

*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
1.0	0.02	0.02	0.03	51.59	49.96	48.56	51.59	50.05	48.57
10.0	0.03	0.04	0.06	34.30	33.05	31.93	34.41	33.15	32.05
25.0	0.06	0.07	0.09	26.59	25.71	24.81	26.71	25.87	25.02
30.0	0.07	0.08	0.10	24.94	24.20	23.45	25.07	24.37	23.67
40.0	0.09	0.11	0.13	22.29	21.89	21.45	22.44	22.09	21.73
50.0	0.14	0.15	0.17	20.37	20.30	20.24	20.55	20.56	20.57
60.0	0.18	0.21	0.22	19.18	19.47	19.83	19.45	19.82	20.33
65.0	0.21	0.23	0.26	19.03	19.49	20.15	19.35	19.94	20.73
70.0	0.25	0.28	0.30	19.41	20.13	21.11	19.77	20.65	21.86
75.0	0.31	0.34	0.37	20.71	21.80	23.36	21.21	22.58	24.48
80.0	0.39	0.45	0.50	24.36	26.36	29.57	25.24	27.89	32.38
84.0	0.54	0.61	0.69	33.55	36.98	35.23	44.25	41.01	31.61
85.0	0.59	0.67	0.76	33.72	32.57	29.64	38.51	31.57	27.18
90.0	1.23	1.40	1.58	15.27	14.92	14.44	14.61	14.00	13.29
95.0	5.07	5.49	5.93	4.94	4.98	4.98	4.17	4.12	4.05
100.0	17.60	18.18	18.79	1.83	1.96	2.07	1.11	1.21	1.30
105.0	38.51	39.37	40.20	1.27	1.37	1.47	0.66	0.76	0.85
110.0	57.08	56.94	57.17	1.01	1.11	1.19	0.52	0.61	0.69
110.3	57.70	57.25	57.53	1.01	1.11	1.18	0.51	0.60	0.68
112.0	63.50	62.14	61.97	0.94	1.03	1.11	0.48	0.57	0.64
114.0	59.37	59.00	59.08	0.89	0.97	1.05	0.46	0.55	0.62
116.0	57.55	57.28	57.03	0.84	0.92	1.00	0.45	0.54	0.61
118.0	54.25	53.12	52.51	0.80	0.88	0.96	0.55	0.66	0.72
120.0	52.09	52.58	53.02	0.77	0.85	0.93	0.52	0.59	0.65
122.0	58.95	59.15	59.84	0.75	0.84	0.91	0.47	0.54	0.61
123.0	63.22	63.85	63.87	0.76	0.84	0.92	0.46	0.53	0.60
124.0	64.46	61.77	60.27	0.77	0.87	0.95	0.46	0.53	0.60
125.0	57.70	56.79	56.29	0.83	0.92	1.01	0.46	0.54	0.60
126.0	53.71	53.38	53.48	0.95	1.03	1.11	0.47	0.54	0.61
127.0	53.47	54.23	55.15	1.01	1.06	1.10	0.48	0.55	0.61
128.0	58.80	59.33	60.93	0.83	0.90	0.96	0.50	0.57	0.63
129.0	66.87	70.78	72.95	0.72	0.81	0.88	0.51	0.58	0.64
130.0	69.94	70.14	69.19	0.68	0.77	0.84	0.52	0.59	0.66
131.0	63.66	62.39	61.83	0.67	0.76	0.84	0.54	0.61	0.67
132.0	58.79	58.44	58.12	0.66	0.75	0.83	0.56	0.64	0.70
133.0	55.46	54.79	54.57	0.67	0.75	0.84	0.60	0.67	0.73
134.0	52.76	52.20	52.08	0.67	0.76	0.84	0.63	0.70	0.76
135.0	50.62	50.25	50.11	0.68	0.76	0.85	0.66	0.74	0.79
136.0	49.07	48.71	48.61	0.70	0.78	0.86	0.71	0.78	0.84
137.0	47.89	47.78	47.66	0.71	0.80	0.88	0.76	0.83	0.89
138.0	47.40	47.37	47.29	0.72	0.81	0.90	0.82	0.89	0.96
139.0	47.39	47.33	47.07	0.75	0.84	0.93	0.88	0.95	1.02
139.8	47.29	46.92	46.44	0.76	0.86	0.94	0.94	1.01	1.08
140.0	47.13	46.68	45.97	0.77	0.87	0.95	0.96	1.04	1.11
150.0	15.07	14.81	14.48	1.78	1.93	2.10	3.22	3.41	3.66
160.0	3.04	3.08	3.12	8.94	9.05	9.19	13.47	13.77	14.11
170.0	1.35	1.40	1.45	16.21	15.94	15.66	15.43	15.25	14.95
180.0	0.85	0.89	0.93	25.94	24.93	23.99	19.04	18.81	18.41
190.0	0.64	0.67	0.70	30.37	32.63	34.25	20.61	20.85	20.77
192.0	0.61	0.64	0.67	28.26	30.27	32.14	20.55	20.89	20.92
194.0	0.59	0.62	0.65	26.62	28.34	30.03	20.42	20.85	20.99
196.0	0.58	0.60	0.63	25.29	26.80	28.30	20.25	20.74	20.98
198.0	0.56	0.58	0.61	24.22	25.56	26.90	20.04	20.58	20.90
200.0	0.54	0.56	0.59	23.35	24.55	25.78	19.82	20.41	20.79
250.0	0.34	0.36	0.39	18.37	18.37	18.73	17.89	17.89	18.20
400.0	0.20	0.25	0.29	19.43	18.33	17.59	19.30	18.22	17.54
500.0	0.19	0.24	0.29	19.31	18.36	17.25	19.20	18.27	17.18
600.0	0.18	0.23	0.28	18.86	18.12	17.01	18.76	18.02	16.92
800.0	0.16	0.22	0.28	18.01	17.25	16.20	17.83	17.11	16.12
1000.0	0.28	0.37	0.44	16.81	16.17	15.55	16.56	16.01	15.45

