

Directional Coupler

SCDC-11-2

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
300	1.53	12.51	16.34	11.38	11.30	11.73
350	1.40	12.33	16.70	12.68	12.50	13.20
375	1.36	12.26	16.79	13.30	13.06	13.93
400	1.31	12.19	16.87	13.92	13.59	14.66
425	1.28	12.14	16.91	14.52	14.13	15.39
450	1.24	12.09	16.92	15.12	14.64	16.14
500	1.19	12.01	16.88	16.26	15.66	17.65
525	1.18	11.97	16.85	16.84	16.15	18.43
550	1.16	11.94	16.80	17.43	16.63	19.23
575	1.15	11.90	16.73	18.01	17.08	20.06
600	1.13	11.88	16.65	18.60	17.54	20.92
650	1.12	11.83	16.47	19.77	18.44	22.62
675	1.11	11.80	16.41	20.30	18.87	23.42
700	1.11	11.78	16.25	20.86	19.32	24.14
725	1.11	11.76	16.14	21.43	19.71	24.77
750	1.10	11.75	16.03	22.02	20.10	25.22
775	1.10	11.73	15.91	22.56	20.45	25.52
800	1.10	11.71	15.83	23.07	20.79	25.55
825	1.10	11.69	15.71	23.60	21.13	25.40
850	1.11	11.68	15.59	24.11	21.43	25.08
875	1.11	11.67	15.46	24.56	21.75	24.62
900	1.12	11.65	15.34	25.04	22.05	24.07
950	1.13	11.62	15.11	25.90	22.53	22.89
975	1.13	11.60	14.99	26.27	22.68	22.33
1000	1.14	11.58	14.86	26.66	22.87	21.77
1025	1.15	11.57	14.72	27.01	22.99	21.25
1050	1.15	11.56	14.61	27.33	23.15	20.75
1100	1.18	11.52	14.35	28.04	23.26	19.83
1125	1.19	11.51	14.25	28.32	23.24	19.40
1150	1.20	11.50	14.13	28.51	23.19	18.99
1175	1.22	11.48	14.02	28.83	23.16	18.64
1200	1.23	11.47	13.84	29.08	23.24	18.30
1250	1.25	11.44	13.63	29.59	22.97	17.73
1300	1.28	11.39	13.50	30.16	22.59	17.22
1350	1.31	11.35	13.29	30.45	22.12	16.80
1400	1.34	11.30	13.07	30.70	21.66	16.44
1450	1.39	11.25	12.87	31.37	21.15	16.17
1500	1.43	11.20	12.68	31.40	20.54	15.98
1600	1.51	11.08	12.36	30.79	19.14	15.81
1700	1.61	10.94	12.07	28.94	17.68	15.91
1800	1.73	10.75	11.90	27.06	16.27	16.31
1900	1.87	10.53	11.65	25.25	14.99	17.12
2000	2.02	10.30	11.47	23.79	13.81	18.36
2100	2.18	10.03	11.32	22.72	12.77	20.45
2200	2.35	9.75	11.13	21.97	11.89	23.81
2300	2.53	9.46	10.92	21.61	11.15	30.02
2400	2.71	9.19	10.65	21.66	10.56	35.30
2500	2.88	8.94	10.29	22.17	10.09	25.38
2600	3.03	8.70	9.85	23.04	9.82	20.52
2700	3.17	8.55	9.32	24.71	9.69	17.23
2800	3.27	8.44	8.74	27.07	9.72	15.01
2900	3.33	8.39	8.05	29.00	10.00	13.35
3000	3.38	8.43	7.30	27.00	10.51	11.99

