

Digital Step Attenuator

ZSAT-31R5+

Typical Performance Data

FREQUENCY (MHz)	STEP ATTENUATION* AT TTL CONTROL STATE (dB)							
	000000	000001	000010	000100	001000	010000	100000	111111
	THRU LOSS	0.5 dB	1.0 dB	2.0 dB	4.0 dB	8.0 dB	16.0 dB	31.5 dB
9.99	5.59	0.40	0.91	1.89	3.86	7.84	15.88	31.28
27.97	5.00	0.38	0.89	1.88	3.87	7.83	15.90	31.42
78.93	4.82	0.56	1.05	2.08	4.08	8.06	16.09	31.59
129.89	4.78	0.42	0.98	1.98	3.95	7.95	16.00	31.50
210.82	4.81	0.41	0.94	1.93	3.93	7.89	15.93	31.31
288.76	4.92	0.51	1.05	2.04	4.05	8.04	16.07	31.68
366.69	4.96	0.59	1.11	2.11	4.16	8.12	16.14	31.82
444.63	5.06	0.45	0.99	1.98	4.00	7.94	16.00	31.59
498.58	5.06	0.47	1.00	1.99	4.01	7.95	15.99	31.52
573.52	5.06	0.59	1.12	2.14	4.18	8.09	16.18	31.86
651.45	5.18	0.53	1.06	2.03	4.10	8.01	16.05	31.88
729.39	5.19	0.46	1.01	2.01	4.07	7.99	16.03	31.74
810.32	5.36	0.54	1.10	2.06	4.13	8.02	16.10	31.98
888.26	5.30	0.55	1.08	2.03	4.12	7.99	16.09	31.78
966.19	5.50	0.51	1.03	1.98	4.07	7.88	15.97	31.85
1017.15	5.42	0.65	1.22	2.12	4.21	8.03	16.17	31.82

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

FREQUENCY (MHz)	INPUT VSWR AT TTL CONTROL STATE (:1)						
	000001	000010	000100	001000	010000	100000	111111
	0.5 dB	1.0 dB	2.0 dB	4.0 dB	8.0 dB	16.0 dB	31.5 dB
9.99	1.46	1.44	1.42	1.43	1.46	1.50	1.29
27.97	1.20	1.20	1.19	1.19	1.20	1.21	1.13
78.93	1.16	1.15	1.14	1.15	1.15	1.16	1.11
129.89	1.18	1.18	1.16	1.16	1.17	1.18	1.13
210.82	1.22	1.23	1.19	1.19	1.19	1.21	1.16
288.76	1.24	1.21	1.21	1.22	1.21	1.23	1.20
366.69	1.25	1.23	1.23	1.24	1.24	1.25	1.24
444.63	1.26	1.28	1.24	1.26	1.26	1.27	1.27
498.58	1.25	1.27	1.24	1.27	1.27	1.27	1.30
573.52	1.23	1.22	1.23	1.27	1.27	1.26	1.32
651.45	1.19	1.22	1.21	1.25	1.26	1.24	1.34
729.39	1.18	1.20	1.21	1.23	1.25	1.20	1.34
810.32	1.19	1.21	1.21	1.21	1.23	1.18	1.35
888.26	1.22	1.28	1.24	1.21	1.22	1.16	1.35
966.19	1.27	1.29	1.26	1.20	1.20	1.16	1.36
1017.15	1.31	1.34	1.27	1.20	1.20	1.17	1.36

FREQUENCY (MHz)	OUTPUT VSWR AT TTL CONTROL STATE (:1)						
	000001	000010	000100	001000	010000	100000	111111
	0.5 dB	1.0 dB	2.0 dB	4.0 dB	8.0 dB	16.0 dB	31.5 dB
9.99	1.03	1.66	1.47	1.42	1.23	1.10	1.09
27.97	1.04	1.59	1.22	1.32	1.11	1.05	1.04
78.93	1.05	1.50	1.14	1.21	1.06	1.03	1.02
129.89	1.05	1.20	1.13	1.02	1.06	1.02	1.02
210.82	1.08	1.61	1.18	1.22	1.07	1.05	1.04
288.76	1.04	1.12	1.18	1.08	1.08	1.04	1.05
366.69	1.17	1.57	1.22	1.25	1.10	1.07	1.07
444.63	1.02	1.07	1.20	1.12	1.10	1.07	1.07
498.58	1.17	1.41	1.21	1.23	1.12	1.09	1.09
573.52	1.04	1.28	1.19	1.18	1.11	1.09	1.09
651.45	1.14	1.29	1.17	1.23	1.13	1.12	1.11
729.39	1.02	1.16	1.13	1.19	1.14	1.11	1.12
810.32	1.17	1.25	1.11	1.25	1.17	1.14	1.14
888.26	1.07	1.06	1.10	1.22	1.18	1.14	1.15
966.19	1.20	1.32	1.12	1.28	1.21	1.17	1.17
1017.15	1.15	1.16	1.15	1.31	1.24	1.17	1.17



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