

# Attenuator/Switch

# SYAS-2+

## 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	
10.0	3.34	0.00	180.0	69	47	11.4
11.4	3.24	0.01	180.0	67	46	11.6
16.1	3.17	0.01	180.1	64	43	12.2
23.2	3.18	0.00	180.1	59	40	12.5
46.5	3.35	0.01	180.3	54	34	12.5
65.8	3.24	0.01	180.5	51	31	12.4
93.1	3.19	0.01	180.7	48	28	12.4
100.2	3.34	0.01	180.7	47	28	12.4
131.8	3.36	0.01	180.9	45	25	12.4
186.6	3.36	0.02	181.3	42	23	12.3
373.8	3.75	0.02	182.1	36	20	11.4
500.8	3.93	0.03	182.5	34	21	11.3
529.1	4.06	0.04	182.5	33	21	11.2
748.8	4.72	0.10	182.6	31	19	10.7
791.0	5.13	0.15	182.8	31	18	10.3
820.5	5.21	0.15	182.4	32	18	10.1
899.0	5.75	0.20	182.4	31	15	9.5
932.5	5.97	0.27	182.0	31	15	9.3
967.2	5.85	0.24	181.8	31	13	9.1
1000.0	6.41	0.38	181.4	31	13	8.8

CONTROL CURRENT (mA)	ATTENUATION (dB)			PHASE UNBALANCE REF AT 15 mA CONTROL (deg.)			INPUT VSWR (:1)		
	10 MHz	500 MHz	1000 MHz	10 MHz	500 MHz	1000 MHz	10 MHz	500 MHz	1000 MHz
0.0000	51.3	24.7	27.2	76.7	40.6	0.5	3.3	2.3	4.2
0.0001	40.8	22.0	24.7	67.8	31.3	-6.7	3.2	2.2	4.0
0.0002	35.5	20.5	23.4	61.3	25.4	-10.4	3.2	2.2	3.8
0.0003	32.1	19.5	22.5	59.5	21.4	-12.8	3.1	2.1	3.7
0.0008	28.6	18.4	21.4	55.8	17.3	-14.7	3.0	2.0	3.6
0.0012	25.7	17.1	20.1	53.7	14.1	-15.8	2.9	1.9	3.4
0.0019	22.8	15.7	18.6	51.0	10.9	-16.0	2.7	1.9	3.2
0.0029	20.2	14.2	17.0	47.8	8.6	-15.1	2.6	1.7	3.1
0.0040	17.8	12.7	15.3	45.1	6.8	-13.6	2.4	1.6	2.9
0.0074	14.6	10.4	12.9	40.1	4.7	-10.7	2.1	1.5	2.7
0.0110	12.7	9.1	11.5	36.8	3.7	-8.7	1.9	1.4	2.6
0.0159	11.1	8.0	10.4	33.2	2.8	-7.2	1.7	1.4	2.6
0.0221	9.7	7.0	9.5	29.5	2.2	-5.3	1.5	1.4	2.5
0.0301	8.5	6.3	8.8	25.9	1.7	-4.3	1.3	1.4	2.6
0.0416	7.4	5.8	8.3	22.4	1.0	-3.4	1.2	1.5	2.6
0.0753	5.9	5.1	7.6	16.2	0.7	-2.1	1.2	1.6	2.6
0.1640	4.7	4.5	7.0	9.2	0.2	-1.4	1.4	1.8	2.7
0.3543	4.0	4.2	6.7	5.0	0.0	-0.8	1.6	1.9	2.7
1.2309	3.6	4.0	6.5	1.7	-0.1	-0.5	1.8	2.0	2.7
15.1064	3.4	3.8	6.3	0.0	0.0	-0.1	1.9	2.0	2.7

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061204  
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