

Typical Performance Data

Test Conditions: @ Temperature = 0°C, Pin = 8 dBm.

Freq. (GHz)	Insertion Loss (dB)							
	COM-J1	COM-J2	COM-J3	COM-J4	COM-J5	COM-J6	COM-J7	COM-J8
0.10	-2.08	-2.07	-2.07	-2.08	-2.07	-2.06	-2.09	-2.10
0.25	-1.46	-1.45	-1.44	-1.46	-1.45	-1.44	-1.45	-1.47
0.50	-1.43	-1.42	-1.41	-1.44	-1.44	-1.41	-1.43	-1.45
1.00	-1.54	-1.53	-1.52	-1.55	-1.55	-1.53	-1.55	-1.56
1.50	-1.60	-1.59	-1.58	-1.61	-1.60	-1.59	-1.61	-1.61
2.00	-1.70	-1.73	-1.71	-1.71	-1.70	-1.72	-1.75	-1.72
2.50	-1.79	-1.82	-1.81	-1.79	-1.79	-1.81	-1.84	-1.81
3.00	-2.08	-1.96	-1.93	-2.07	-2.08	-1.96	-1.98	-2.10
3.50	-2.21	-2.13	-2.10	-2.22	-2.21	-2.12	-2.16	-2.23
4.00	-2.26	-2.22	-2.20	-2.28	-2.28	-2.22	-2.27	-2.29
4.50	-2.39	-2.27	-2.25	-2.42	-2.40	-2.26	-2.30	-2.43
5.00	-2.42	-2.43	-2.39	-2.44	-2.42	-2.45	-2.50	-2.46
5.50	-2.45	-2.58	-2.58	-2.46	-2.43	-2.62	-2.73	-2.47
6.00	-2.65	-2.63	-2.61	-2.64	-2.67	-2.65	-2.71	-2.70
6.50	-2.68	-2.63	-2.62	-2.70	-2.70	-2.65	-2.69	-2.69
7.00	-2.71	-2.74	-2.71	-2.70	-2.75	-2.74	-2.80	-2.70
7.50	-2.81	-2.82	-2.78	-2.84	-2.85	-2.82	-2.86	-2.81
8.00	-2.83	-2.79	-2.76	-2.83	-2.89	-2.76	-2.81	-2.86
8.50	-2.88	-2.82	-2.80	-2.88	-2.88	-2.82	-2.88	-2.90
9.25	-3.29	-3.07	-3.03	-3.21	-3.29	-3.06	-3.09	-3.26
10.00	-3.60	-3.07	-3.06	-3.54	-3.64	-3.10	-3.13	-3.53
10.50	-3.49	-3.09	-3.09	-3.44	-3.49	-3.13	-3.15	-3.47
11.00	-3.65	-3.35	-3.27	-3.67	-3.69	-3.33	-3.35	-3.68
11.50	-3.69	-3.20	-3.22	-3.66	-3.70	-3.25	-3.28	-3.71
12.00	-3.87	-3.41	-3.35	-3.87	-3.95	-3.39	-3.51	-3.94
12.50	-3.93	-3.65	-3.63	-3.89	-3.91	-3.66	-3.76	-3.89
13.00	-3.91	-3.93	-3.89	-3.76	-3.87	-3.89	-3.92	-3.75
13.50	-3.83	-4.10	-4.09	-3.78	-3.79	-4.02	-3.98	-3.76
14.00	-3.90	-4.07	-4.02	-3.84	-3.85	-4.02	-3.89	-3.83
14.50	-4.06	-4.13	-4.09	-3.98	-4.00	-4.18	-4.02	-4.01
15.00	-4.35	-4.64	-4.53	-4.29	-4.31	-4.66	-4.47	-4.34
15.50	-4.66	-5.27	-5.22	-4.61	-4.64	-5.18	-5.09	-4.71
16.00	-5.15	-5.42	-5.48	-5.05	-4.97	-5.24	-5.24	-4.98
16.50	-5.36	-4.94	-4.90	-5.22	-5.19	-4.84	-4.89	-5.15
17.00	-5.01	-4.57	-4.54	-4.93	-4.92	-4.54	-4.64	-4.89
17.50	-4.95	-4.85	-4.83	-4.80	-4.83	-4.83	-4.97	-4.86
18.00	-5.68	-5.19	-5.35	-5.36	-5.49	-5.17	-5.54	-5.67
18.50	-6.45	-5.52	-6.12	-6.45	-6.28	-5.30	-6.21	-6.73
19.00	-6.73	-5.05	-6.80	-6.99	-6.41	-4.92	-5.57	-7.07
19.50	-6.32	-5.85	-5.68	-6.34	-6.02	-5.73	-5.41	-6.16
20.00	-6.42	-7.07	-6.75	-5.69	-5.65	-7.32	-6.72	-5.35

