

Directional Coupler

ZCDC10-K0244+

Typical Performance Data

TEST CONDITIONS: INPUT POWER =0 dBm @Temperature = +25°C

FREQUENCY (MHz)	INSERTION LOSS (dB)	COUPLING (dB)	DIRECTIVITY (dB)	RETURN LOSS		
				IN	(dB) OUT	CPL
10	0.02	52.35	23.07	53.64	61.92	40.63
500	0.14	18.78	25.62	31.08	31.58	30.63
1000	0.33	13.51	28.72	27.46	27.16	28.90
2000	0.64	9.99	32.02	44.27	40.71	42.10
4000	0.74	9.94	24.74	31.44	30.91	35.97
6000	0.84	9.80	27.60	25.29	22.90	27.86
8000	0.90	9.85	29.11	21.93	21.76	23.07
10000	0.91	10.12	25.14	21.31	21.46	24.83
11000	0.92	10.00	26.60	34.09	32.28	26.53
12000	0.96	9.90	28.13	26.72	26.18	31.07
13000	0.94	10.18	22.03	35.78	35.95	23.35
14000	0.95	10.28	26.58	32.62	41.10	26.63
15000	1.01	10.01	24.45	31.71	30.96	23.66
16000	1.03	10.09	19.97	27.79	40.52	22.48
17000	1.05	10.17	26.24	31.24	29.16	22.26
18000	1.11	9.85	18.31	27.68	37.43	22.05
19000	1.17	9.66	32.50	29.51	26.89	33.26
20000	1.17	9.98	18.50	24.70	25.51	21.86
21000	1.18	9.94	27.06	29.02	28.77	40.73
22000	1.24	9.74	24.38	27.35	29.08	28.77
23000	1.24	9.94	20.24	24.40	24.82	23.46
24000	1.22	10.29	24.95	31.64	30.92	22.59
25000	1.24	10.29	19.04	28.91	32.14	24.89
26000	1.29	10.15	36.95	26.69	28.56	24.16
27000	1.30	10.24	18.55	33.83	36.52	21.35
28000	1.34	10.16	31.29	36.62	39.91	24.43
29000	1.38	10.12	21.41	29.17	32.11	21.62
30000	1.40	10.30	26.73	27.49	24.75	22.27
31000	1.41	10.46	25.83	30.86	29.51	28.86
32000	1.45	10.36	19.91	26.95	28.27	21.64
33000	1.49	10.33	24.36	23.71	25.75	35.31
34000	1.51	10.59	20.02	23.06	32.99	19.64
35000	1.54	10.33	21.48	25.98	36.03	42.86
36000	1.58	10.30	19.16	23.90	31.20	21.23
37000	1.61	10.50	20.55	19.89	20.39	22.18
38000	1.64	10.29	18.04	31.07	36.00	32.59
39000	1.82	10.21	16.13	17.98	18.33	19.11
40000	1.68	9.96	17.83	23.14	26.63	22.05
43500	1.85	10.00	15.64	18.95	20.13	19.24



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IF/RF MICROWAVE COMPONENTS

REV. OR
ZCDC10-K0244+
8/31/2018
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Directional Coupler

