

Dual-Directional Coupler

ZDDC10-K5R44W+

Typical Performance Data

FREQ. (MHz)	MAINLINE LOSS ⁽¹⁾	COUPLING		DIRECTIVITY		RETURN LOSS			
	(dB)	(dB)		(dB)		(dB)			
	IN-THRU	IN-COUP 1	THRU-COUP 2	THRU-COUP 1	IN-COUP 2	IN	THRU	COUP 1	COUP 2
400	0.77	11.70	12.07	42.71	36.30	40.50	36.56	61.65	39.19
500	0.97	10.66	11.03	41.50	38.37	37.76	32.98	46.05	36.63
1000	1.13	10.39	10.71	28.00	29.53	28.07	27.55	36.00	30.00
1500	1.39	9.74	9.64	27.62	28.81	29.83	30.02	37.09	33.55
2000	1.35	10.33	10.00	28.40	32.57	26.62	27.04	52.26	33.79
2500	1.54	9.77	9.41	25.76	27.99	31.52	31.31	32.65	29.89
3000	1.50	10.15	9.82	35.98	40.84	26.45	26.51	44.76	35.51
3500	1.59	9.93	9.66	25.91	26.85	36.22	33.57	28.64	28.50
4000	1.64	9.84	9.75	38.57	40.75	30.96	30.44	32.94	29.74
4500	1.66	9.86	9.82	26.20	26.12	41.19	39.03	26.42	27.87
5000	1.73	9.85	9.74	31.32	32.65	33.03	33.72	31.38	27.71
5500	1.70	10.22	10.01	31.54	33.47	27.89	28.94	33.34	33.22
6000	1.83	9.87	9.63	28.04	29.54	26.38	27.28	29.69	27.80
6500	1.75	10.55	10.00	30.97	36.52	26.15	27.45	43.17	38.74
7000	1.95	9.87	9.33	26.49	27.00	26.04	27.30	27.97	31.13
7500	1.83	10.46	9.99	24.50	25.80	36.30	35.98	39.44	36.92
8000	2.04	9.73	9.30	27.49	28.50	36.60	33.91	27.25	30.76
8500	1.86	10.67	10.25	22.78	22.97	37.71	29.83	38.72	31.17
9000	2.08	9.78	9.59	27.18	26.90	36.73	27.75	25.62	26.18
9500	1.94	10.52	10.45	21.35	20.70	29.04	27.19	33.20	29.26
10000	2.16	9.59	9.74	26.43	25.49	27.10	25.71	28.55	27.35
11000	2.29	9.40	9.62	24.63	25.21	23.44	23.52	31.38	33.95
12000	2.25	9.84	9.81	24.39	26.99	29.62	29.80	30.47	32.08
13000	2.33	9.89	9.69	24.73	27.58	34.64	33.91	36.88	31.64
14000	2.34	10.12	9.90	26.18	29.04	40.86	38.53	46.12	32.67
15000	2.37	10.16	10.16	26.71	27.06	42.65	37.32	35.02	30.26
16000	2.36	10.49	10.64	25.31	26.51	29.66	28.69	36.38	28.38
17000	2.45	10.47	10.50	22.24	24.91	26.88	26.60	37.25	26.04
18000	2.51	10.65	10.52	20.79	24.54	25.92	24.06	42.44	28.18
19000	2.61	10.58	10.43	20.85	23.78	25.23	23.47	30.34	37.07
20000	2.63	10.71	10.57	19.46	19.87	36.77	26.96	27.20	32.23
22000	2.98	9.89	9.77	17.02	17.34	24.34	23.04	26.64	25.09
24000	3.16	9.43	9.65	20.16	21.72	25.81	27.89	24.74	23.54
26000	3.20	9.98	9.75	24.71	28.13	28.58	25.60	30.30	24.59
28000	3.29	10.33	10.05	18.86	21.99	24.48	21.29	23.55	21.74
30000	3.55	9.75	9.87	21.48	31.51	19.40	18.91	28.93	23.27
32000	3.51	10.35	10.37	18.22	17.01	25.25	26.83	21.10	17.78
34000	3.64	10.46	10.44	17.52	17.23	24.43	27.26	22.50	19.93
36000	3.80	10.52	10.69	19.63	23.40	22.21	23.59	50.73	45.90
38000	3.90	10.37	10.47	19.01	19.83	33.11	25.58	25.63	37.75
40000	4.04	10.43	10.41	17.07	17.90	28.13	27.34	22.48	19.33
42000	4.35	10.03	9.99	16.98	16.21	20.50	20.97	24.97	19.52
43500	4.61	10.29	10.38	14.40	15.84	13.08	13.75	19.44	18.62

⁽¹⁾ Mainline loss includes coupling loss