Typical Performance Data

Test Conditions: @ Temperature = 0°C, Pin = 8 dBm.

Freq. (GHz)	Return Loss, Active ports (dB)								
	COM	J1	J2	J3	J4	J5	J6	J7	J8
0.10	-9.94	-8.42	-8.34	-8.34	-8.34	-8.43	-8.38	-8.36	-8.33
0.25	-16.93	-14.76	-14.78	-14.72	-14.75	-14.95	-14.82	-14.79	-14.72
0.50	-22.77	-18.41	-17.98	-18.04	-18.26	-18.44	-18.19	-17.97	-18.05
1.00	-25.76	-24.61	-22.91	-22.72	-24.70	-25.15	-22.98	-22.11	-24.15
1.50	-22.68	-30.88	-24.65	-25.13	-30.53	-31.76	-25.52	-23.98	-28.71
2.00	-26.40	-35.89	-22.09	-22.65	-35.37	-36.87	-22.65	-21.03	-30.02
2.50	-23.26	-23.50	-26.96	-26.20	-25.15	-23.99	-27.51	-23.56	-24.23
3.00	-15.97	-16.49	-23.85	-25.84	-16.66	-16.36	-23.98	-22.37	-16.29
3.50	-16.95	-16.98	-17.57	-18.23	-16.62	-16.93	-18.29	-16.85	-16.85
4.00	-37.01	-18.21	-18.51	-18.75	-17.53	-17.15	-18.94	-16.75	-17.07
4.50	-19.84	-16.19	-17.85	-18.12	-15.19	-15.36	-18.05	-16.53	-14.74
5.00	-21.76	-19.59	-14.13	-14.11	-18.15	-19.79	-13.62	-12.83	-17.67
5.50	-24.70	-20.30	-13.54	-13.05	-20.99	-22.86	-12.78	-11.98	-20.34
6.00	-15.32	-15.27	-15.95	-15.32	-15.19	-15.13	-15.44	-13.87	-15.06
6.50	-15.53	-16.75	-16.27	-15.61	-16.17	-15.30	-16.23	-14.81	-15.93
7.00	-24.58	-18.72	-14.69	-14.84	-16.88	-16.06	-15.01	-14.18	-17.38
7.50	-20.19	-16.80	-15.93	-16.41	-15.39	-14.96	-16.49	-15.58	-16.04
8.00	-20.21	-19.64	-20.70	-20.98	-18.61	-19.19	-22.36	-20.56	-19.74
8.50	-28.57	-20.69	-22.77	-23.55	-21.07	-20.63	-24.07	-23.23	-22.70
9.25	-16.17	-13.30	-19.41	-20.42	-14.01	-12.91	-18.95	-18.70	-13.50
10.00	-12.21	-12.14	-24.04	-23.33	-12.34	-11.46	-24.26	-21.12	-11.88
10.50	-18.66	-16.69	-26.29	-26.90	-16.21	-16.35	-25.81	-29.71	-16.86
11.00	-16.09	-18.95	-22.85	-22.87	-17.90	-18.86	-24.02	-24.49	-19.55
11.50	-14.30	-15.04	-25.83	-28.36	-14.66	-14.65	-26.42	-25.57	-14.74
12.00	-13.75	-12.87	-20.21	-21.95	-12.87	-11.55	-20.36	-18.15	-12.39
12.50	-13.97	-13.31	-16.28	-16.61	-13.25	-13.12	-15.53	-13.88	-13.35
13.00	-14.76	-14.42	-13.01	-12.50	-16.95	-15.07	-12.43	-11.97	-16.82
13.50	-22.09	-23.90	-12.07	-11.71	-23.16	-20.96	-12.66	-13.32	-28.83
14.00	-38.44	-22.63	-14.89	-14.63	-34.76	-26.68	-14.82	-17.59	-26.27
14.50	-33.05	-26.68	-16.15	-17.27	-27.81	-26.93	-14.54	-18.02	-27.72
15.00	-40.90	-29.38	-12.78	-13.80	-30.14	-24.14	-11.90	-14.25	-23.31
15.50	-26.43	-22.07	-10.23	-9.76	-19.36	-16.85	-10.26	-11.15	-18.15
16.00	-14.10	-11.70	-10.06	-9.21	-11.65	-14.11	-11.18	-10.99	-13.03
16.50	-10.21	-10.61	-14.12	-13.69	-11.27	-10.96	-15.16	-14.78	-11.76
17.00	-12.47	-15.36	-19.26	-19.67	-14.73	-13.42	-18.28	-18.11	-15.78
17.50	-17.03	-14.82	-13.46	-12.91	-15.83	-12.18	-11.59	-11.53	-13.96
18.00	-14.02	-9.71	-10.54	-9.24	-10.13	-9.10	-9.57	-8.39	-8.30
18.50	-10.73	-8.61	-10.52	-8.30	-7.12	-7.46	-10.27	-7.98	-6.31
19.00	-7.53	-10.79	-15.58	-9.68	-6.14	-8.03	-15.72	-10.47	-6.72
19.50	-8.34	-13.31	-13.59	-17.79	-10.16	-16.04	-10.83	-14.04	-12.95
20.00	-8.91	-16.28	-9.32	-8.84	-16.94	-13.15	-8.16	-7.44	-21.70

