

Directional Coupler

ADC-10-1R+

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
5	0.72	10.42	40.37	23.39	31.18	20.67
10	0.71	10.42	42.03	23.77	31.70	21.03
20	0.71	10.42	44.16	24.06	32.22	21.30
25	0.71	10.43	44.65	24.06	32.28	21.29
30	0.72	10.44	44.91	24.05	32.30	21.27
40	0.73	10.44	45.82	24.01	32.15	21.20
45	0.73	10.45	46.41	24.01	32.00	21.17
50	0.73	10.46	46.88	24.01	31.85	21.13
100	0.75	10.50	49.77	23.85	30.29	20.59
125	0.76	10.51	49.25	23.73	29.44	20.22
150	0.77	10.53	46.55	23.55	28.69	19.79
200	0.79	10.56	39.95	23.18	27.38	18.87
250	0.80	10.58	35.69	22.72	26.23	17.94
300	0.82	10.61	32.36	22.23	25.34	17.06
350	0.83	10.63	29.64	21.72	24.53	16.25
400	0.85	10.65	27.48	21.27	23.78	15.51
450	0.87	10.67	25.55	20.82	23.11	14.83
500	0.88	10.69	23.84	20.39	22.53	14.23
550	0.90	10.71	22.28	20.07	21.99	13.68
600	0.92	10.73	20.92	19.75	21.52	13.19
650	0.94	10.74	19.64	19.47	21.11	12.76
700	0.96	10.76	18.46	19.25	20.68	12.37
750	0.99	10.77	17.35	19.08	20.33	12.03
800	1.01	10.78	16.40	18.91	19.98	11.72
850	1.04	10.78	15.46	18.87	19.71	11.46
900	1.07	10.78	14.62	18.78	19.45	11.23
950	1.10	10.78	13.83	18.78	19.22	11.03
1000	1.13	10.77	13.07	18.77	19.03	10.86
1050	1.18	10.77	12.33	18.87	18.87	10.73
1100	1.21	10.75	11.68	18.87	18.80	10.61
1200	1.31	10.72	10.45	18.88	18.65	10.47
1300	1.44	10.69	9.32	18.85	18.77	10.42
1400	1.60	10.66	8.34	18.38	19.15	10.46
1500	1.82	10.65	7.40	17.51	19.93	10.56
1600	2.11	10.70	6.56	16.09	21.18	10.72
1700	2.51	10.86	5.74	14.40	23.33	10.88
1800	3.00	11.10	5.06	12.66	26.58	11.05
1900	3.64	11.51	4.41	11.07	28.75	11.19
2000	4.35	12.12	3.87	9.62	24.51	11.36
2100	5.10	12.93	3.45	8.44	19.99	11.68
2200	5.77	13.96	3.20	7.53	16.91	12.29
2300	6.31	15.19	3.07	6.85	14.65	13.45
2400	6.65	16.52	3.17	6.35	12.94	15.43
2500	6.83	18.02	3.30	6.00	11.70	18.65
2600	6.92	19.60	3.35	5.77	10.75	22.74
2700	6.94	21.11	3.25	5.58	10.00	21.10
2800	6.93	22.39	2.57	5.43	9.43	16.47
2900	6.93	23.17	1.94	5.31	8.96	13.23
3000	6.93	23.15	1.73	5.19	8.61	11.00
3100	6.96	22.82	1.69	5.09	8.33	9.42
3200	7.03	22.15	2.07	5.00	8.09	8.30
3300	7.13	21.43	2.43	4.89	7.94	7.48
3400	7.25	20.78	2.83	4.81	7.88	6.88
3500	7.44	20.21	2.90	4.71	7.87	6.40

REV. X1
ADC-10-1R+
081007
Page 1 of 3



IF/RF MICROWAVE COMPONENTS • ISO 9001 ISO 14001 AS 9100 CERTIFIED RoHS compliant
P.O. Box 350166, Brooklyn, New York 11235-0003 (718) 934-4500 Fax (718) 332-4661



The Design Engineers Search Engine finds the model you need, Instantly • For detailed performance specs & shopping online see



