

Directional Coupler

ADC-20-12+

Typical Performance Data

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

FREQUENCY (MHz)	INSERTION LOSS (dB)	COUPLING LOSS (dB)	DIRECTIVITY (dB)	RETURN LOSS (dB)		
				IN	OUT	CPL
10	0.44	19.44	19.32	21.23	21.44	18.21
25	0.39	19.52	20.85	25.45	26.15	22.41
50	0.38	19.59	21.18	27.41	28.41	24.59
75	0.38	19.65	21.24	27.95	29.10	25.48
100	0.38	19.69	21.33	27.91	29.05	25.84
125	0.39	19.72	21.50	27.54	28.67	25.87
150	0.40	19.76	21.63	27.06	28.22	25.75
175	0.40	19.78	21.84	26.54	27.70	25.50
200	0.41	19.81	22.00	25.97	27.15	25.21
250	0.43	19.87	22.42	24.89	26.12	24.54
300	0.44	19.92	22.97	23.94	25.10	23.80
350	0.46	19.95	23.60	23.06	24.20	23.12
400	0.47	19.99	24.31	22.28	23.40	22.44
450	0.49	20.02	24.99	21.56	22.64	21.80
475	0.50	20.03	25.46	21.24	22.29	21.51
500	0.51	20.04	25.71	20.91	21.94	21.22
550	0.52	20.05	26.28	20.34	21.33	20.68
600	0.54	20.06	26.94	19.81	20.79	20.18
650	0.56	20.06	26.84	19.32	20.23	19.72
700	0.58	20.05	26.44	18.86	19.77	19.29
750	0.60	20.03	25.31	18.41	19.32	18.90
800	0.62	20.01	24.78	18.03	18.92	18.54
850	0.64	19.98	23.88	17.68	18.61	18.21
900	0.66	19.94	22.72	17.31	18.25	17.88
950	0.68	19.90	21.70	16.98	17.95	17.59
1000	0.70	19.85	20.54	16.62	17.60	17.30
1025	0.71	19.86	20.20	16.56	17.54	17.18
1050	0.72	19.82	19.81	16.40	17.37	17.05
1075	0.73	19.79	19.41	16.23	17.23	16.92
1100	0.74	19.78	18.86	16.11	17.09	16.81
1150	0.76	19.70	18.26	15.79	16.80	16.56
1175	0.77	19.67	17.91	15.65	16.66	16.45
1200	0.79	19.66	17.34	15.53	16.54	16.35
1225	0.80	19.62	17.24	15.40	16.44	16.24
1250	0.81	19.59	16.84	15.27	16.30	16.13
1300	0.82	19.54	16.29	15.07	16.11	15.94
1400	0.86	19.40	15.11	14.59	15.68	15.61
1500	0.91	19.29	13.98	14.15	15.31	15.30
1600	0.95	19.11	13.31	13.70	14.96	15.02
1700	1.01	18.94	12.61	13.23	14.55	14.72
1800	1.07	18.81	11.78	12.86	14.27	14.48
1900	1.13	18.67	11.32	12.44	13.87	14.22
2000	1.19	18.51	10.62	12.08	13.57	14.00
2100	1.27	18.39	10.08	11.63	13.17	13.79
2200	1.33	18.26	9.65	11.24	12.87	13.56
2300	1.41	18.10	9.19	10.80	12.46	13.30
2400	1.49	17.94	8.80	10.36	12.11	13.06
2500	1.58	17.89	8.30	9.96	11.84	12.80
2600	1.69	17.78	8.24	9.50	11.48	12.48
2700	1.81	17.79	7.59	9.13	11.22	12.19
2800	1.90	17.69	7.21	8.76	10.94	11.93
2900	2.01	17.59	6.89	8.33	10.67	11.60
3000	2.15	17.44	6.85	7.95	10.43	11.19

