2.03	4.03	7.95	15.93	31.33
200	1.39	0.52	1.01	2.04	4.04	7.96	15.93	31.32
400	1.45	0.50	0.99	2.02	4.04	7.95	15.91	31.27
600	1.50	0.51	1.01	2.04	4.04	7.94	15.91	31.13
800	1.55	0.52	1.02	2.06	4.05	7.94	15.90	31.00
1000	1.66	0.51	1.01	2.03	4.02	7.92	15.87	30.77
1200	1.75	0.51	0.99	2.04	4.02	7.90	15.83	30.54
1400	1.83	0.50	0.99	2.03	4.00	7.87	15.81	30.30
1600	1.94	0.51	0.98	2.03	4.00	7.88	15.77	30.04
1800	2.05	0.49	0.98	2.04	3.98	7.82	15.75	29.76
2000	2.11	0.53	1.00	2.07	4.01	7.87	15.75	29.61
2200	2.22	0.52	1.01	2.08	4.04	7.91	15.77	29.36
2400	2.40	0.52	1.03	2.13	4.09	7.94	15.77	28.70
2600	2.66	0.54	1.03	2.12	4.05	7.85	15.35	27.33
3000	2.75	0.55	1.04	2.16	4.11	7.81	15.05	27.58

* Step Attenuation above Thru Loss (TTL Logic 000000).

FREQUENCY (MHz)	INPUT RETURN LOSS AT TTL CONTROL STATE (dB)							
	000000 0 dB	000001 0.5 dB	000010 1.0 dB	000100 2.0 dB	001000 4.0 dB	010000 8.0 dB	100000 16.0 dB	111111 31.5 dB
5	17.27	18.85	20.22	18.09	19.75	22.42	31.76	60.11
50	17.27	18.84	20.18	18.08	19.74	22.38	31.64	58.37
200	17.33	18.89	20.26	18.16	19.83	22.48	31.81	57.47
400	17.46	19.02	20.38	18.27	19.93	22.60	31.84	54.71
600	17.62	19.11	20.50	18.41	20.06	22.74	31.97	53.72
800	17.74	19.19	20.60	18.53	20.14	22.81	31.94	51.84
1000	17.81	19.24	20.63	18.61	20.22	22.82	31.95	49.20
1200	18.03	19.46	20.82	18.87	20.45	23.00	32.49	44.80
1400	18.27	19.74	21.04	19.18	20.75	23.18	32.79	39.14
1600	18.51	20.04	21.20	19.60	21.19	23.47	33.09	34.67
1800	18.90	20.55	21.49	20.33	21.96	23.93	32.11	30.68
2000	19.25	21.04	21.63	21.29	22.88	24.25	29.52	27.20
2200	19.60	21.56	21.60	22.51	24.03	24.22	26.22	24.12
2400	19.87	21.86	21.10	23.60	24.41	23.07	22.98	21.37
2600	18.41	19.92	18.92	21.48	21.56	20.28	19.94	18.96
3000	15.28	16.72	15.98	18.05	18.23	17.42	16.79	16.06

FREQUENCY (MHz)	OUTPUT RETURN LOSS AT TTL CONTROL STATE (dB)							
	000000 0 dB	000001 0.5 dB	000010 1.0 dB	000100 2.0 dB	001000 4.0 dB	010000 8.0 dB	100000 16.0 dB	111111 31.5 dB
5	17.27	17.95	18.02	22.32	26.86	27.89	23.73	42.75
50	17.24	17.93	17.99	22.27	26.77	27.85	23.68	42.84
200	17.29	17.96	18.04	22.29	26.79	27.81	23.72	41.62
400	17.38	18.05	18.13	22.38	26.78	27.76	23.75	38.71
600	17.41	18.05	18.16	22.34	26.59	27.47	23.69	36.16
800	17.43	18.06	18.17	22.26	26.23	26.94	23.55	33.55
1000	17.48	18.10	18.22	22.16	25.71	26.27	23.46	30.81
1200	17.55	18.17	18.28	22.08	25.18	25.48	23.39	28.29
1400	17.61	18.27	18.39	21.92	24.40	24.51	23.42	26.02
1600	17.60	18.32	18.43	21.57	23.44	23.37	23.42	24.01
1800	18.03	18.87	19.01	21.75	22.91	22.84	24.33	22.37
2000	18.14	19.18	19.36	21.24	21.52	21.37	24.57	20.23
2200	18.26	19.50	19.74	20.51	20.07	19.91	24.27	18.45
2400	18.41	19.83	20.03	19.47	18.50	18.24	22.79	16.73
2600	17.33	18.55	18.72	17.56	16.61	16.44	20.44	15.28
3000	14.79	15.88	16.04	15.04	14.18	14.12	17.12	13.10

REV. X1

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