

Typical Performance Data

FREQ. (MHz)	INSERTION LOSS			INPUT RETURN LOSS			OUTPUT RETURN LOSS		
	(dB)			(dB)			(dB)		
	@-40°C	@+25°C	@+85°C	@-40°C	@+25°C	@+85°C	@-40°C	@+25°C	@+85°C
0.5	0.02	0.03	0.03	51.55	48.85	47.16	51.67	49.05	47.13
1.0	0.02	0.04	0.04	51.13	48.72	46.81	51.08	48.88	46.81
5.0	0.04	0.05	0.05	48.96	46.60	44.00	48.29	46.58	44.47
10.0	0.04	0.04	0.06	46.98	45.08	41.53	45.14	44.89	42.76
50.0	0.11	0.12	0.14	41.39	37.76	34.08	35.59	36.67	38.02
100.0	0.16	0.19	0.22	31.54	28.50	25.20	31.59	27.64	24.31
150.0	0.23	0.28	0.31	23.88	22.92	21.91	23.26	22.41	21.61
160.0	0.24	0.29	0.32	22.82	22.11	21.29	22.44	21.76	21.02
170.0	0.26	0.31	0.35	21.99	21.52	20.89	21.81	21.25	20.61
180.0	0.27	0.32	0.35	21.33	21.10	20.71	21.25	20.92	20.45
190.0	0.29	0.34	0.37	20.78	20.84	20.75	20.78	20.77	20.55
200.0	0.30	0.34	0.38	20.30	20.74	21.00	20.42	20.82	20.99
250.0	0.33	0.40	0.42	23.11	25.10	26.82	24.15	26.90	30.40
300.0	0.44	0.53	0.58	24.77	24.42	23.82	24.08	23.70	23.15
350.0	0.63	0.75	0.84	30.71	35.03	36.13	29.63	34.00	36.65
355.0	0.67	0.81	0.91	44.08	38.88	31.72	40.25	45.49	34.27
360.0	0.72	0.86	0.97	33.95	29.43	26.24	36.19	30.94	27.60
365.0	0.79	0.94	1.07	26.98	24.96	23.03	28.30	26.21	24.31
370.0	0.87	1.04	1.18	23.68	22.63	21.31	25.34	24.43	23.25
375.0	0.97	1.16	1.31	22.08	21.58	20.58	25.15	25.38	24.96
377.0	1.01	1.21	1.37	21.66	21.26	20.31	25.89	26.85	26.94
379.0	1.08	1.28	1.46	21.13	20.71	19.73	27.00	28.74	29.30
381.0	1.14	1.36	1.56	20.21	19.64	18.59	27.06	28.10	27.56
383.0	1.24	1.48	1.71	18.68	17.94	16.83	24.36	23.79	22.50
385.0	1.37	1.64	1.91	16.61	15.75	14.65	20.38	19.35	18.06
387.0	1.55	1.87	2.19	14.26	13.41	12.39	16.66	15.64	14.49
389.0	1.83	2.20	2.59	11.90	11.13	10.22	13.47	12.57	11.59
392.0	2.46	2.95	3.47	8.68	8.10	7.41	9.54	8.89	8.17
394.0	3.11	3.67	4.29	6.87	6.43	5.90	7.47	6.99	6.42
395.0	3.51	4.12	4.78	6.08	5.71	5.25	6.59	6.18	5.70
400.0	6.27	7.04	7.89	3.25	3.17	3.01	3.47	3.38	3.21
405.0	10.04	10.86	11.77	1.88	1.94	1.93	1.98	2.03	2.00
410.0	14.27	15.06	15.98	1.27	1.37	1.43	1.31	1.40	1.45
412.0	16.02	16.79	17.70	1.13	1.25	1.31	1.15	1.26	1.31
415.0	18.66	19.41	20.30	0.99	1.11	1.18	0.98	1.10	1.16
420.0	23.04	23.76	24.62	0.84	0.95	1.03	0.82	0.94	1.00
425.0	27.45	28.13	28.96	0.74	0.85	0.93	0.72	0.84	0.90
430.0	31.87	32.50	33.33	0.68	0.79	0.86	0.66	0.77	0.84
435.0	36.45	37.06	37.84	0.65	0.75	0.82	0.62	0.73	0.79
440.0	40.69	41.29	42.05	0.61	0.70	0.77	0.57	0.68	0.75
500.0	45.59	45.63	45.57	0.37	0.46	0.51	0.36	0.45	0.50
600.0	48.79	48.84	48.93	0.23	0.32	0.36	0.22	0.31	0.36
650.0	53.42	53.38	53.41	0.21	0.30	0.33	0.19	0.28	0.32
700.0	58.22	58.26	58.27	0.20	0.29	0.32	0.16	0.25	0.29
800.0	72.81	73.48	73.13	0.20	0.29	0.33	0.13	0.23	0.27
900.0	79.28	78.78	79.24	0.23	0.33	0.36	0.12	0.23	0.27
1000.0	72.48	73.46	71.91	0.26	0.36	0.39	0.12	0.22	0.26
1200.0	74.71	77.09	73.19	0.28	0.37	0.42	0.13	0.25	0.28
1400.0	72.15	71.50	70.54	0.26	0.37	0.43	0.17	0.28	0.32
1600.0	68.38	68.47	70.13	0.26	0.37	0.44	0.21	0.34	0.37
1800.0	65.51	65.30	64.96	0.20	0.35	0.42	0.23	0.38	0.43
2000.0	74.18	74.34	67.86	0.18	0.34	0.42	0.23	0.40	0.46
2500.0	54.99	54.10	52.70	0.22	0.40	0.48	0.19	0.42	0.53
3000.0	50.04	51.51	49.35	0.24	0.45	0.53	0.00	0.31	0.46
3500.0	40.79	38.54	40.70	0.21	0.48	0.66	0.03	0.29	0.44
4000.0	43.31	48.25	44.36	0.39	0.55	0.62	0.19	0.37	0.53
4500.0	44.53	47.61	45.53	0.31	0.62	0.75	0.44	0.61	0.68