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Directional Coupler

SCDC-11-2

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
300	1.58	12.62	16.39	11.05	10.94	11.40
350	1.45	12.44	16.71	12.25	12.06	12.77
375	1.40	12.36	16.82	12.86	12.60	13.48
400	1.35	12.29	16.90	13.45	13.11	14.17
425	1.31	12.24	16.92	13.99	13.58	14.83
450	1.27	12.19	16.90	14.50	14.03	15.49
500	1.21	12.11	16.86	15.51	14.95	16.90
525	1.19	12.07	16.84	16.06	15.41	17.62
550	1.17	12.04	16.79	16.60	15.84	18.34
575	1.15	12.01	16.71	17.12	16.25	19.11
600	1.13	11.98	16.63	17.66	16.68	19.91
650	1.11	11.92	16.45	18.74	17.53	21.52
675	1.10	11.90	16.36	19.22	17.92	22.35
700	1.10	11.88	16.20	19.69	18.33	23.13
725	1.09	11.86	16.07	20.16	18.68	23.77
750	1.08	11.85	15.94	20.62	19.01	24.30
775	1.08	11.83	15.80	21.09	19.34	24.79
800	1.07	11.81	15.71	21.53	19.67	25.14
825	1.07	11.79	15.59	22.00	19.99	25.27
850	1.07	11.77	15.48	22.47	20.27	25.15
875	1.07	11.76	15.32	22.82	20.54	24.91
900	1.07	11.74	15.18	23.19	20.84	24.55
950	1.08	11.71	14.93	23.94	21.34	23.46
975	1.08	11.69	14.83	24.30	21.50	22.93
1000	1.09	11.67	14.69	24.65	21.64	22.42
1025	1.09	11.66	14.50	24.91	21.74	21.85
1050	1.09	11.65	14.37	25.14	21.92	21.13
1100	1.11	11.61	14.14	25.89	22.21	19.95
1125	1.12	11.60	14.06	26.31	22.25	19.60
1150	1.13	11.58	13.94	26.63	22.22	19.25
1175	1.14	11.57	13.81	26.99	22.17	18.76
1200	1.15	11.56	13.62	27.15	22.23	18.23
1250	1.17	11.53	13.32	27.03	22.09	17.70
1300	1.19	11.48	13.18	27.41	22.01	17.28
1350	1.22	11.44	13.01	28.05	21.60	16.64
1400	1.24	11.39	12.76	28.02	21.22	16.31
1450	1.29	11.34	12.60	28.83	20.90	15.82
1500	1.31	11.28	12.42	29.28	20.45	15.74
1600	1.38	11.17	12.09	29.05	19.11	15.32
1700	1.48	11.02	11.81	27.90	17.80	15.63
1800	1.58	10.84	11.55	26.02	16.34	15.69
1900	1.70	10.62	11.34	24.56	15.09	16.78
2000	1.84	10.38	11.11	23.11	13.94	17.87
2100	1.98	10.11	11.02	22.71	13.03	19.22
2200	2.14	9.82	10.87	21.56	12.08	22.63
2300	2.31	9.52	10.75	20.54	11.21	29.13
2400	2.46	9.22	10.45	21.03	10.69	54.60
2500	2.63	8.95	10.16	21.06	10.17	27.13
2600	2.76	8.68	9.78	21.49	9.83	21.25
2700	2.90	8.49	9.38	22.76	9.61	18.17
2800	3.00	8.36	8.84	24.55	9.59	15.39
2900	3.06	8.27	8.15	26.24	9.82	13.37
3000	3.10	8.26	7.43	27.48	10.30	11.87

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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 (dB)		
				IN	OUT	CPL
300	1.51	12.45	16.31	11.59	11.54	11.94
350	1.38	12.27	16.68	12.95	12.80	13.48
375	1.34	12.19	16.77	13.61	13.38	14.24
400	1.30	12.13	16.83	14.25	13.94	15.00
425	1.26	12.07	16.88	14.88	14.51	15.77
450	1.23	12.02	16.91	15.51	15.06	16.56
500	1.19	11.94	16.88	16.76	16.14	18.18
525	1.17	11.90	16.85	17.38	16.66	19.00
550	1.16	11.87	16.82	18.01	17.18	19.86
575	1.15	11.84	16.74	18.64	17.65	20.73
600	1.13	11.81	16.65	19.26	18.13	21.60
650	1.12	11.76	16.45	20.53	19.08	23.32
675	1.12	11.74	16.39	21.08	19.55	24.13
700	1.12	11.72	16.25	21.68	20.00	24.82
725	1.12	11.70	16.14	22.27	20.40	25.32
750	1.12	11.69	16.04	22.84	20.80	25.63
775	1.12	11.67	15.96	23.42	21.17	25.75
800	1.13	11.64	15.87	24.03	21.54	25.65
825	1.13	11.63	15.77	24.58	21.90	25.34
850	1.13	11.62	15.66	25.20	22.19	24.86
875	1.14	11.60	15.57	25.67	22.52	24.32
900	1.14	11.59	15.45	26.11	22.80	23.73
950	1.16	11.56	15.24	27.04	23.24	22.56
975	1.17	11.53	15.13	27.53	23.37	22.02
1000	1.18	11.52	15.00	27.92	23.55	21.51
1025	1.19	11.51	14.88	28.24	23.53	21.03
1050	1.20	11.49	14.77	28.53	23.65	20.60
1100	1.22	11.46	14.46	29.17	23.59	19.77
1125	1.23	11.44	14.36	29.24	23.53	19.37
1150	1.25	11.43	14.23	29.34	23.48	18.99
1175	1.26	11.41	14.16	29.65	23.44	18.64
1200	1.28	11.40	13.97	30.00	23.46	18.33
1250	1.31	11.38	13.77	30.53	23.15	17.82
1300	1.34	11.33	13.64	31.09	22.62	17.32
1350	1.37	11.28	13.44	31.48	22.07	16.99
1400	1.40	11.24	13.25	31.80	21.45	16.69
1450	1.45	11.19	13.01	32.05	20.89	16.44
1500	1.50	11.14	12.80	32.34	20.29	16.30
1600	1.59	11.01	12.55	30.89	18.82	16.22
1700	1.71	10.85	12.31	28.93	17.32	16.34
1800	1.83	10.68	12.07	26.77	15.93	16.83
1900	1.98	10.46	11.87	25.03	14.70	17.68
2000	2.14	10.23	11.69	23.98	13.62	19.07
2100	2.30	9.98	11.52	23.00	12.61	21.44
2200	2.48	9.70	11.32	22.48	11.77	24.74
2300	2.67	9.43	11.06	22.30	11.08	31.20
2400	2.85	9.18	10.76	22.48	10.54	32.10
2500	3.03	8.93	10.34	23.30	10.13	24.64
2600	3.18	8.73	9.86	24.56	9.88	20.14
2700	3.32	8.60	9.29	26.77	9.81	17.17
2800	3.41	8.51	8.64	29.44	9.92	15.04
2900	3.49	8.48	7.97	29.69	10.18	13.47
3000	3.52	8.52	7.22	26.16	10.74	12.19

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