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Directional Coupler

ADC-20-12+

Typical Performance Data

TEST CONDITIONS: INPUT POWER =0 dBm @Temperature = -40°C

FREQUENCY (MHz)	INSERTION LOSS (dB)	COUPLING LOSS (dB)	DIRECTIVITY (dB)	RETURN LOSS (dB)		
				IN	OUT	CPL
10	0.26	19.32	14.88	17.27	17.07	14.50
25	0.31	19.50	19.08	23.82	24.10	20.70
50	0.31	19.55	19.92	26.81	27.40	24.08
75	0.32	19.60	20.26	27.12	27.79	25.40
100	0.32	19.65	20.52	26.72	27.35	25.89
125	0.33	19.69	20.75	26.61	27.31	25.98
150	0.33	19.72	20.88	26.70	27.52	25.84
175	0.33	19.74	20.95	26.44	27.31	25.52
200	0.34	19.76	20.99	25.67	26.51	25.17
250	0.35	19.79	21.45	24.28	25.15	24.48
300	0.36	19.82	21.95	23.68	24.55	23.82
350	0.38	19.83	22.38	22.58	23.42	23.16
400	0.39	19.85	23.12	21.79	22.63	22.42
450	0.41	19.85	23.78	21.25	22.07	21.68
475	0.41	19.86	24.06	20.90	21.67	21.36
500	0.42	19.86	24.27	20.50	21.26	21.05
550	0.44	19.86	24.92	19.94	20.68	20.50
600	0.45	19.85	25.55	19.45	20.18	20.01
650	0.46	19.85	25.72	18.96	19.63	19.52
700	0.48	19.82	25.78	18.51	19.19	19.07
750	0.50	19.80	25.22	18.05	18.72	18.65
800	0.52	19.76	24.86	17.67	18.32	18.28
850	0.53	19.74	24.29	17.25	17.92	17.94
900	0.55	19.70	23.04	16.72	17.42	17.60
950	0.57	19.66	22.10	16.41	17.11	17.28
1000	0.60	19.61	21.06	16.15	16.85	16.97
1025	0.59	19.59	20.87	16.07	16.75	16.84
1050	0.60	19.56	20.44	15.92	16.59	16.71
1075	0.61	19.52	20.07	15.77	16.46	16.58
1100	0.62	19.50	19.62	15.67	16.34	16.46
1150	0.64	19.42	19.03	15.38	16.08	16.21
1175	0.65	19.39	18.64	15.23	15.92	16.09
1200	0.66	19.36	18.18	15.04	15.75	15.98
1225	0.68	19.32	17.84	14.86	15.57	15.87
1250	0.69	19.30	17.41	14.71	15.40	15.78
1300	0.70	19.23	16.88	14.61	15.30	15.61
1400	0.73	19.11	15.73	14.33	15.11	15.34
1500	0.78	18.96	14.67	13.80	14.67	15.03
1600	0.83	18.78	13.78	13.23	14.20	14.76
1700	0.87	18.61	12.99	12.99	14.00	14.51
1800	0.92	18.48	12.37	12.73	13.78	14.26
1900	0.98	18.36	11.64	12.19	13.35	14.07
2000	1.03	18.22	10.95	11.98	13.11	13.88
2100	1.12	18.12	10.42	11.42	12.68	13.70
2200	1.17	17.96	9.92	11.00	12.34	13.47
2300	1.22	17.77	9.58	10.76	12.10	13.25
2400	1.33	17.69	8.90	10.08	11.54	13.09
2500	1.41	17.56	8.51	9.84	11.30	12.80
2600	1.50	17.51	8.19	9.32	11.00	12.54
2700	1.58	17.43	8.17	9.09	10.81	12.20
2800	1.70	17.40	7.31	8.63	10.43	11.99
2900	1.81	17.30	7.02	8.20	10.08	11.63
3000	1.97	17.27	6.92	7.67	9.72	11.18

