

# Digital Step Attenuator

# ZFAT-51020

## Typical Performance Data

FREQUENCY (MHz)	STEP ATTENUATION* AT TTL CONTROL STATE (dB)							
	000 THRU LOSS	001 5 dB	010 10 dB	011 15 dB	100 20 dB	101 25 dB	110 30 dB	111 35 dB
10.0	2.68	4.96	9.93	14.90	20.10	24.96	29.77	34.53
49.6	2.53	4.98	9.95	14.90	20.05	24.95	29.92	34.69
148.6	2.43	4.98	9.94	14.93	20.04	25.05	29.90	34.88
208.0	2.47	4.96	9.93	14.89	20.00	24.91	29.92	34.86
247.6	2.50	4.94	9.94	14.88	19.95	24.83	29.91	34.76
346.6	2.60	4.96	9.96	14.87	19.96	24.96	29.92	34.42
406.0	2.67	4.96	9.94	14.82	19.97	24.91	29.80	34.60
445.6	2.70	4.94	9.92	14.80	19.96	24.96	29.84	34.47
544.6	2.79	4.95	9.91	14.81	19.88	24.85	29.76	34.43
604.0	2.84	4.97	9.94	14.84	19.88	24.90	29.83	34.54
703.0	2.90	4.94	9.94	14.82	19.88	24.90	29.72	34.86
762.4	2.92	4.96	9.96	14.81	19.83	24.85	29.80	35.22
821.8	2.96	5.01	9.98	14.88	19.87	24.92	29.99	35.21
881.2	2.99	5.03	10.01	14.96	19.94	24.92	30.10	35.13
940.6	3.03	5.04	10.07	14.98	19.30	24.98	30.03	35.08
1000.0	3.06	5.09	10.16	15.08	20.00	25.28	29.95	35.55

\* Step Attenuation above Thru Loss (TTL Logic 000).

FREQUENCY (MHz)	INPUT VSWR AT TTL CONTROL STATE (:1)						
	001 5 dB	010 10 dB	011 15 dB	100 20 dB	101 25 dB	110 30 dB	111 35 dB
10.0	1.11	1.15	1.09	1.20	1.10	1.14	1.09
49.6	1.08	1.10	1.06	1.13	1.07	1.10	1.06
148.6	1.08	1.10	1.06	1.12	1.07	1.10	1.06
208.0	1.10	1.12	1.08	1.15	1.09	1.12	1.08
247.6	1.12	1.14	1.09	1.17	1.10	1.13	1.09
346.6	1.15	1.18	1.12	1.21	1.13	1.18	1.12
406.0	1.17	1.21	1.14	1.24	1.16	1.20	1.14
445.6	1.18	1.22	1.16	1.26	1.17	1.22	1.16
544.6	1.21	1.26	1.19	1.30	1.20	1.25	1.19
604.0	1.22	1.28	1.21	1.32	1.22	1.27	1.21
703.0	1.22	1.30	1.23	1.35	1.24	1.30	1.21
762.4	1.22	1.31	1.25	1.36	1.25	1.31	1.25
821.8	1.22	1.32	1.26	1.36	1.26	1.32	1.27
881.2	1.22	1.32	1.27	1.37	1.27	1.33	1.28
940.6	1.22	1.32	1.28	1.36	1.27	1.33	1.29
1000.0	1.21	1.32	1.29	1.36	1.28	1.33	1.30

FREQUENCY (MHz)	OUTPUT VSWR AT TTL CONTROL STATE (:1)						
	001 5 dB	010 10 dB	011 15 dB	100 20 dB	101 25 dB	110 30 dB	111 35 dB
10.0	1.21	1.15	1.15	1.07	1.08	1.08	1.08
49.6	1.14	1.11	1.10	1.05	1.05	1.05	1.05
148.6	1.15	1.10	1.10	1.05	1.05	1.05	1.05
208.0	1.17	1.13	1.12	1.06	1.06	1.06	1.06
247.6	1.19	1.14	1.14	1.07	1.07	1.06	1.07
346.6	1.26	1.19	1.19	1.10	1.10	1.10	1.09
406.0	1.30	1.22	1.22	1.12	1.11	1.12	1.11
445.6	1.32	1.24	1.24	1.13	1.13	1.13	1.12
544.6	1.37	1.28	1.28	1.15	1.15	1.15	1.15
604.0	1.39	1.30	1.30	1.16	1.16	1.16	1.17
703.0	1.42	1.35	1.34	1.20	1.20	1.20	1.20
762.4	1.43	1.37	1.37	1.22	1.20	1.22	1.22
821.8	1.43	1.37	1.38	1.23	1.23	1.23	1.23
881.2	1.42	1.38	1.39	1.24	1.25	1.25	1.25
940.6	1.41	1.39	1.41	1.26	1.27	1.27	1.27
1000.0	1.40	1.40	1.42	1.27	1.27	1.28	1.28

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