Directional Coupler

ADC-10-1R+

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
5	0.91	10.61	35.54	20.26	26.38	17.71
10	0.81	10.51	37.71	21.82	28.47	19.18
20	0.71	10.42	40.16	23.49	30.74	20.74
25	0.70	10.41	40.43	23.78	31.04	20.99
30	0.70	10.41	40.31	23.95	31.08	21.12
40	0.69	10.41	39.99	24.15	30.79	21.26
45	0.69	10.42	40.06	24.22	30.49	21.30
50	0.69	10.42	40.10	24.28	30.20	21.33
100	0.69	10.44	43.45	24.05	27.85	21.11
125	0.70	10.45	46.53	23.98	27.51	20.74
150	0.70	10.46	45.89	23.98	27.38	20.23
200	0.71	10.48	45.39	23.44	26.19	19.09
250	0.72	10.50	39.77	22.65	25.03	18.01
300	0.74	10.52	35.15	22.25	24.52	17.07
350	0.75	10.53	31.95	21.53	23.65	16.21
400	0.76	10.55	29.23	21.02	22.99	15.42
450	0.77	10.57	27.16	20.48	22.32	14.68
500	0.79	10.59	25.17	19.96	21.72	14.03
550	0.80	10.60	23.47	19.63	21.24	13.45
600	0.82	10.62	21.98	19.24	20.74	12.93
650	0.83	10.63	20.60	18.97	20.38	12.48
700	0.85	10.64	19.39	18.71	19.94	12.07
750	0.87	10.65	18.23	18.52	19.59	11.70
800	0.89	10.65	17.27	18.33	19.26	11.37
850	0.92	10.66	16.30	18.15	18.87	11.08
900	0.94	10.65	15.40	18.01	18.59	10.84
950	0.96	10.63	14.57	17.99	18.35	10.62
1000	1.00	10.63	13.78	17.89	18.07	10.44
1050	1.03	10.61	12.99	17.89	17.84	10.28
1100	1.06	10.59	12.26	17.90	17.76	10.16
1200	1.14	10.53	11.02	17.90	17.56	9.99
1300	1.25	10.48	9.80	18.03	17.67	9.90
1400	1.39	10.42	8.74	17.87	17.96	9.88
1500	1.57	10.38	7.77	17.41	18.57	9.92
1600	1.82	10.37	6.85	16.35	19.64	10.05
1700	2.18	10.45	6.00	14.73	21.17	10.20
1800	2.63	10.58	5.32	13.18	24.21	10.30
1900	3.24	10.88	4.59	11.39	27.74	10.40
2000	3.94	11.34	4.06	9.85	25.62	10.49
2100	4.77	12.05	3.54	8.42	20.71	10.49
2200	5.51	12.94	3.32	7.52	17.05	10.73
2300	6.14	14.04	3.22	6.73	14.52	11.42
2400	6.56	15.27	3.37	6.10	12.68	12.68
2500	6.76	16.60	3.77	5.75	11.31	14.90
2600	6.83	17.96	4.30	5.54	10.28	18.45
2700	6.81	19.25	4.86	5.35	9.47	21.77
2800	6.75	20.32	4.76	5.19	8.87	18.64
2900	6.72	21.06	4.13	5.03	8.27	14.29
3000	6.66	21.16	3.64	4.92	7.93	11.57
3100	6.65	21.01	3.13	4.81	7.62	9.80
3200	6.69	20.57	3.08	4.69	7.34	8.50
3300	6.75	20.03	3.16	4.61	7.18	7.59
3400	6.85	19.54	3.34	4.48	7.08	6.94
3500	7.01	19.10	3.24	4.38	7.02	6.41

REV. X1
ADC-10-1R+
081007
Page 2 of 3



IF/RF MICROWAVE COMPONENTS • ISO 9001 ISO 14001 AS 9100 CERTIFIED • RoHS compliant
P.O. Box 350166, Brooklyn, New York 11235-0003 (718) 934-4500 Fax (718) 332-4661



The Design Engineers Search Engine finds the model you need, Instantly • For detailed performance specs & shopping online see



