

*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
1	88.76	89.17	88.45	0.01	0.01	0.01	0.00	0.00	0.00
25	61.58	61.61	61.47	0.01	0.01	0.01	0.01	0.01	0.00
90	50.47	50.38	50.28	0.01	0.01	0.01	0.01	0.01	0.01
120	47.98	47.86	47.73	0.01	0.02	0.02	0.01	0.02	0.02
170	45.01	44.86	44.72	0.01	0.02	0.03	0.01	0.02	0.02
210	43.13	43.03	42.88	0.02	0.03	0.04	0.02	0.03	0.04
300	39.92	39.96	39.91	0.03	0.05	0.05	0.03	0.04	0.05
400	37.39	37.49	37.55	0.04	0.06	0.07	0.04	0.07	0.07
500	35.54	35.61	35.67	0.07	0.09	0.10	0.07	0.09	0.10
520	35.21	35.27	35.34	0.07	0.09	0.10	0.07	0.10	0.11
600	33.99	34.03	34.09	0.09	0.11	0.13	0.09	0.12	0.13
700	32.66	32.68	32.74	0.12	0.14	0.16	0.12	0.15	0.17
800	31.45	31.46	31.54	0.14	0.17	0.18	0.14	0.18	0.19
900	30.27	30.29	30.34	0.16	0.19	0.21	0.17	0.21	0.22
950	29.61	29.63	29.66	0.17	0.20	0.22	0.17	0.21	0.23
1000	29.22	29.25	29.27	0.18	0.21	0.23	0.18	0.23	0.24
1280	25.02	25.04	24.96	0.20	0.24	0.27	0.21	0.26	0.28
1400	22.94	22.86	22.76	0.21	0.27	0.29	0.22	0.28	0.30
1520	20.01	19.90	19.78	0.23	0.30	0.33	0.24	0.30	0.34
1600	17.82	17.68	17.54	0.26	0.34	0.38	0.27	0.34	0.38
1700	14.24	14.07	13.93	0.38	0.47	0.53	0.38	0.48	0.54
1770	11.05	10.90	10.79	0.63	0.75	0.82	0.63	0.75	0.83
1810	8.96	8.84	8.74	0.93	1.08	1.18	0.92	1.07	1.16
1880	4.99	4.95	4.90	2.34	2.58	2.75	2.25	2.48	2.64
1900	3.92	3.90	3.88	3.17	3.46	3.67	3.05	3.32	3.52
1920	2.94	2.95	2.95	4.38	4.74	4.99	4.19	4.51	4.74
1960	1.47	1.56	1.61	8.50	9.02	9.42	7.99	8.40	8.73
2000	0.80	0.94	1.02	16.73	17.43	18.16	14.27	14.56	14.90
2020	0.71	0.85	0.94	21.65	21.94	22.44	16.92	16.95	17.10
2050	0.70	0.85	0.94	18.74	18.83	18.69	16.48	16.57	16.48
2150	0.73	0.88	0.98	17.08	17.57	17.60	17.90	18.62	18.71
2180	0.74	0.90	1.00	19.73	20.17	20.31	22.21	23.11	23.32
2200	0.75	0.91	1.02	20.39	20.78	21.07	24.02	24.82	25.37
2250	0.85	1.03	1.15	18.47	19.37	20.05	19.85	21.04	22.05
2290	0.95	1.17	1.32	21.42	22.32	22.04	25.52	31.37	35.52
2320	1.24	1.57	1.82	15.69	14.07	13.03	17.70	15.72	14.54
2350	2.42	2.96	3.35	7.41	6.76	6.33	7.88	7.24	6.82
2390	6.24	6.94	7.46	2.59	2.51	2.44	2.76	2.71	2.67
2430	11.29	11.94	12.46	1.13	1.20	1.23	1.22	1.31	1.34
2500	18.85	19.48	20.08	0.58	0.64	0.67	0.60	0.72	0.79
2550	23.65	24.06	24.57	0.40	0.50	0.55	0.48	0.58	0.64
2625	29.98	30.64	30.89	0.35	0.42	0.49	0.35	0.45	0.51
2675	31.70	32.02	32.26	0.33	0.43	0.48	0.36	0.46	0.52
2975	41.44	42.05	43.17	0.29	0.40	0.46	0.26	0.36	0.43
3000	38.58	38.55	40.39	0.30	0.40	0.48	0.24	0.35	0.43
3100	40.20	40.13	39.99	0.27	0.37	0.43	0.25	0.36	0.43
3175	38.74	38.60	40.70	0.27	0.38	0.48	0.28	0.39	0.47
3375	42.68	42.42	41.63	0.29	0.39	0.44	0.29	0.41	0.49
3525	43.14	42.59	41.88	0.28	0.38	0.43	0.31	0.41	0.47
3700	45.82	45.62	44.38	0.28	0.38	0.44	0.29	0.40	0.46
3750	43.11	43.21	42.98	0.29	0.39	0.44	0.30	0.41	0.46
4000	47.03	46.13	44.47	0.28	0.39	0.43	0.31	0.42	0.47
4050	46.98	47.29	46.57	0.27	0.38	0.43	0.31	0.42	0.47
4150	49.16	48.24	47.91	0.27	0.38	0.43	0.30	0.40	0.46
4300	50.52	50.15	52.77	0.26	0.37	0.42	0.30	0.40	0.46
4525	51.74	52.42	51.43	0.28	0.39	0.44	0.29	0.40	0.46
4625	48.98	48.70	49.30	0.31	0.43	0.48	0.28	0.39	0.45
4825	48.29	49.12	55.39	0.35	0.47	0.56	0.30	0.41	0.48
4975	40.83	40.69	39.30	0.44	0.55	0.63	0.31	0.43	0.52
5000	44.19	42.88	42.61	0.53	0.68	0.66	0.36	0.48	0.53



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 Engine Search Engine Provides ACTUAL Data Instantly From MINI-CIRCUITS At: [www.minicircuits.com](http://www.minicircuits.com)

IF/RF MICROWAVE COMPONENTS

## Typical Performance Data

FREQ.  (MHz)	GROUP DELAY		
	(nsec)		
	@-40°C	@+25°C	@+85°C
2050	5.20	5.16	5.12
2060	5.16	5.14	5.09
2070	5.14	5.11	5.07
2080	5.11	5.08	5.03
2090	5.08	5.06	5.01
2100	5.06	5.03	4.99
2110	5.03	5.01	4.96
2120	5.00	4.98	4.94
2130	4.98	4.96	4.92
2140	4.96	4.94	4.90
2150	4.94	4.92	4.88
2160	4.91	4.89	4.86
2170	4.89	4.87	4.84
2180	4.87	4.85	4.82
2190	4.85	4.83	4.80
2200	4.83	4.81	4.78
2210	4.81	4.80	4.76
2220	4.79	4.78	4.74
2230	4.78	4.76	4.73
2240	4.76	4.74	4.71
2250	4.74	4.73	4.70