

# Bi-Directional Coupler

# SYDC-20-31HP+

## Typical Performance Data

FREQ. (MHz)	INSERTION LOSS (dB) IN-OUT	COUPLING (dB)		DIRECTIVITY (dB)		RETURN LOSS (dB)			
		IN-FWD	OUT-REV	IN-REV	OUT-FWD	IN	OUT	FWD	REV
1.5	0.07	20.49	20.45	45.19	51.77	40.50	42.13	41.68	42.07
2.0	0.07	20.50	20.46	45.65	50.60	39.62	41.02	41.10	41.61
3.0	0.07	20.50	20.46	45.85	50.18	39.51	40.84	40.64	41.51
4.0	0.07	20.51	20.46	45.03	48.62	38.86	40.07	39.95	40.12
5.0	0.07	20.51	20.47	44.28	47.78	38.07	38.87	39.00	38.71
6.0	0.07	20.51	20.47	43.80	47.02	37.43	38.29	38.21	38.07
7.0	0.07	20.51	20.47	43.19	46.05	36.83	37.33	37.45	37.02
8.0	0.07	20.51	20.47	42.62	45.16	36.18	36.50	36.83	36.19
9.0	0.07	20.51	20.47	42.19	44.31	35.61	35.79	36.10	35.41
10.0	0.07	20.52	20.48	41.50	43.40	35.11	35.11	35.40	34.81
11.0	0.07	20.52	20.48	41.08	42.55	34.55	34.47	34.66	34.28
12.0	0.07	20.52	20.48	40.45	41.79	34.01	33.89	34.09	33.67
13.0	0.07	20.52	20.48	39.87	41.29	33.42	33.40	33.51	33.09
14.0	0.07	20.53	20.49	39.49	40.66	32.95	32.81	32.94	32.53
15.0	0.07	20.53	20.49	39.01	40.17	32.39	32.36	32.41	32.07
16.0	0.08	20.53	20.49	38.48	39.58	31.94	31.84	31.83	31.51
17.0	0.08	20.53	20.50	37.97	39.13	31.42	31.35	31.31	31.08
18.0	0.08	20.54	20.50	37.47	38.52	30.94	30.84	30.82	30.57
19.0	0.08	20.54	20.50	37.07	38.11	30.51	30.31	30.38	30.09
20.0	0.08	20.54	20.50	36.63	37.62	30.07	29.90	29.91	29.65
21.0	0.08	20.54	20.51	36.18	37.15	29.66	29.46	29.45	29.23
22.0	0.08	20.55	20.51	35.85	36.82	29.29	29.13	29.05	28.88
23.0	0.08	20.55	20.52	35.47	36.32	28.94	28.75	28.65	28.46
24.0	0.09	20.55	20.52	34.97	35.97	28.61	28.43	28.37	28.14
25.0	0.09	20.55	20.52	34.74	35.50	28.31	28.12	27.98	27.80
26.0	0.09	20.56	20.53	34.35	35.07	28.00	27.83	27.70	27.50
27.0	0.09	20.56	20.53	34.11	34.81	27.70	27.57	27.37	27.17
28.0	0.09	20.56	20.53	33.75	34.36	27.44	27.26	27.05	26.88
29.0	0.09	20.56	20.54	33.42	34.07	27.15	27.02	26.80	26.58
30.0	0.09	20.57	20.54	33.09	33.64	26.88	26.72	26.52	26.31