

Directional Coupler

D171A+

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
2000	0.21	18.58	16.80	27.33	28.02	18.33
2025	0.21	18.49	16.69	27.25	27.94	18.19
2050	0.22	18.39	16.64	27.16	27.84	18.12
2075	0.22	18.30	16.51	26.99	27.63	18.06
2100	0.22	18.19	16.43	26.95	27.55	17.93
2125	0.22	18.10	16.33	26.82	27.46	17.88
2150	0.23	18.01	16.27	26.74	27.34	17.77
2175	0.23	17.92	16.15	26.54	27.15	17.64
2200	0.23	17.83	16.08	26.40	27.09	17.58
2225	0.23	17.74	16.01	26.32	27.00	17.46
2250	0.23	17.65	15.85	26.19	26.74	17.36
2275	0.24	17.56	15.80	25.98	26.68	17.30
2300	0.24	17.48	15.71	25.94	26.54	17.17
2325	0.24	17.39	15.60	25.75	26.40	17.09
2350	0.25	17.31	15.54	25.61	26.31	17.03
2375	0.25	17.23	15.40	25.43	26.06	16.91
2400	0.25	17.15	15.30	25.25	25.91	16.85
2425	0.25	17.06	15.22	25.14	25.81	16.75
2450	0.26	16.98	15.10	24.94	25.58	16.63
2475	0.26	16.91	15.02	24.76	25.46	16.58
2500	0.26	16.83	14.90	24.62	25.24	16.46
2525	0.26	16.76	14.79	24.40	25.08	16.36
2550	0.27	16.68	14.70	24.23	24.91	16.31
2575	0.27	16.61	14.59	24.17	24.82	16.18
2600	0.27	16.54	14.50	23.95	24.67	16.08
2625	0.27	16.46	14.42	23.80	24.47	16.01
2650	0.28	16.39	14.31	23.60	24.26	15.87
2675	0.28	16.33	14.18	23.39	24.10	15.76
2700	0.28	16.25	14.09	23.25	23.94	15.67
2725	0.29	16.18	13.98	23.03	23.69	15.53
2750	0.29	16.12	13.88	22.85	23.53	15.46
2775	0.29	16.05	13.74	22.66	23.37	15.36
2800	0.29	15.98	13.64	22.49	23.16	15.24

Directional Coupler

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Typical Performance Data

TEST CONDITIONS: INPUT POWER =0 dBm @Temperature = -45 °C

FREQUENCY (MHz)	INSERTION LOSS (dB)	COUPLING LOSS (dB)	DIRECTIVITY (dB)	RETURN LOSS (dB)		
				In	Out	Cpl
2000	0.12	18.52	16.24	26.49	27.06	16.56
2025	0.12	18.42	16.14	26.52	27.12	16.46
2050	0.12	18.32	16.07	26.56	27.15	16.41
2075	0.12	18.22	15.96	26.49	27.05	16.35
2100	0.12	18.12	15.86	26.58	27.10	16.25
2125	0.13	18.02	15.79	26.53	27.13	16.21
2150	0.13	17.93	15.68	26.53	27.09	16.12
2175	0.13	17.84	15.54	26.40	26.98	16.03
2200	0.13	17.74	15.49	26.28	26.97	15.99
2225	0.13	17.66	15.40	26.23	26.91	15.88
2250	0.13	17.56	15.24	26.10	26.64	15.80
2275	0.13	17.48	15.21	25.86	26.56	15.76
2300	0.14	17.39	15.08	25.81	26.42	15.65
2325	0.14	17.30	14.98	25.58	26.23	15.61
2350	0.14	17.22	14.92	25.42	26.13	15.56
2375	0.14	17.14	14.76	25.23	25.86	15.47
2400	0.14	17.05	14.64	25.02	25.69	15.44
2425	0.14	16.97	14.57	24.92	25.59	15.36
2450	0.15	16.89	14.44	24.74	25.38	15.28
2475	0.15	16.81	14.35	24.56	25.27	15.23
2500	0.15	16.73	14.25	24.46	25.09	15.14
2525	0.15	16.66	14.15	24.29	24.96	15.06
2550	0.16	16.59	14.05	24.13	24.81	15.02
2575	0.16	16.51	13.96	24.13	24.81	14.91
2600	0.16	16.43	13.87	23.95	24.68	14.83
2625	0.16	16.35	13.78	23.82	24.49	14.76
2650	0.16	16.28	13.67	23.65	24.30	14.64
2675	0.16	16.21	13.60	23.44	24.18	14.57
2700	0.16	16.14	13.49	23.32	24.02	14.48
2725	0.17	16.07	13.37	23.11	23.77	14.37
2750	0.17	16.01	13.27	22.92	23.62	14.31
2775	0.17	15.94	13.16	22.71	23.46	14.23
2800	0.18	15.87	13.04	22.54	23.21	14.13

