

Bi-Directional Coupler

ZX30-20-20BD+

Typical Performance Data

FREQ. (MHz)	INSERTION LOSS	COUPLING		DIRECTIVITY		RETURN LOSS			
	(dB) IN-OUT	(dB) IN-FWD	(dB) OUT-REV	(dB) IN-REV	(dB) OUT-FWD	(dB) IN	(dB) OUT	(dB) FWD	(dB) REV
10.0	17.72	43.84	39.87	14.01	16.71	0.16	0.45	0.15	0.15
20.0	12.02	37.91	34.06	14.62	16.59	0.40	0.58	0.37	0.36
30.0	8.85	34.57	30.94	14.87	17.10	0.76	0.82	0.69	0.68
40.0	6.80	32.29	29.01	15.19	17.47	1.20	1.18	1.08	1.08
50.0	5.39	30.63	27.72	15.65	17.85	1.71	1.66	1.54	1.53
60.0	4.39	29.38	26.85	16.21	18.25	2.23	2.23	2.03	2.03
70.0	3.65	28.42	26.22	16.77	18.59	2.75	2.85	2.54	2.54
80.0	3.08	27.66	25.73	17.29	18.82	3.29	3.50	3.07	3.07
90.0	2.62	27.04	25.35	17.72	19.07	3.83	4.13	3.61	3.59
100.0	2.23	26.55	25.05	18.06	19.27	4.39	4.70	4.13	4.11
150.0	1.14	25.09	24.27	19.93	20.05	7.09	6.91	6.58	6.54
200.0	0.74	24.43	24.00	23.36	20.37	9.06	9.29	8.67	8.61
250.0	0.47	24.05	23.77	23.76	20.61	11.25	11.07	10.47	10.39
300.0	0.37	23.79	23.65	27.78	20.80	12.55	12.55	12.02	11.91
350.0	0.26	23.59	23.44	27.93	20.72	14.49	14.41	13.41	13.31
400.0	0.23	23.42	23.34	30.00	20.68	15.38	15.25	14.65	14.51
450.0	0.17	23.25	23.16	31.64	20.53	17.19	17.13	15.77	15.63
500.0	0.16	23.10	23.06	30.23	20.43	17.89	17.83	16.81	16.72
550.0	0.14	22.95	22.90	32.40	20.31	19.55	19.23	17.75	17.66
600.0	0.13	22.80	22.74	29.69	20.27	20.30	20.41	18.70	18.60
650.0	0.12	22.64	22.58	30.64	20.14	21.76	21.12	19.56	19.50
700.0	0.12	22.49	22.40	29.38	19.99	22.61	22.73	20.34	20.36
750.0	0.11	22.33	22.27	28.68	19.98	23.63	22.88	21.14	21.19
800.0	0.11	22.18	22.12	28.94	19.89	24.79	24.56	21.83	21.91
850.0	0.11	22.02	21.97	27.77	19.94	25.31	24.67	22.62	22.81
890.0	0.11	21.89	21.82	28.49	19.90	26.55	25.53	23.17	23.45
900.0	0.12	21.86	21.79	28.53	19.90	26.56	25.95	23.29	23.59
950.0	0.12	21.70	21.60	27.68	19.86	26.57	26.33	23.96	24.12
1000.0	0.12	21.54	21.45	28.44	19.96	27.83	26.74	24.62	24.84
1050.0	0.13	21.39	21.29	28.00	20.03	27.41	27.72	25.14	25.52
1100.0	0.13	21.23	21.15	28.80	20.23	28.48	27.27	25.88	25.95
1150.0	0.14	21.08	21.00	29.13	20.35	27.71	28.36	26.56	26.49
1200.0	0.14	20.92	20.83	29.49	20.54	28.36	27.58	27.07	26.93
1250.0	0.15	20.77	20.67	30.54	20.78	27.82	28.38	27.69	27.30
1300.0	0.15	20.61	20.50	30.94	20.96	27.89	27.83	28.13	27.68
1350.0	0.16	20.47	20.36	32.37	21.13	27.57	27.77	28.72	28.12
1400.0	0.16	20.32	20.21	32.47	21.38	27.24	27.78	29.22	28.54
1450.0	0.17	20.17	20.08	34.51	21.59	27.18	27.13	29.39	28.86
1500.0	0.18	20.02	19.92	34.89	21.68	26.64	27.27	29.66	29.05
1550.0	0.18	19.88	19.77	37.48	21.89	26.59	26.38	29.89	29.38
1600.0	0.19	19.74	19.63	36.36	21.91	25.89	26.39	29.72	29.44
1650.0	0.19	19.60	19.49	38.50	21.99	25.83	25.65	29.47	29.39
1700.0	0.20	19.46	19.36	36.59	22.08	25.04	25.34	29.41	29.26
1760.0	0.21	19.30	19.19	35.74	21.76	24.78	24.59	28.72	28.86
1780.0	0.21	19.24	19.14	35.22	21.75	24.62	24.26	28.48	28.63
1800.0	0.22	19.19	19.09	34.26	21.73	24.37	24.12	28.28	28.48
1840.0	0.22	19.08	18.98	33.05	21.62	23.87	23.92	28.03	28.44
1880.0	0.23	18.97	18.87	32.41	21.42	23.59	23.26	27.59	28.20
1900.0	0.23	18.92	18.82	31.64	21.33	23.39	22.97	27.38	27.97
1950.0	0.24	18.79	18.68	29.87	21.13	22.79	22.69	26.87	27.34
2000.0	0.25	18.66	18.54	28.80	20.89	22.33	21.94	26.51	27.04
2500.0	0.38	17.44	17.31	19.26	16.37	16.52	16.43	21.53	21.64
3000.0	0.62	16.16	15.98	14.30	12.60	12.70	12.72	16.84	16.78
3500.0	0.90	14.55	14.35	11.23	9.73	10.48	10.52	12.81	12.81
4000.0	1.26	12.05	11.87	8.81	7.02	9.88	9.89	9.09	8.75

REV. X1

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Patent Pending

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