Typical Performance Data

FREQ. (MHz)	GROUP DELAY		
	(nsec)		
	@-40°C	@+25°C	@+85°C
0.5	2.59	2.47	2.55
1.0	2.58	2.47	2.54
5.0	2.51	2.46	2.48
10.0	2.41	2.43	2.42
11.0	2.42	2.40	2.40
12.0	2.42	2.40	2.38
14.0	2.41	2.41	2.40
16.0	2.41	2.40	2.39
18.0	2.42	2.41	2.39
20.0	2.42	2.41	2.39
22.0	2.43	2.41	2.40
24.0	2.41	2.41	2.40
26.0	2.42	2.41	2.40
28.0	2.43	2.42	2.40
30.0	2.41	2.41	2.40
32.0	2.43	2.42	2.40
40.0	2.41	2.41	2.40
50.0	2.43	2.42	2.40
60.0	2.43	2.42	2.41
70.0	2.44	2.43	2.41
75.0	2.45	2.44	2.42
80.0	2.46	2.46	2.43
90.0	2.49	2.47	2.45
100.0	2.50	2.48	2.46
110.0	2.51	2.50	2.49
120.0	2.53	2.54	2.51
130.0	2.58	2.56	2.55
140.0	2.58	2.57	2.57
150.0	2.62	2.60	2.59
160.0	2.66	2.64	2.63
165.0	2.70	2.67	2.67
170.0	2.71	2.69	2.67
175.0	2.72	2.71	2.70
180.0	2.75	2.72	2.72
185.0	2.78	2.75	2.75
190.0	2.81	2.80	2.78
200.0	2.85	2.86	2.83
210.0	2.92	2.92	2.91
220.0	3.00	3.00	2.99
230.0	3.08	3.08	3.07
240.0	3.17	3.17	3.18
250.0	3.29	3.30	3.29
260.0	3.42	3.40	3.40
270.0	3.56	3.56	3.55
275.0	3.65	3.64	3.63
280.0	3.73	3.72	3.71
290.0	3.88	3.88	3.87
300.0	4.08	4.08	4.08
310.0	4.34	4.34	4.34
320.0	4.64	4.64	4.65
330.0	5.02	5.04	5.05
340.0	5.53	5.54	5.58
350.0	6.19	6.24	6.28
360.0	7.09	7.14	7.22
370.0	8.39	8.48	8.62
375.0	9.34	9.50	9.68



P.O. Box 350166, Brooklyn, New York 11235-0003 (718) 934-4500 • Fax (718) 332-4661 For detailed performance specs & shopping online see Mini-Circuits web site
 The Design Engineers Search Engine Provides ACTUAL Data Instantly From MINI-CIRCUITS At: www.minicircuits.com



IF/RF MICROWAVE COMPONENTS