Directional Coupler

D171A+

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
2000	0.27	18.61	16.93	26.88	27.53	19.57
2025	0.27	18.52	16.85	26.77	27.42	19.41
2050	0.27	18.42	16.76	26.65	27.30	19.31
2075	0.28	18.33	16.70	26.46	27.07	19.22
2100	0.28	18.23	16.63	26.40	26.96	19.05
2125	0.28	18.14	16.56	26.25	26.86	18.97
2150	0.28	18.05	16.46	26.15	26.72	18.84
2175	0.29	17.96	16.35	25.94	26.50	18.68
2200	0.29	17.86	16.28	25.80	26.44	18.61
2225	0.29	17.78	16.25	25.71	26.35	18.46
2250	0.29	17.69	16.11	25.57	26.06	18.34
2275	0.30	17.60	16.04	25.36	26.01	18.26
2300	0.30	17.53	15.99	25.31	25.86	18.10
2325	0.30	17.44	15.88	25.12	25.69	18.00
2350	0.31	17.36	15.83	24.98	25.61	17.91
2375	0.31	17.27	15.68	24.81	25.36	17.75
2400	0.31	17.19	15.57	24.64	25.20	17.68
2425	0.32	17.12	15.51	24.52	25.08	17.58
2450	0.32	17.04	15.40	24.32	24.87	17.44
2475	0.33	16.96	15.30	24.14	24.73	17.38
2500	0.33	16.89	15.21	24.00	24.52	17.25
2525	0.33	16.81	15.11	23.79	24.36	17.12
2550	0.34	16.74	15.01	23.62	24.19	17.06
2575	0.34	16.66	14.92	23.53	24.07	16.91
2600	0.34	16.59	14.82	23.33	23.92	16.79
2625	0.34	16.52	14.73	23.19	23.73	16.71
2650	0.35	16.45	14.61	22.98	23.52	16.55
2675	0.35	16.38	14.51	22.78	23.38	16.45
2700	0.35	16.31	14.41	22.64	23.22	16.34
2725	0.36	16.25	14.27	22.44	22.97	16.19
2750	0.36	16.18	14.21	22.27	22.83	16.11
2775	0.36	16.11	14.06	22.07	22.67	16.01
2800	0.37	16.05	13.95	21.93	22.47	15.87

