Typical Performance Data

NOTE: Use PDF Bookmarks to view DATA at required conditions

Definitions:
Input Return Loss = S11 (dB)
Insertion Loss = -S21 (dB)
Output Return Loss = S22 (dB)

TEST CONDITION: Temperature = +25°C

FREQ	Insertion Loss	Input Return Loss	Output Return Loss	Group Delay
(GHz)	(dB)	(dB)	(dB)	(nsec)
0.01	0.78	-27.8	-27.6	0.32
0.10	0.78	-27.1	-27.1	0.32
0.20	0.78	-26.2	-26.3	0.32
0.40	0.80	-24.1	-24.2	0.32
0.60	0.84	-22.3	-22.4	0.32
0.80	0.89	-21.1	-21.2	0.32
1.00	0.96	-20.4	-20.5	0.32
1.25	1.04	-20.3	-20.4	0.32
1.50	1.14	-20.9	-21.0	0.33
1.75	1.26	-22.1	-22.1	0.34
2.00	1.42	-23.7	-23.7	0.35
2.10	1.49	-24.4	-24.4	0.35
2.20	1.57	-25.2	-25.1	0.36
2.30	1.67	-25.9	-25.9	0.37
2.40	1.78	-26.4	-26.7	0.38
2.50	1.91	-26.9	-27.7	0.39
2.60	2.07	-27.3	-28.8	0.40
2.70	2.26	-27.3	-30.2	0.41
2.80	2.49	-27.0	-31.9	0.43
2.90	2.78	-26.3	-34.1	0.45
3.00	3.15	-25.4	-36.1	0.47
3.10	3.63	-24.1	-34.9	0.50
3.20	4.28	-22.4	-30.4	0.54
3.50	8.40	-17.0	-18.6	0.63
4.00	26.31	-19.8	-14.4	-0.23
4.50	25.05	-26.6	-21.4	0.35
5.00	28.59	-26.7	-26.3	0.11
5.50	30.69	-20.0	-24.6	0.08
6.00	29.89	-17.7	-19.1	0.22
6.50	30.51	-17.0	-16.6	0.27
7.00	33.45	-16.8	-15.3	0.25
7.50	38.40	-16.9	-14.8	0.19
8.00	45.24	-17.2	-15.0	0.05
8.50	57.57	-17.9	-16.0	-0.90
9.00	44.47	-19.0	-18.1	0.17
9.50	37.20	-19.4	-21.1	0.22
10.00	32.99	-18.6	-22.8	0.24
10.50	30.25	-17.0	-20.2	0.25
11.00	28.43	-15.5	-17.2	0.26
11.50	27.16	-14.6	-15.4	0.26
12.00	26.24	-14.4	-14.6	0.25
12.50	25.56	-14.8	-14.6	0.25
13.00	25.06	-15.8	-15.4	0.25
13.50	24.72	-17.4	-16.7	0.25
14.00	24.56	-18.8	-18.0	0.25
14.50	24.58	-18.5	-17.9	0.25
15.00	24.79	-16.5	-16.1	0.25
15.50	25.12	-14.4	-13.9	0.25
16.00	25.55	-12.7	-12.3	0.25
16.50	26.05	-11.3	-11.1	0.24
17.00	26.58	-10.4	-10.3	0.24
17.50	27.13	-9.6	-9.8	0.25
18.00	27.73	-8.9	-9.3	0.25
18.50	28.42	-8.3	-8.9	0.25
19.00	29.17	-7.6	-8.2	0.25
19.50	30.03	-6.9	-7.5	0.25
20.00	30.91	-6.3	-6.8	0.25
20.50	31.73	-5.7	-6.1	0.25
21.00	32.48	-5.2	-5.5	0.26
21.50	33.24	-4.8	-5.1	0.29
22.00	34.49	-4.7	-4.9	0.33
22.50	38.68	-5.3	-4.8	0.30
23.00	45.22	-6.2	-4.8	0.08
23.50	46.27	-6.6	-4.9	0.19
24.00	46.93	-7.0	-5.5	0.25
24.50	49.14	-7.3	-6.7	0.12
25.00	49.03	-7.4	-7.5	0.20
25.50	48.34	-7.3	-7.7	0.21
26.00	48.07	-7.3	-7.6	0.28
26.50	49.00	-7.0	-7.3	0.24