Typical Performance Data

Test Conditions: @ Temperature = 0°C, Pin = 8 dBm.

Freq. (GHz)	Return Loss, Internally terminated ports (dB)							
	J1	J2	J3	J4	J5	J6	J7	J8
0.10	-21.55	-21.57	-21.64	-21.70	-21.95	-21.96	-21.96	-21.77
0.25	-21.80	-21.78	-21.85	-21.91	-22.18	-22.19	-22.15	-21.88
0.50	-21.91	-21.81	-22.04	-21.95	-22.20	-22.37	-22.45	-22.09
1.00	-22.29	-22.28	-22.15	-22.15	-22.44	-23.24	-23.08	-22.63
1.50	-22.33	-22.18	-22.24	-21.71	-22.26	-23.50	-23.28	-21.87
2.00	-21.38	-21.11	-21.14	-20.91	-21.34	-22.60	-22.72	-20.77
2.50	-18.93	-19.83	-19.88	-19.56	-19.50	-20.62	-20.21	-19.01
3.00	-16.71	-17.31	-17.35	-16.77	-17.19	-17.19	-17.00	-16.52
3.50	-14.07	-14.64	-14.78	-14.45	-15.10	-14.61	-14.48	-14.08
4.00	-12.56	-12.78	-12.66	-12.42	-13.13	-12.25	-12.42	-12.36
4.50	-11.15	-11.20	-11.01	-11.01	-11.47	-10.51	-11.02	-11.19
5.00	-10.28	-10.21	-9.81	-10.29	-10.28	-9.40	-9.95	-10.21
5.50	-9.63	-9.40	-9.10	-9.58	-9.50	-8.76	-9.35	-9.67
6.00	-9.21	-9.04	-8.76	-8.82	-9.25	-8.32	-9.10	-9.20
6.50	-9.07	-8.84	-8.65	-8.39	-9.12	-8.34	-8.86	-9.00
7.00	-9.03	-9.20	-8.69	-8.58	-9.29	-8.68	-9.11	-9.25
7.50	-9.30	-9.67	-9.32	-9.17	-9.63	-9.20	-9.64	-9.54
8.00	-9.82	-9.98	-9.91	-9.80	-10.13	-9.72	-10.19	-9.98
8.50	-10.56	-10.39	-10.69	-10.46	-11.01	-10.34	-10.68	-10.00
9.25	-11.88	-11.61	-11.69	-11.45	-12.66	-11.71	-12.20	-11.29
10.00	-14.07	-13.59	-13.27	-14.34	-15.12	-13.94	-14.70	-13.92
10.50	-13.97	-13.77	-13.21	-14.61	-14.86	-13.67	-14.03	-14.60
11.00	-12.33	-12.12	-12.11	-12.59	-13.19	-11.97	-11.61	-12.83
11.50	-10.99	-11.37	-10.96	-11.04	-12.35	-10.97	-10.56	-11.58
12.00	-11.03	-11.16	-10.79	-10.12	-11.93	-10.20	-10.29	-11.20
12.50	-11.45	-11.57	-10.96	-10.98	-11.93	-9.94	-10.88	-11.62
13.00	-11.80	-11.52	-11.54	-11.59	-11.89	-10.04	-11.26	-11.12
13.50	-11.13	-10.71	-11.77	-11.16	-11.69	-10.00	-10.82	-10.53
14.00	-11.05	-10.53	-12.01	-10.58	-11.99	-10.67	-10.69	-10.19
14.50	-11.36	-11.10	-11.38	-10.09	-11.99	-11.28	-11.05	-11.10
15.00	-11.23	-11.89	-10.49	-10.53	-11.41	-11.51	-11.52	-12.08
15.50	-11.05	-11.07	-10.10	-11.82	-10.90	-11.03	-11.54	-11.76
16.00	-10.65	-9.78	-9.77	-12.39	-10.67	-10.43	-10.51	-10.32
16.50	-10.58	-9.32	-10.01	-11.29	-11.38	-10.56	-10.21	-9.82
17.00	-11.37	-10.47	-10.81	-11.64	-13.13	-12.09	-11.52	-11.72
17.50	-12.78	-12.55	-12.31	-12.62	-14.44	-13.95	-13.40	-13.54
18.00	-12.39	-11.85	-12.38	-11.44	-11.93	-11.66	-11.41	-12.14
18.50	-10.05	-9.41	-10.68	-10.04	-9.13	-9.09	-8.48	-9.16
19.00	-8.56	-8.20	-8.39	-7.64	-7.55	-7.47	-7.08	-8.64
19.50	-7.91	-8.08	-6.84	-6.71	-6.78	-6.88	-6.73	-9.42
20.00	-7.61	-7.69	-6.01	-6.41	-6.38	-6.37	-6.67	-10.13

