

# PHASE SHIFTER

# SPHSA-251+

## Typical Performance Data

CONTROL VOLTAGE (V)	PHASE SHIFT* (Deg.)			VSWR (:1)			INSERTION LOSS (dB)		
	150 MHz	200 MHz	250 MHz	150 MHz	200 MHz	250 MHz	150 MHz	200 MHz	250 MHz
0.0	0.01	0.01	0.01	1.10	1.14	1.73	1.33	1.22	1.58
1.0	24.23	12.97	5.88	1.07	1.19	1.70	1.51	1.36	1.61
2.0	46.91	25.98	11.76	1.07	1.25	1.66	1.64	1.52	1.64
3.0	69.53	40.70	18.54	1.17	1.31	1.61	1.75	1.68	1.69
4.0	91.78	58.22	27.01	1.30	1.36	1.53	1.83	1.85	1.76
5.0	112.67	79.19	38.16	1.45	1.38	1.43	1.87	1.99	1.86
6.0	131.26	103.36	53.33	1.58	1.36	1.29	1.86	2.04	2.01
7.0	146.85	128.64	73.76	1.67	1.30	1.13	1.81	1.99	2.24
8.0	159.33	151.94	99.51	1.72	1.25	1.13	1.73	1.88	2.51
9.0	169.05	171.21	128.38	1.74	1.25	1.30	1.65	1.75	2.69
10.0	176.58	186.24	156.49	1.75	1.27	1.41	1.58	1.64	2.65
11.0	182.48	197.74	180.79	1.75	1.31	1.42	1.52	1.56	2.44
12.0	187.09	206.48	200.05	1.75	1.34	1.37	1.47	1.49	2.20
13.0	190.71	213.11	214.63	1.74	1.36	1.31	1.43	1.44	2.00
14.0	193.55	218.17	225.44	1.73	1.37	1.27	1.40	1.40	1.85
15.0	195.79	222.07	233.49	1.73	1.39	1.24	1.37	1.37	1.75

\*Normalized at control voltage = 0V