Typical Performance Data

NOTE: Use PDF Bookmarks to view DATA at required conditions

Definitions:
Input Return Loss = S11 (dB)
Insertion Loss = -S21 (dB)
Output Return Loss = S22 (dB)

TEST CONDITION: Temperature = -45°C

FREQ	Insertion Loss	Input Return Loss	Output Return Loss	Group Delay
(GHz)	(dB)	(dB)	(dB)	(nsec)
0.01	0.65	-31.1	-31.1	0.31
0.10	0.65	-30.1	-29.8	0.31
0.20	0.65	-28.7	-28.3	0.32
0.40	0.68	-25.8	-26.0	0.32
0.60	0.71	-23.6	-23.5	0.32
0.80	0.77	-21.7	-21.9	0.32
1.00	0.83	-20.8	-20.9	0.32
1.25	0.91	-20.3	-20.4	0.32
1.50	1.00	-20.9	-20.9	0.33
1.75	1.10	-22.1	-22.0	0.34
2.00	1.23	-24.2	-23.9	0.35
2.10	1.29	-25.1	-24.7	0.35
2.20	1.36	-25.9	-25.7	0.36
2.30	1.45	-26.7	-26.6	0.37
2.40	1.54	-27.2	-27.5	0.38
2.50	1.66	-27.6	-28.4	0.39
2.60	1.79	-27.7	-29.6	0.40
2.70	1.95	-27.5	-30.9	0.41
2.80	2.15	-26.9	-32.3	0.43
2.90	2.39	-26.1	-34.5	0.45
3.00	2.70	-24.9	-37.6	0.47
3.10	3.10	-23.5	-40.4	0.50
3.20	3.65	-21.9	-34.3	0.54
3.50	7.21	-16.2	-18.3	0.66
4.00	26.73	-18.9	-13.2	-0.50
4.50	24.92	-26.4	-20.7	0.40
5.00	28.34	-26.0	-25.5	0.13
5.50	30.96	-19.0	-23.5	0.07
6.00	29.99	-16.9	-18.0	0.21
6.50	30.30	-16.7	-16.0	0.27
7.00	33.05	-16.7	-15.1	0.26
7.50	37.92	-16.6	-14.5	0.21
8.00	44.74	-17.1	-14.6	0.12
8.50	58.78	-18.2	-15.7	-0.63
9.00	45.82	-19.3	-18.1	0.15
9.50	37.80	-19.3	-21.2	0.25
10.00	33.32	-18.3	-22.4	0.27
10.50	30.45	-16.8	-19.9	0.26
11.00	28.53	-15.6	-17.2	0.26
11.50	27.18	-14.8	-15.5	0.25
12.00	26.20	-14.7	-14.9	0.25
12.50	25.50	-15.2	-15.1	0.25
13.00	24.99	-16.0	-15.6	0.25
13.50	24.64	-17.0	-16.2	0.25
14.00	24.46	-18.2	-16.9	0.25
14.50	24.45	-18.1	-17.2	0.26
15.00	24.63	-16.1	-15.8	0.25
15.50	24.96	-13.8	-13.4	0.25
16.00	25.41	-12.1	-11.6	0.25
16.50	25.96	-11.1	-10.7	0.24
17.00	26.33	-10.3	-10.3	0.25
17.50	26.83	-9.7	-10.0	0.25
18.00	27.42	-9.0	-9.4	0.25
18.50	28.11	-8.3	-8.7	0.25
19.00	28.88	-7.6	-8.0	0.25
19.50	29.70	-7.0	-7.5	0.25
20.00	30.54	-6.4	-6.8	0.25
20.50	31.39	-5.7	-6.0	0.25
21.00	32.15	-5.1	-5.2	0.26
21.50	32.80	-4.6	-4.6	0.27
22.00	33.47	-4.3	-4.4	0.33
22.50	36.18	-4.7	-4.4	0.38
23.00	43.60	-5.9	-4.5	0.15
23.50	46.71	-6.5	-4.6	0.05
24.00	46.34	-6.8	-4.9	0.23
24.50	48.72	-6.9	-5.9	0.15
25.00	49.49	-6.9	-6.7	0.11
25.50	48.84	-6.7	-7.0	0.25
26.00	47.94	-6.9	-7.0	0.31
26.50	48.90	-6.7	-6.9	0.25

