

Directional Coupler

D18P

Typical Performance Data

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

FREQUENCY (MHz)	INSERTION LOSS (dB)	COUPLING LOSS (dB)	DIRECTIVITY (dB)	RETURN LOSS		
				IN	OUT	CPL
10	0.04	62.47	14.94	45.69	45.72	41.28
25	0.05	54.62	14.40	44.38	44.48	40.91
50	0.06	48.87	14.35	43.26	43.12	40.48
100	0.08	42.87	13.93	41.15	41.35	39.73
250	0.11	34.97	13.82	38.91	38.92	39.56
500	0.15	29.06	13.76	35.58	35.03	41.40
750	0.18	25.62	13.90	32.40	31.88	39.17
1000	0.22	23.22	14.09	29.41	28.97	33.76
1250	0.25	21.40	14.43	26.64	26.37	29.38
1500	0.29	19.97	14.84	24.12	23.98	26.21
1600	0.31	19.48	15.03	23.23	23.09	25.12
1650	0.32	19.24	15.16	22.82	22.64	24.65
1690	0.33	19.06	15.22	22.44	22.32	24.27
1700	0.32	19.02	15.22	22.36	22.25	24.16
1710	0.33	18.97	15.26	22.28	22.17	24.07
1720	0.33	18.93	15.30	22.21	22.08	23.99
1730	0.33	18.88	15.30	22.13	22.00	23.90
1750	0.34	18.80	15.33	21.95	21.85	23.71
1800	0.35	18.59	15.45	21.61	21.48	23.30
1850	0.35	18.39	15.59	21.22	21.08	22.91
1900	0.36	18.19	15.70	20.88	20.75	22.51
1950	0.37	18.00	15.83	20.54	20.41	22.14
1960	0.37	17.97	15.85	20.48	20.34	22.07
1970	0.38	17.94	15.87	20.40	20.26	21.99
1980	0.38	17.90	15.91	20.34	20.17	21.92
1990	0.38	17.86	15.94	20.28	20.10	21.86
2000	0.39	17.82	15.95	20.22	20.06	21.81
2010	0.39	17.79	15.98	20.15	20.02	21.74
2050	0.39	17.65	16.12	19.93	19.76	21.46
2100	0.40	17.48	16.27	19.61	19.45	21.14
2200	0.43	17.16	16.55	19.06	18.92	20.55
2300	0.45	16.86	16.89	18.52	18.37	19.98
2400	0.47	16.58	17.37	18.03	17.89	19.52
2500	0.49	16.32	17.79	17.58	17.42	18.99
2600	0.51	16.07	18.26	17.14	16.99	18.59
2700	0.54	15.84	18.82	16.69	16.56	18.16
2800	0.56	15.63	19.41	16.26	16.15	17.76
2900	0.59	15.42	20.08	15.87	15.70	17.40
3000	0.62	15.24	20.70	15.46	15.31	17.00
3100	0.65	15.07	21.40	15.03	14.90	16.67
3200	0.68	14.91	21.95	14.61	14.47	16.30
3300	0.71	14.76	22.55	14.25	14.08	15.98
3400	0.74	14.62	22.99	13.84	13.65	15.60
3500	0.77	14.49	23.32	13.49	13.25	15.28
3600	0.81	14.38	23.55	13.09	12.84	14.90
3700	0.85	14.28	23.63	12.69	12.41	14.56
3800	0.89	14.18	23.67	12.29	12.03	14.18
3900	0.93	14.10	23.45	11.91	11.64	13.84
4000	0.97	14.03	23.05	11.52	11.24	13.47
4500	1.29	13.86	18.87	9.41	9.12	11.79
5000	1.80	14.04	14.49	7.21	6.92	10.33
5500	2.64	14.64	10.05	5.17	4.97	9.20
6000	4.11	15.97	5.10	3.38	3.27	8.45