ZCDC10-K0244+

Typical Performance Data

TEST CONDITIONS: INPUT POWER =0 dBm @Temperature = -55°C

FREQUENCY (MHz)	INSERTION LOSS (dB)	COUPLING (dB)	DIRECTIVITY (dB)	RETURN LOSS		
				IN	(dB) OUT	CPL
10	0.07	52.15	20.32	41.43	43.19	37.86
500	0.19	18.81	24.02	27.25	29.79	27.98
1000	0.38	13.56	26.52	24.07	25.87	26.00
2000	0.66	10.01	34.04	36.17	36.66	50.70
4000	0.77	9.91	22.00	28.00	30.88	38.43
6000	0.87	9.78	25.05	22.80	21.83	26.54
8000	0.93	9.88	28.78	19.02	19.80	21.62
10000	0.97	10.26	21.13	18.62	19.09	23.17
11000	0.94	10.09	24.09	29.77	30.81	26.35
12000	0.95	9.98	25.47	23.58	23.52	27.36
13000	0.91	10.23	18.95	27.60	31.45	23.00
14000	0.91	10.31	30.87	30.56	34.26	24.04
15000	0.98	10.03	20.01	25.08	26.37	24.10
16000	0.98	10.13	22.26	27.33	38.68	20.76
17000	1.02	10.19	22.15	26.65	24.07	22.89
18000	1.08	9.84	19.10	26.29	36.55	21.97
19000	1.11	9.70	32.56	26.98	23.61	31.88
20000	1.13	10.00	17.98	21.60	23.51	23.32
21000	1.13	9.94	23.48	23.95	23.13	56.38
22000	1.19	9.76	20.48	21.51	22.73	26.40
23000	1.16	10.01	18.28	23.11	22.29	21.84
24000	1.15	10.35	18.97	26.66	30.47	22.73
25000	1.19	10.42	20.66	30.91	31.92	21.65
26000	1.25	10.24	25.41	29.03	33.89	29.02
27000	1.34	10.36	21.32	28.86	23.53	20.68
28000	1.42	10.35	28.74	26.97	30.21	30.72
29000	1.51	10.45	20.05	21.69	19.98	24.71
30000	1.42	10.50	20.14	30.18	24.46	25.78
31000	1.46	10.78	24.73	20.78	21.31	30.09
32000	1.47	10.61	17.03	36.78	35.06	23.79
33000	1.55	10.60	27.67	19.96	21.61	33.06
34000	1.46	10.73	18.60	25.23	26.74	19.15
35000	1.49	10.45	27.41	25.88	31.00	35.94
36000	1.53	10.45	22.46	25.09	23.99	19.27
37000	1.58	10.49	25.60	17.76	18.43	20.26
38000	1.56	10.29	17.03	24.16	23.29	31.38
39000	1.88	10.20	15.70	14.43	14.91	18.76
40000	1.64	10.08	16.04	21.10	21.39	23.57
43500	1.78	10.18	20.74	19.44	19.12	19.87

Directional Coupler

ZCDC10-K0244+

Typical Performance Data

TEST CONDITIONS: INPUT POWER =0 dBm @Temperature = +100°C

FREQUENCY (MHz)	INSERTION LOSS (dB)	COUPLING (dB)	DIRECTIVITY (dB)	RETURN LOSS		
				IN	(dB) OUT	CPL
10	0.02	52.99	23.52	55.33	67.99	40.35
500	0.14	18.74	26.24	33.41	33.72	33.06
1000	0.33	13.48	29.50	29.07	28.76	30.64
2000	0.64	9.97	30.85	48.99	40.30	41.55
4000	0.74	9.93	26.00	33.10	32.29	34.89
6000	0.85	9.78	29.33	26.20	23.71	28.74
8000	0.91	9.83	28.19	22.33	22.40	23.85
10000	0.94	10.11	25.16	21.62	21.87	25.74
11000	0.95	9.99	26.15	36.64	33.26	26.38
12000	1.00	9.86	26.47	26.90	26.38	33.52
13000	0.98	10.15	23.47	42.95	39.19	23.02
14000	1.00	10.23	24.29	32.16	39.56	28.61
15000	1.06	9.97	28.36	35.42	34.74	23.53
16000	1.08	10.02	19.13	28.17	39.13	22.68
17000	1.10	10.13	29.29	30.79	30.74	22.81
18000	1.17	9.83	17.80	29.24	47.07	21.27
19000	1.23	9.65	30.21	29.47	27.26	35.42
20000	1.23	9.98	18.28	26.71	27.83	21.26
21000	1.25	9.97	26.67	28.69	29.03	39.76
22000	1.30	9.75	24.53	29.26	33.46	29.71
23000	1.31	9.93	19.78	23.47	24.61	25.51
24000	1.30	10.27	30.50	28.22	28.71	22.50
25000	1.32	10.27	18.08	26.77	28.99	26.29
26000	1.38	10.13	37.96	25.21	27.22	23.86
27000	1.39	10.22	18.11	32.39	39.58	20.64
28000	1.43	10.12	29.93	35.89	37.49	24.35
29000	1.48	10.07	20.45	30.65	32.99	20.81
30000	1.50	10.25	25.74	26.74	24.99	22.38
31000	1.51	10.41	22.67	31.48	30.75	28.18
32000	1.55	10.32	19.17	26.03	27.98	21.86
33000	1.60	10.26	20.95	24.04	26.12	35.83
34000	1.61	10.54	19.29	22.23	32.66	19.75
35000	1.65	10.29	19.14	25.73	34.14	44.51
36000	1.69	10.26	17.79	23.33	31.73	21.44
37000	1.72	10.47	18.33	19.73	20.72	22.01
38000	1.77	10.25	16.66	28.59	35.95	29.66
39000	1.92	10.19	15.34	18.02	18.62	18.89
40000	1.82	9.90	16.63	22.71	26.75	21.68
43500	1.99	9.95	14.02	18.10	20.40	19.38