Typical Performance Data

NOTE: Use PDF Bookmarks to view DATA at required conditions

Definitions:
Input Return Loss = S11 (dB)
Insertion Loss = -S21 (dB)
Output Return Loss = S22 (dB)

TEST CONDITION: Temperature = +85°C

FREQ	Insertion Loss	Input Return Loss	Output Return Loss	Group Delay
(GHz)	(dB)	(dB)	(dB)	(nsec)
0.01	0.90	-25.4	-25.4	0.32
0.10	0.90	-25.0	-25.2	0.32
0.20	0.90	-24.4	-24.6	0.32
0.40	0.92	-22.9	-23.0	0.32
0.60	0.96	-21.5	-21.6	0.32
0.80	1.02	-20.5	-20.6	0.32
1.00	1.08	-20.0	-20.1	0.32
1.25	1.18	-20.0	-20.1	0.32
1.50	1.29	-20.6	-20.7	0.33
1.75	1.42	-21.7	-21.8	0.34
2.00	1.59	-23.2	-23.2	0.35
2.10	1.67	-23.9	-23.8	0.36
2.20	1.77	-24.5	-24.5	0.36
2.30	1.88	-25.2	-25.2	0.37
2.40	2.01	-25.7	-26.0	0.38
2.50	2.16	-26.3	-26.9	0.39
2.60	2.34	-26.7	-28.0	0.40
2.70	2.55	-26.9	-29.3	0.42
2.80	2.81	-26.8	-31.0	0.43
2.90	3.14	-26.3	-32.8	0.45
3.00	3.56	-25.4	-33.8	0.48
3.10	4.10	-24.1	-32.2	0.50
3.20	4.84	-22.5	-28.8	0.54
3.50	9.40	-17.4	-18.8	0.60
4.00	26.20	-20.6	-15.3	-0.15
4.50	25.18	-27.1	-22.1	0.32
5.00	28.76	-27.0	-27.0	0.10
5.50	30.50	-20.6	-25.3	0.09
6.00	29.83	-18.3	-19.8	0.22
6.50	30.71	-17.5	-17.0	0.27
7.00	33.78	-17.1	-15.7	0.24
7.50	38.78	-17.1	-15.2	0.18
8.00	45.67	-17.2	-15.2	0.04
8.50	55.13	-17.8	-16.0	-0.81
9.00	43.24	-18.9	-18.1	0.15
9.50	36.67	-19.6	-21.7	0.22
10.00	32.71	-18.6	-23.2	0.25
10.50	30.11	-16.8	-19.8	0.25
11.00	28.38	-15.3	-17.0	0.26
11.50	27.15	-14.4	-15.3	0.25
12.00	26.29	-14.0	-14.3	0.25
12.50	25.65	-14.3	-14.2	0.25
13.00	25.17	-15.2	-14.8	0.25
13.50	24.82	-16.8	-16.2	0.25
14.00	24.67	-18.5	-17.7	0.26
14.50	24.70	-18.8	-18.0	0.25
15.00	24.89	-17.2	-16.6	0.25
15.50	25.21	-15.1	-14.6	0.25
16.00	25.64	-13.2	-12.8	0.25
16.50	26.26	-11.7	-11.4	0.25
17.00	26.71	-10.5	-10.5	0.25
17.50	27.29	-9.6	-9.9	0.24
18.00	27.93	-8.9	-9.4	0.25
18.50	28.67	-8.1	-8.8	0.25
19.00	29.50	-7.3	-8.0	0.25
19.50	30.40	-6.6	-7.3	0.25
20.00	31.30	-6.0	-6.6	0.25
20.50	32.10	-5.6	-6.0	0.25
21.00	32.91	-5.1	-5.5	0.27
21.50	33.86	-4.8	-5.1	0.30
22.00	35.88	-4.8	-4.8	0.33
22.50	41.07	-5.6	-4.8	0.23
23.00	45.58	-6.3	-5.0	0.08
23.50	45.93	-6.9	-5.4	0.20
24.00	47.28	-7.4	-6.3	0.22
24.50	48.96	-7.7	-7.3	0.14
25.00	48.38	-7.8	-7.9	0.23
25.50	48.03	-7.7	-8.0	0.23
26.00	48.46	-7.4	-7.8	0.26
26.50	49.32	-7.0	-7.3	0.22