Directional Coupler

ADC-10-1R+

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
5	0.79	10.51	42.02	22.68	34.25	20.09
10	0.79	10.51	44.69	22.88	34.78	20.27
20	0.79	10.52	48.57	23.02	35.12	20.39
25	0.80	10.53	49.83	23.01	35.05	20.38
30	0.80	10.53	50.86	22.99	34.94	20.35
40	0.81	10.55	55.38	22.94	34.71	20.29
45	0.81	10.55	60.96	22.93	34.60	20.26
50	0.82	10.55	65.19	22.91	34.51	20.22
100	0.84	10.59	49.25	22.94	33.40	19.65
125	0.85	10.62	47.48	22.86	31.64	19.31
150	0.86	10.64	44.74	22.63	30.02	18.96
200	0.87	10.67	37.26	22.35	28.48	18.24
250	0.89	10.70	33.89	22.17	27.37	17.47
300	0.90	10.74	31.03	21.68	26.09	16.69
350	0.92	10.78	28.36	21.31	25.28	15.94
400	0.93	10.81	26.41	20.98	24.52	15.24
450	0.95	10.84	24.59	20.57	23.75	14.61
500	0.97	10.88	22.94	20.22	23.15	14.05
550	0.99	10.91	21.44	19.96	22.58	13.55
600	1.01	10.94	20.16	19.65	22.03	13.10
650	1.03	10.96	18.96	19.41	21.61	12.69
700	1.05	10.99	17.83	19.22	21.16	12.33
750	1.07	11.01	16.79	19.09	20.80	12.01
800	1.10	11.03	15.88	18.98	20.44	11.73
850	1.13	11.05	15.00	18.99	20.19	11.48
900	1.16	11.05	14.24	18.96	19.95	11.26
950	1.19	11.06	13.51	18.92	19.69	11.07
1000	1.23	11.07	12.80	18.90	19.47	10.91
1050	1.27	11.07	12.11	18.99	19.29	10.78
1100	1.31	11.06	11.53	18.90	19.15	10.67
1200	1.41	11.05	10.35	18.78	18.84	10.54
1300	1.54	11.04	9.28	18.64	18.84	10.50
1400	1.71	11.03	8.35	18.12	19.04	10.53
1500	1.92	11.04	7.48	17.34	19.57	10.65
1600	2.20	11.11	6.70	16.14	20.39	10.82
1700	2.55	11.28	5.91	14.65	21.73	10.99
1800	2.99	11.51	5.22	13.09	23.45	11.22
1900	3.53	11.88	4.60	11.68	25.33	11.45
2000	4.12	12.40	4.04	10.36	24.85	11.69
2100	4.76	13.09	3.60	9.28	21.75	12.08
2200	5.39	13.95	3.25	8.29	18.83	12.70
2300	5.94	14.97	2.95	7.59	16.50	13.71
2400	6.38	16.06	2.86	7.02	14.63	15.40
2500	6.71	17.36	2.66	6.58	13.26	18.20
2600	6.96	18.76	2.46	6.27	12.15	23.66
2700	7.13	20.26	2.21	6.02	11.30	43.81
2800	7.24	21.87	1.54	5.83	10.65	23.18
2900	7.34	23.39	0.72	5.69	10.13	17.34
3000	7.41	24.54	0.00	5.51	9.72	13.95
3100	7.50	25.18	0.50	5.41	9.38	11.55
3200	7.59	25.09	0.44	5.31	9.11	9.88
3300	7.69	24.39	0.21	5.23	8.93	8.70
3400	7.80	23.67	0.91	5.14	8.82	7.81
3500	7.98	22.82	1.55	5.00	8.73	7.11

REV. X1
ADC-10-1R+
081007
Page 3 of 3



IF/Rf MICROWAVE COMPONENTS • ISO 9001 ISO 14001 AS 9100 CERTIFIED RoHS compliant
P.O. Box 350166, Brooklyn, New York 11235-0003 (718) 934-4500 Fax (718) 332-4661



The Design Engineers Search Engine finds the model you need, Instantly • For detailed performance specs & shopping online see