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Directional Coupler

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Typical Performance Data

TEST CONDITIONS: INPUT POWER =0 dBm @Temperature = -85°C

FREQUENCY (MHz)	INSERTION LOSS (dB)	COUPLING LOSS (dB)	DIRECTIVITY (dB)	RETURN LOSS		
				IN (dB)	OUT (dB)	CPL
10	0.50	19.50	22.11	23.76	24.42	20.26
25	0.46	19.57	22.60	26.32	27.47	22.99
50	0.46	19.63	22.84	27.29	28.61	24.07
75	0.46	19.68	22.90	27.66	29.18	24.29
100	0.46	19.73	22.89	27.75	29.37	24.33
125	0.47	19.78	22.88	27.39	28.95	24.28
150	0.48	19.83	22.96	26.74	28.16	24.22
175	0.48	19.88	23.22	26.12	27.46	24.12
200	0.49	19.93	23.47	25.68	27.08	24.00
250	0.50	20.02	23.98	24.98	26.59	23.64
300	0.52	20.12	24.55	24.02	25.54	23.14
350	0.54	20.19	25.34	23.21	24.71	22.60
400	0.55	20.26	26.18	22.59	24.10	22.06
450	0.57	20.31	26.73	21.86	23.34	21.54
475	0.58	20.34	27.20	21.54	22.98	21.31
500	0.59	20.36	27.40	21.24	22.65	21.08
550	0.61	20.41	27.68	20.74	22.13	20.65
600	0.62	20.42	27.61	20.15	21.54	20.22
650	0.64	20.45	26.71	19.68	20.99	19.81
700	0.67	20.45	25.78	19.24	20.58	19.42
750	0.68	20.45	24.49	18.80	20.14	19.06
800	0.71	20.44	23.47	18.43	19.76	18.72
850	0.72	20.43	22.58	18.13	19.50	18.40
900	0.74	20.41	21.45	17.77	19.18	18.08
950	0.76	20.37	20.51	17.42	18.87	17.81
1000	0.80	20.36	19.39	17.11	18.58	17.52
1025	0.79	20.33	19.12	16.95	18.41	17.40
1050	0.80	20.31	18.78	16.79	18.25	17.27
1075	0.81	20.28	18.38	16.61	18.08	17.14
1100	0.82	20.25	18.01	16.46	17.92	17.01
1150	0.84	20.19	17.39	16.08	17.57	16.76
1175	0.85	20.16	17.09	15.92	17.40	16.63
1200	0.87	20.14	16.68	15.80	17.29	16.52
1225	0.88	20.10	16.47	15.66	17.15	16.40
1250	0.89	20.07	16.19	15.51	17.01	16.29
1300	0.91	20.01	15.69	15.26	16.76	16.06
1400	0.96	19.89	14.53	14.71	16.26	15.68
1500	1.00	19.73	13.64	14.28	15.90	15.31
1600	1.05	19.55	13.00	13.76	15.46	14.98
1700	1.13	19.41	12.14	13.27	15.00	14.63
1800	1.18	19.25	11.70	12.80	14.63	14.30
1900	1.25	19.09	10.82	12.29	14.12	14.04
2000	1.31	18.93	10.30	11.95	13.87	13.77
2100	1.40	18.76	9.80	11.51	13.44	13.49
2200	1.46	18.60	9.43	11.11	13.12	13.23
2300	1.55	18.43	9.03	10.63	12.73	12.98
2400	1.64	18.28	8.54	10.27	12.46	12.74
2500	1.75	18.23	7.98	9.84	12.17	12.49
2600	1.85	18.06	7.75	9.44	11.87	12.24
2700	1.95	17.95	7.57	9.02	11.55	11.94
2800	2.07	17.85	6.89	8.68	11.42	11.77
2900	2.19	17.72	6.61	8.29	11.21	11.48
3000	2.31	17.70	6.43	8.08	11.11	11.17

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