

# Bi-Directional Coupler

# ZFBDC16-63HP+

## Typical Performance Data

FREQ. (MHz)	INSERTION LOSS		COUPLING		DIRECTIVITY		RETURN LOSS			
	(dB)		(dB)		(dB)		(dB)			
	IN-OUT	FWD-REV	IN-FWD	OUT-REV	IN-REV	OUT-FWD	IN	OUT	FWD	REV
200	0.10	0.11	38.74	38.73	23.91	23.82	42.59	42.04	49.15	45.40
300	0.12	0.12	35.24	35.26	23.42	23.54	43.08	40.92	40.08	42.21
400	0.13	0.14	32.79	32.79	23.53	23.72	43.58	43.03	39.83	37.67
500	0.15	0.15	30.89	30.90	23.31	23.38	53.26	46.98	34.52	35.40
600	0.16	0.17	29.35	29.36	23.16	23.64	47.93	51.70	34.09	33.33
700	0.18	0.18	28.06	28.07	23.37	23.61	39.26	41.15	30.71	31.61
800	0.19	0.20	26.96	26.97	23.41	23.89	35.99	36.49	30.71	30.35
900	0.21	0.21	25.99	26.00	23.68	23.94	33.31	33.42	28.80	29.37
1000	0.22	0.22	25.13	25.15	23.64	24.35	31.80	31.50	28.96	28.78
1100	0.23	0.24	24.37	24.39	24.14	24.76	30.87	29.89	28.24	28.67
1200	0.25	0.25	23.68	23.71	24.42	25.35	29.68	28.90	28.74	28.83
1300	0.26	0.26	23.07	23.08	25.29	26.04	29.16	27.78	28.08	28.80
1400	0.27	0.27	22.50	22.52	25.98	27.32	27.91	26.97	28.62	29.08
1500	0.28	0.27	21.98	22.00	27.42	28.22	27.66	26.21	28.54	29.17
1600	0.29	0.28	21.50	21.53	28.84	29.72	26.99	25.51	29.18	29.44
1700	0.30	0.28	21.07	21.10	29.90	31.35	26.43	24.92	29.60	30.19
1800	0.30	0.29	20.66	20.70	31.19	31.83	25.86	24.37	29.92	30.15
1900	0.31	0.30	20.28	20.32	32.27	31.27	24.94	23.68	30.05	30.20
2000	0.32	0.31	19.93	19.98	32.71	32.08	24.32	23.10	31.31	30.68
2100	0.34	0.32	19.61	19.65	33.31	31.52	23.81	22.64	32.50	32.26
2200	0.36	0.34	19.31	19.36	33.91	31.68	23.47	22.64	35.20	35.12
2300	0.38	0.36	19.04	19.08	34.04	31.20	23.06	22.81	35.12	37.31
2400	0.40	0.37	18.78	18.83	33.13	30.36	22.42	22.91	35.50	37.03
2500	0.42	0.39	18.55	18.58	31.85	31.69	21.93	23.04	35.15	42.27
2600	0.44	0.41	18.32	18.36	30.89	33.52	21.91	23.55	33.59	46.95
2700	0.45	0.42	18.11	18.16	30.54	32.47	21.79	24.49	33.43	39.28
2800	0.46	0.43	17.92	17.96	31.68	30.79	22.53	25.53	31.72	34.91
2900	0.46	0.44	17.74	17.78	32.72	29.85	23.16	26.74	32.13	34.15
3000	0.46	0.44	17.57	17.61	34.23	28.77	24.30	27.50	32.10	33.38
3100	0.46	0.44	17.42	17.45	36.70	27.48	25.84	27.79	31.47	30.81
3200	0.46	0.44	17.27	17.30	40.97	25.75	27.98	28.50	30.42	29.66
3300	0.46	0.44	17.14	17.16	42.10	24.90	31.11	28.81	31.24	30.41
3400	0.47	0.45	17.02	17.04	37.60	24.69	33.95	29.17	32.12	31.34
3500	0.48	0.45	16.91	16.93	33.66	25.59	34.71	29.84	34.92	32.55
3600	0.50	0.46	16.81	16.82	32.71	25.61	32.88	29.64	35.58	33.16
3800	0.55	0.50	16.66	16.64	32.89	27.69	29.29	28.65	38.06	36.78
4000	0.59	0.54	16.50	16.48	33.04	28.21	26.55	26.18	37.01	41.27
4200	0.59	0.58	16.35	16.36	32.86	24.89	26.85	24.96	33.67	35.99
4400	0.60	0.59	16.25	16.25	33.46	24.15	27.91	23.91	35.11	38.00
4600	0.60	0.58	16.19	16.19	32.69	24.90	25.69	23.17	33.60	38.04
4800	0.59	0.56	16.16	16.14	28.26	27.38	23.55	23.71	28.43	29.92
5000	0.60	0.59	16.17	16.14	23.11	26.04	21.14	22.38	22.60	22.39
5200	0.64	0.65	16.22	16.17	19.57	21.83	19.71	21.03	19.36	19.46
5400	0.69	0.72	16.26	16.20	17.39	19.36	20.26	20.63	18.13	18.13
5600	0.72	0.75	16.28	16.22	16.67	17.64	22.10	21.50	18.08	18.31
5700	0.72	0.75	16.29	16.23	16.41	18.16	24.58	22.78	18.57	19.12
5800	0.73	0.74	16.29	16.26	16.08	18.28	31.36	23.40	19.98	20.08
5900	0.72	0.69	16.31	16.28	15.83	18.44	38.51	23.96	23.32	22.84
6000	0.72	0.69	16.35	16.32	15.21	17.58	25.13	21.99	24.82	25.14
6100	0.74	0.69	16.42	16.40	14.54	16.67	20.45	19.04	28.25	29.21
6200	0.75	0.69	16.54	16.50	14.03	16.24	17.74	17.22	32.71	44.66
6300	0.80	0.68	16.68	16.65	13.03	15.33	15.12	15.14	31.48	33.49
6400	0.85	0.66	16.85	16.82	12.35	14.51	13.63	13.77	26.29	27.02
6500	0.92	0.66	17.05	17.01	12.01	14.20	12.70	13.01	23.62	23.97
6600	0.96	0.68	17.24	17.18	12.34	14.50	12.36	12.61	22.16	22.45
6700	1.01	0.71	17.46	17.35	12.69	14.69	12.04	12.21	20.32	21.04
6800	1.05	0.74	17.67	17.54	13.04	15.26	11.74	12.09	19.71	20.26
6900	1.07	0.77	17.88	17.78	13.47	15.59	12.09	12.23	19.24	20.04
7000	1.08	0.79	18.10	18.02	13.71	15.48	12.48	12.29	18.66	18.94