Directional Coupler

D171A+

Typical Performance Data

TEST CONDITIONS: INPUT POWER =0 dBm @Temperature = +105 °C

FREQUENCY (MHz)	INSERTION LOSS (dB)	COUPLING LOSS (dB)	DIRECTIVITY (dB)	RETURN LOSS (dB)		
				In	Out	Cpl
2000	0.28	18.62	16.95	26.27	26.88	20.01
2025	0.29	18.53	16.89	26.14	26.77	19.83
2050	0.29	18.43	16.79	26.00	26.61	19.73
2075	0.29	18.34	16.71	25.79	26.37	19.62
2100	0.30	18.24	16.61	25.70	26.24	19.43
2125	0.30	18.16	16.51	25.54	26.12	19.33
2150	0.30	18.06	16.46	25.42	25.97	19.17
2175	0.30	17.97	16.32	25.22	25.76	18.99
2200	0.31	17.88	16.27	25.07	25.69	18.91
2225	0.31	17.79	16.21	24.98	25.60	18.75
2250	0.31	17.70	16.06	24.85	25.33	18.62
2275	0.32	17.62	16.01	24.66	25.28	18.54
2300	0.32	17.54	15.93	24.62	25.14	18.37
2325	0.32	17.45	15.82	24.45	25.00	18.26
2350	0.33	17.37	15.75	24.33	24.93	18.18
2375	0.33	17.29	15.62	24.19	24.72	18.01
2400	0.33	17.21	15.53	24.04	24.57	17.93
2425	0.34	17.13	15.46	23.94	24.48	17.81
2450	0.34	17.05	15.35	23.77	24.30	17.67
2475	0.35	16.98	15.24	23.63	24.18	17.60
2500	0.35	16.90	15.17	23.52	24.01	17.46
2525	0.35	16.83	15.07	23.32	23.87	17.33
2550	0.36	16.76	14.97	23.18	23.73	17.26
2575	0.36	16.68	14.90	23.11	23.62	17.11
2600	0.36	16.61	14.79	22.93	23.48	16.98
2625	0.37	16.54	14.71	22.82	23.33	16.90
2650	0.37	16.47	14.61	22.63	23.14	16.74
2675	0.37	16.40	14.49	22.46	23.02	16.63
2700	0.38	16.33	14.41	22.34	22.88	16.52
2725	0.38	16.27	14.30	22.16	22.66	16.36
2750	0.38	16.20	14.22	22.02	22.55	16.27
2775	0.39	16.14	14.07	21.85	22.40	16.17
2800	0.39	16.07	13.97	21.73	22.23	16.04

Directional Coupler

D171A+

Typical Performance Data

TEST CONDITIONS: INPUT POWER =0 dBm @Temperature = +125 °C

FREQUENCY (MHz)	INSERTION LOSS (dB)	COUPLING LOSS (dB)	DIRECTIVITY (dB)	RETURN LOSS (dB)		
				In	Out	Cpl
2000	0.30	18.64	16.83	25.04	25.57	20.26
2025	0.30	18.54	16.74	24.92	25.45	20.09
2050	0.31	18.45	16.66	24.76	25.29	19.98
2075	0.31	18.35	16.56	24.57	25.07	19.85
2100	0.31	18.26	16.48	24.48	24.93	19.61
2125	0.31	18.17	16.37	24.32	24.83	19.49
2150	0.32	18.07	16.31	24.22	24.70	19.31
2175	0.32	17.99	16.16	24.05	24.53	19.12
2200	0.33	17.90	16.11	23.94	24.48	19.03
2225	0.33	17.81	16.01	23.88	24.42	18.88
2250	0.33	17.72	15.92	23.79	24.21	18.76
2275	0.34	17.64	15.84	23.67	24.22	18.70
2300	0.34	17.55	15.75	23.66	24.13	18.53
2325	0.34	17.47	15.68	23.55	24.05	18.43
2350	0.35	17.39	15.62	23.49	24.04	18.33
2375	0.35	17.30	15.52	23.40	23.87	18.15
2400	0.35	17.23	15.40	23.31	23.79	18.04
2425	0.35	17.14	15.35	23.26	23.75	17.91
2450	0.36	17.07	15.26	23.14	23.62	17.75
2475	0.36	17.00	15.16	23.04	23.55	17.67
2500	0.36	16.92	15.07	22.96	23.41	17.53
2525	0.37	16.85	14.99	22.81	23.30	17.40
2550	0.38	16.77	14.91	22.70	23.19	17.35
2575	0.38	16.70	14.83	22.65	23.12	17.21
2600	0.38	16.63	14.74	22.50	23.03	17.10
2625	0.38	16.55	14.64	22.41	22.90	17.02
2650	0.39	16.48	14.56	22.26	22.75	16.87
2675	0.39	16.42	14.44	22.13	22.66	16.74
2700	0.39	16.34	14.39	22.05	22.55	16.63
2725	0.40	16.28	14.26	21.92	22.39	16.46
2750	0.40	16.21	14.18	21.81	22.31	16.38
2775	0.40	16.15	14.05	21.70	22.23	16.27
2800	0.41	16.08	13.97	21.63	22.11	16.14