Typical Performance Data

Test Conditions: @ Temperature = 0°C, Pin = 8 dBm.

Freq. (GHz)	Isolation, Active states (dB)							
	COM-1	COM-3	COM-5	COM-7	J2-J3	J4-J5	J6-J7	J7-J8
0.10	-95.25	-91.19	-96.49	-96.81	-94.26	-98.64	-88.28	-98.22
0.25	-95.12	-85.38	-97.36	-106.33	-96.18	-94.36	-97.03	-91.41
0.50	-89.68	-83.09	-83.54	-87.48	-86.39	-95.03	-90.80	-83.33
1.00	-83.15	-92.50	-83.87	-81.73	-83.12	-100.51	-93.58	-81.44
1.50	-85.69	-76.91	-76.48	-82.67	-83.00	-99.87	-84.76	-80.48
2.00	-85.39	-89.58	-90.91	-80.26	-78.60	-116.33	-77.62	-78.95
2.50	-77.22	-87.35	-87.64	-73.58	-77.96	-93.61	-73.47	-72.65
3.00	-71.01	-79.78	-72.40	-77.71	-83.15	-94.79	-81.10	-75.43
3.50	-76.98	-67.94	-68.59	-69.91	-75.69	-86.96	-75.13	-67.00
4.00	-72.59	-69.33	-66.63	-74.26	-67.02	-108.31	-82.21	-71.47
4.50	-72.10	-72.87	-70.44	-81.31	-64.97	-94.92	-64.83	-79.23
5.00	-65.56	-70.67	-60.22	-79.55	-65.32	-92.77	-67.10	-79.15
5.50	-70.62	-75.72	-68.68	-73.92	-73.31	-89.01	-59.79	-69.64
6.00	-75.03	-66.59	-69.28	-66.83	-72.36	-92.60	-64.96	-62.94
6.50	-61.53	-64.73	-60.74	-68.31	-61.38	-87.45	-71.86	-63.98
7.00	-59.41	-72.28	-65.75	-65.63	-60.39	-100.17	-62.69	-63.39
7.50	-62.65	-65.38	-70.98	-69.33	-70.99	-104.26	-56.68	-72.29
8.00	-59.39	-65.80	-66.49	-63.63	-64.47	-99.64	-56.09	-62.55
8.50	-64.81	-57.29	-54.54	-66.22	-75.98	-85.16	-65.81	-63.87
9.25	-69.70	-62.17	-62.94	-74.18	-68.38	-94.10	-70.42	-71.72
10.00	-60.71	-72.83	-59.94	-67.44	-66.38	-94.47	-69.70	-65.33
10.50	-70.03	-62.77	-64.05	-75.07	-64.42	-87.94	-79.26	-74.98
11.00	-71.22	-70.93	-63.81	-66.05	-65.80	-86.64	-71.06	-64.87
11.50	-64.58	-67.97	-69.99	-70.90	-65.56	-84.56	-65.06	-71.03
12.00	-65.43	-80.67	-65.69	-63.11	-71.90	-91.62	-71.88	-66.18
12.50	-63.09	-71.59	-65.89	-66.05	-67.47	-95.50	-72.45	-66.21