## Typical Performance Data

FREQ.	GROUP DELAY-1			FREQ.	GROUP DELAY-2		
(MHz)	(ns)			(MHz)	(ns)		
	@-40°C	@+25°C	@+85°C		@-40°C	@+25°C	@+85°C
1.0	2.28	2.32	2.24	196.0	3.71	3.68	3.64
3.0	2.27	2.31	2.25	198.0	3.50	3.47	3.43
5.0	2.28	2.30	2.28	200.0	3.32	3.29	3.26
7.0	2.29	2.29	2.29	204.0	2.96	2.95	2.91
9.0	2.24	2.26	2.22	206.0	2.82	2.79	2.75
10.0	2.27	2.26	2.26	208.0	2.68	2.66	2.64
11.0	2.30	2.29	2.27	210.0	2.56	2.54	2.51
12.0	2.29	2.26	2.27	212.0	2.44	2.42	2.39
13.0	2.29	2.29	2.26	214.0	2.35	2.32	2.30
14.0	2.31	2.29	2.28	216.0	2.23	2.21	2.20
15.0	2.33	2.32	2.31	218.0	2.16	2.13	2.12
16.0	2.33	2.32	2.30	220.0	2.06	2.04	2.02
17.0	2.36	2.34	2.34	222.0	1.98	1.97	1.94
18.0	2.38	2.37	2.35	224.0	1.93	1.92	1.88
19.0	2.38	2.36	2.35	226.0	1.86	1.84	1.81
20.0	2.39	2.38	2.38	228.0	1.79	1.77	1.75
21.0	2.41	2.41	2.40	230.0	1.73	1.72	1.69
22.0	2.46	2.43	2.42	232.0	1.68	1.66	1.65
23.0	2.46	2.45	2.43	234.0	1.64	1.61	1.57
24.0	2.47	2.44	2.44	236.0	1.58	1.57	1.54
25.0	2.51	2.50	2.49	238.0	1.55	1.52	1.50
26.0	2.53	2.52	2.51	240.0	1.48	1.45	1.44
27.0	2.55	2.53	2.53	242.0	1.43	1.41	1.40
28.0	2.60	2.60	2.58	244.0	1.40	1.38	1.34
29.0	2.62	2.61	2.59	246.0	1.37	1.33	1.32
30.0	2.67	2.66	2.63	248.0	1.29	1.27	1.26
31.0	2.68	2.67	2.66	250.0	1.27	1.26	1.23
32.0	2.73	2.72	2.70	252.0	1.21	1.20	1.19
33.0	2.78	2.76	2.75	254.0	1.19	1.17	1.16
34.0	2.79	2.77	2.76	256.0	1.17	1.14	1.14
35.0	2.84	2.83	2.81	258.0	1.14	1.11	1.09
36.0	2.87	2.87	2.84	260.0	1.09	1.07	1.06
37.0	2.92	2.89	2.88	262.0	1.06	1.06	1.04
38.0	2.95	2.95	2.93	264.0	1.06	1.04	1.02
39.0	3.01	2.98	2.98	266.0	1.04	1.02	0.99
40.0	3.06	3.05	3.04	268.0	1.02	0.98	0.96
41.0	3.11	3.09	3.09	270.0	0.98	0.96	0.94
42.0	3.16	3.16	3.13	272.0	0.96	0.96	0.93
43.0	3.22	3.21	3.19	274.0	0.97	0.93	0.91
44.0	3.30	3.27	3.27	276.0	0.95	0.92	0.90
45.0	3.36	3.35	3.33	278.0	0.92	0.91	0.88
46.0	3.40	3.40	3.39	280.0	0.90	0.88	0.86
47.0	3.50	3.48	3.47	282.0	0.90	0.88	0.86
48.0	3.55	3.55	3.53	284.0	0.88	0.86	0.84
49.0	3.63	3.62	3.62	286.0	0.86	0.84	0.81
50.0	3.72	3.72	3.71	288.0	0.85	0.84	0.80
51.0	3.78	3.78	3.77	290.0	0.82	0.81	0.80
52.0	3.89	3.88	3.89	292.0	0.82	0.79	0.76
53.0	3.97	3.97	3.97	294.0	0.79	0.78	0.76
55.0	4.20	4.17	4.18	296.0	0.79	0.76	0.75
60.0	4.84	4.84	4.86	298.0	0.76	0.74	0.72
65.0	5.67	5.70	5.72	300.0	0.74	0.71	0.71
70.0	6.87	6.91	6.95	500.0	0.29	0.28	0.26
75.0	8.66	8.70	8.77	700.0	0.24	0.22	0.21
80.0	11.51	11.60	11.70	800.0	0.22	0.21	0.19
84.0	15.33	15.49	15.64	1000.0	0.18	0.16	0.15