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Directional Coupler

D18P

Typical Performance Data

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

FREQUENCY (MHz)	INSERTION LOSS (dB)	COUPLING LOSS (dB)	DIRECTIVITY (dB)	RETURN LOSS		
				IN	(dB) OUT	CPL
10	0.03	63.05	16.30	49.60	48.05	43.02
25	0.04	54.75	14.88	49.76	44.87	41.19
50	0.05	48.96	14.61	51.99	41.41	38.84
100	0.06	42.93	14.44	42.39	42.40	38.92
250	0.07	35.03	14.22	39.37	41.73	40.00
500	0.09	29.09	14.12	37.17	37.13	43.21
750	0.11	25.62	14.17	33.96	33.50	40.78
1000	0.13	23.21	14.34	30.84	30.44	34.06
1250	0.15	21.37	14.66	27.63	27.37	29.36
1500	0.18	19.92	15.03	24.60	24.45	26.22
1600	0.19	19.42	15.19	23.57	23.42	25.12
1650	0.20	19.18	15.35	23.11	22.94	24.69
1690	0.21	19.00	15.43	22.67	22.54	24.01
1700	0.20	18.96	15.46	22.58	22.45	23.84
1710	0.21	18.92	15.49	22.49	22.36	23.72
1720	0.21	18.87	15.51	22.41	22.27	23.64
1730	0.21	18.82	15.53	22.34	22.18	23.57
1750	0.22	18.74	15.58	22.15	22.03	23.51
1800	0.23	18.52	15.71	21.74	21.58	23.35
1850	0.23	18.32	15.82	21.21	21.00	22.79
1900	0.23	18.12	15.92	21.05	20.87	22.35
1950	0.24	17.94	16.00	20.88	20.72	21.90
1960	0.24	17.90	16.05	20.79	20.64	21.80
1970	0.24	17.86	16.08	20.68	20.52	21.70
1980	0.25	17.82	16.12	20.57	20.39	21.61
1990	0.25	17.78	16.15	20.47	20.26	21.53
2000	0.25	17.75	16.14	20.37	20.16	21.47
2010	0.25	17.71	16.16	20.26	20.07	21.42
2050	0.26	17.57	16.27	19.92	19.70	21.28
2100	0.27	17.40	16.44	19.60	19.39	21.07
2200	0.28	17.07	16.77	18.96	18.78	20.38
2300	0.30	16.77	17.07	18.29	18.06	19.84
2400	0.32	16.48	17.55	17.79	17.56	19.30
2500	0.34	16.21	18.00	17.34	17.09	18.84
2600	0.36	15.96	18.56	17.00	16.73	18.58
2700	0.37	15.73	19.21	16.63	16.38	17.85
2800	0.40	15.51	19.84	16.18	15.92	17.69
2900	0.41	15.29	20.50	15.61	15.24	17.18
3000	0.44	15.10	21.08	15.35	15.07	16.71
3100	0.46	14.93	21.84	14.75	14.45	16.31
3200	0.48	14.76	22.60	14.58	14.27	15.99
3300	0.49	14.60	23.34	14.47	14.14	15.41
3400	0.52	14.45	23.89	13.99	13.59	15.13
3500	0.54	14.32	24.18	13.75	13.34	14.73
3600	0.58	14.21	24.29	13.22	12.76	14.28
3700	0.62	14.09	24.33	12.69	12.21	13.99
3800	0.65	14.00	24.10	12.28	11.81	13.66
3900	0.69	13.92	23.77	11.87	11.39	13.27
4000	0.73	13.83	23.29	11.50	11.00	13.05
4500	1.01	13.64	19.17	9.40	8.89	11.41
5000	1.52	13.76	14.50	7.11	6.61	10.23
5500	2.34	14.30	10.15	5.05	4.65	9.17
6000	3.79	15.56	5.22	3.23	2.90	8.20

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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	OUT	CPL
10	0.06	62.58	14.33	43.35	43.70	39.93
25	0.07	54.55	14.46	41.28	43.15	40.29
50	0.08	48.90	13.88	39.91	43.85	41.81
100	0.10	42.82	13.58	40.59	41.39	40.66
250	0.14	34.93	13.39	38.16	37.46	39.46
500	0.19	29.01	13.43	34.14	33.60	40.20
750	0.23	25.60	13.53	31.07	30.51	37.88
1000	0.28	23.23	13.74	28.31	27.77	33.19
1250	0.32	21.42	14.14	25.96	25.64	29.22
1500	0.37	19.99	14.59	24.00	23.83	26.25
1600	0.39	19.50	14.76	23.22	23.08	25.19
1650	0.41	19.27	14.88	22.84	22.66	24.70
1690	0.42	19.09	14.96	22.49	22.35	24.34
1700	0.41	19.05	14.96	22.40	22.28	24.23
1710	0.42	19.01	14.99	22.32	22.20	24.14
1720	0.42	18.96	15.01	22.23	22.12	24.07
1730	0.42	18.92	15.02	22.14	22.02	23.98
1750	0.43	18.83	15.08	21.99	21.86	23.82
1800	0.44	18.63	15.18	21.75	21.64	23.39
1850	0.45	18.42	15.33	21.42	21.32	23.06
1900	0.46	18.23	15.44	21.10	21.02	22.68
1950	0.47	18.05	15.56	20.77	20.67	22.30
1960	0.47	18.02	15.60	20.70	20.61	22.22
1970	0.48	17.98	15.65	20.64	20.54	22.14
1980	0.48	17.94	15.67	20.60	20.47	22.07
1990	0.48	17.90	15.69	20.56	20.41	22.02
2000	0.48	17.87	15.70	20.51	20.38	21.97
2010	0.48	17.83	15.72	20.45	20.35	21.91
2050	0.49	17.70	15.86	20.32	20.19	21.64
2100	0.51	17.53	16.01	20.02	19.91	21.25
2200	0.53	17.22	16.28	19.48	19.40	20.72
2300	0.56	16.91	16.59	18.98	18.89	20.13
2400	0.58	16.64	17.01	18.50	18.43	19.67
2500	0.61	16.38	17.36	18.00	17.94	19.17
2600	0.64	16.15	17.78	17.46	17.41	18.71
2700	0.67	15.93	18.33	16.95	16.93	18.32
2800	0.70	15.72	18.87	16.49	16.50	17.89
2900	0.73	15.52	19.48	16.14	16.09	17.55
3000	0.76	15.34	20.04	15.64	15.59	17.13
3100	0.79	15.17	20.68	15.21	15.20	16.83
3200	0.84	15.03	21.12	14.61	14.56	16.44
3300	0.87	14.88	21.62	14.12	14.04	16.17
3400	0.92	14.76	21.99	13.64	13.56	15.74
3500	0.96	14.64	22.35	13.21	13.06	15.48
3600	1.01	14.54	22.56	12.84	12.70	15.10
3700	1.05	14.43	22.76	12.51	12.34	14.71
3800	1.10	14.36	22.84	12.07	11.91	14.32
3900	1.15	14.28	22.82	11.73	11.56	14.02
4000	1.20	14.22	22.48	11.27	11.08	13.61
4500	1.55	14.07	18.48	9.23	9.06	11.98
5000	2.07	14.26	14.27	7.23	7.07	10.45
5500	2.89	14.90	9.86	5.28	5.21	9.31
6000	4.35	16.31	4.85	3.52	3.58	8.66

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