

# Attenuator/Switch

# ZMAS-1

## Typical Performance Data

FREQ. (MHz)	INSERTION LOSS (dB) at 20mA Control Current	AMP. UNBAL. (dB) at ± 20mA Control Current	PHASE UNBAL. (deg.) at ± 20mA Control Current	ISOLATION at 0 mA Control Current (dB)		RETURN LOSS (dB) Input
				In-Out	In-Con	
5.0	3.27	0.02	179.9	74	50	11.8
9.5	2.93	0.02	179.9	68	44	13.4
19.5	2.92	0.02	179.9	62	38	14.3
35.0	2.97	0.02	179.9	59	33	14.5
39.5	2.98	0.03	179.9	59	32	14.5
49.5	3.00	0.03	179.9	57	30	14.4
74.0	3.00	0.04	179.8	55	27	14.1
75.1	3.00	0.03	179.8	55	26	14.1
107.4	3.10	0.04	179.7	53	23	14.3
141.8	3.18	0.04	179.7	51	21	14.6
176.3	3.24	0.04	179.6	49	19	14.5
210.8	3.28	0.04	179.5	48	18	14.6
225.3	3.29	0.04	179.5	48	18	14.7
244.2	3.30	0.04	179.4	47	17	14.8
278.7	3.29	0.04	179.3	46	16	15.1
313.2	3.30	0.05	179.2	46	16	15.1
347.7	3.33	0.05	179.1	45	16	14.8
381.0	3.40	0.05	179.1	44	15	15.0
415.5	3.50	0.06	179.0	43	15	14.7
450.0	3.58	0.06	178.9	43	15	13.7

CONTROL CURRENT (mA)	ATTENUATION (dB)			PHASE UNBALANCE REF AT 15 mA CONTROL (deg.)			INPUT VSWR (:1)		
	5 MHz	225 MHz	450 MHz	5 MHz	225 MHz	450 MHz	5 MHz	225 MHz	450 MHz
0.0000	68.1	50.0	41.3	-52.4	124.7	108.2	2.9	2.9	2.6
0.0001	62.8	49.6	41.6	-9.9	119.7	103.2	2.9	2.9	2.6
0.0002	56.7	49.9	41.3	-18.0	114.6	102.4	2.9	2.9	2.6
0.0006	51.7	50.5	41.3	-20.7	101.4	95.5	2.9	2.9	2.6
0.0032	46.6	47.3	40.4	-10.7	58.4	76.3	2.9	2.9	2.6
0.0058	43.8	44.3	39.0	-6.4	45.6	60.3	2.9	2.9	2.6
0.0116	39.8	39.6	36.0	-0.4	29.9	43.3	2.8	2.9	2.6
0.0184	36.6	36.1	33.2	3.3	24.8	33.3	2.8	2.8	2.5
0.0327	32.6	31.6	29.1	5.9	18.3	23.7	2.8	2.7	2.4
0.0486	29.5	28.4	26.2	6.9	15.6	19.4	2.7	2.7	2.4
0.0787	25.9	24.6	22.6	7.6	13.3	14.8	2.6	2.5	2.2
0.1081	23.5	22.2	20.3	7.9	12.2	12.8	2.5	2.4	2.1
0.1975	19.1	17.8	16.1	7.8	10.0	9.7	2.2	2.2	1.9
0.3085	16.0	14.8	13.3	7.4	8.7	7.9	2.0	1.9	1.7
0.5100	12.9	11.7	10.6	6.5	7.3	6.0	1.7	1.7	1.4
0.8548	10.1	9.2	8.4	5.3	5.5	4.4	1.5	1.4	1.2
1.7555	7.2	6.0	6.1	3.3	3.4	2.5	1.3	1.2	1.1
2.6670	5.4	5.1	4.9	2.0	2.0	1.3	1.3	1.2	1.2
8.1232	4.0	4.0	4.0	0.5	0.5	0.4	1.5	1.4	1.4
15.1218	3.5	3.6	3.6	0.0	-0.1	0.0	1.6	1.5	1.4

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