Typical Performance Data

NOTE: Use PDF Bookmarks to view DATA at required conditions

Definitions:
Input Return Loss = S11 (dB)
Insertion Loss = -S21 (dB)
Output Return Loss = S22 (dB)

TEST CONDITION: Temperature = +105°C

FREQ	Insertion Loss	Input Return Loss	Output Return Loss	Group Delay
(GHz)	(dB)	(dB)	(dB)	(nsec)
0.01	0.94	-24.8	-24.9	0.32
0.10	0.93	-24.5	-24.6	0.32
0.20	0.93	-23.8	-24.2	0.32
0.40	0.94	-22.6	-22.6	0.32
0.60	0.98	-21.2	-21.3	0.32
0.80	1.04	-20.2	-20.3	0.32
1.00	1.11	-19.9	-20.0	0.32
1.25	1.20	-19.9	-20.0	0.32
1.50	1.31	-20.5	-20.6	0.33
1.75	1.45	-21.5	-21.7	0.34
2.00	1.63	-23.0	-23.1	0.35
2.10	1.71	-23.7	-23.7	0.36
2.20	1.81	-24.4	-24.4	0.36
2.30	1.92	-25.0	-25.1	0.37
2.40	2.05	-25.5	-25.9	0.38
2.50	2.21	-26.1	-26.8	0.39
2.60	2.39	-26.6	-27.9	0.40
2.70	2.61	-26.9	-29.2	0.42
2.80	2.89	-26.9	-30.8	0.43
2.90	3.22	-26.5	-32.5	0.45
3.00	3.66	-25.6	-33.2	0.48
3.10	4.23	-24.3	-31.7	0.50
3.20	4.99	-22.6	-28.5	0.53
3.50	9.68	-17.6	-18.9	0.59
4.00	26.17	-20.9	-15.6	-0.14
4.50	25.21	-27.3	-22.2	0.31
5.00	28.75	-27.3	-27.2	0.10
5.50	30.40	-20.7	-25.5	0.10
6.00	29.77	-18.5	-20.0	0.23
6.50	30.72	-17.6	-17.2	0.27
7.00	33.85	-17.3	-15.8	0.24
7.50	38.86	-17.1	-15.2	0.19
8.00	45.74	-17.2	-15.2	0.05
8.50	54.47	-17.7	-16.0	-0.76
9.00	42.85	-18.9	-18.1	0.14
9.50	36.45	-19.5	-21.8	0.22
10.00	32.57	-18.5	-23.3	0.25
10.50	30.03	-16.7	-19.8	0.25
11.00	28.31	-15.3	-16.9	0.26
11.50	27.11	-14.3	-15.1	0.26
12.00	26.26	-13.9	-14.1	0.25
12.50	25.62	-14.2	-14.0	0.25
13.00	25.13	-15.2	-14.7	0.25
13.50	24.80	-16.9	-16.1	0.25
14.00	24.65	-18.7	-17.8	0.25
14.50	24.67	-19.0	-18.2	0.26
15.00	24.86	-17.5	-17.0	0.25
15.50	25.18	-15.3	-14.9	0.25
16.00	25.62	-13.2	-13.0	0.25
16.50	26.26	-11.6	-11.5	0.25
17.00	26.72	-10.4	-10.5	0.24
17.50	27.29	-9.6	-9.9	0.24
18.00	27.94	-8.8	-9.4	0.25
18.50	28.71	-8.0	-8.7	0.25
19.00	29.57	-7.2	-7.9	0.25
19.50	30.47	-6.5	-7.1	0.25
20.00	31.37	-6.0	-6.5	0.25
20.50	32.16	-5.5	-6.0	0.25
21.00	32.96	-5.1	-5.5	0.27
21.50	34.01	-4.8	-5.1	0.30
22.00	36.34	-4.9	-4.8	0.33
22.50	41.64	-5.6	-4.8	0.18
23.00	45.51	-6.4	-5.1	0.08
23.50	45.73	-7.0	-5.5	0.21
24.00	47.44	-7.6	-6.4	0.19
24.50	48.52	-7.8	-7.4	0.12
25.00	48.19	-7.8	-8.0	0.27
25.50	47.95	-7.8	-8.1	0.21
26.00	48.40	-7.5	-7.8	0.23
26.50	49.26	-6.9	-7.3	0.25