13.00	-59.77	-66.51	-60.85	-71.38	-59.33	-109.53	-68.84	-69.29
13.50	-62.33	-68.99	-65.59	-61.81	-60.85	-94.82	-69.80	-57.65
14.00	-64.75	-65.81	-68.20	-62.01	-55.30	-86.63	-60.89	-59.88
14.50	-57.90	-73.17	-68.83	-62.33	-68.96	-88.20	-62.01	-64.47
15.00	-84.69	-65.86	-69.03	-60.54	-60.32	-82.82	-72.15	-57.71
15.50	-68.87	-69.27	-62.43	-59.51	-54.05	-82.62	-71.83	-53.50
16.00	-61.33	-68.65	-61.53	-64.22	-57.82	-83.32	-66.66	-58.65
16.50	-66.46	-67.93	-69.07	-70.13	-65.22	-85.12	-64.09	-63.66
17.00	-66.01	-66.21	-64.09	-60.70	-63.97	-86.98	-68.98	-57.39
17.50	-64.68	-65.91	-65.05	-64.11	-59.53	-90.00	-61.41	-60.86
18.00	-68.09	-59.45	-67.58	-55.08	-62.42	-82.48	-58.11	-56.30
18.50	-67.07	-49.62	-68.21	-51.35	-63.68	-75.56	-68.43	-52.21
19.00	-58.75	-54.31	-72.86	-67.52	-51.03	-75.17	-68.84	-64.30
19.50	-52.09	-64.96	-72.96	-71.03	-56.18	-75.69	-66.80	-68.55
20.00	-49.64	-66.27	-68.97	-65.89	-52.39	-73.60	-65.86	-71.52

Typical Performance Data

Test Conditions: @ Temperature = 0°C, Pin = 8 dBm.

Freq. (GHz)	Isolation, Disconnected states (dB)							
	COM-1	COM-2	COM-3	COM-4	COM-5	COM-6	COM-7	COM-8
0.10	-88.95	-92.22	-96.64	-93.03	-97.87	-91.84	-92.77	-98.21
0.25	-94.69	-96.89	-95.66	-96.34	-100.96	-99.22	-90.47	-92.92
0.50	-99.45	-95.09	-99.82	-98.41	-90.16	-92.09	-104.82	-99.95
1.00	-104.30	-90.50	-96.43	-90.44	-93.11	-96.33	-96.47	-93.14
1.50	-103.86	-96.22	-91.03	-98.97	-99.18	-92.13	-124.10	-100.77
2.00	-101.24	-93.76	-93.30	-92.79	-104.23	-89.02	-108.59	-95.28
2.50	-92.60	-115.65	-95.42	-100.71	-94.90	-95.48	-94.00	-95.33
3.00	-95.25	-99.14	-92.01	-90.24	-85.41	-89.30	-87.71	-89.61
3.50	-87.82	-91.65	-88.54	-88.11	-94.14	-93.65	-99.89	-101.79
4.00	-86.91	-90.21	-92.99	-89.23	-94.05	-101.19	-99.27	-89.31
4.50	-101.20	-94.25	-106.49	-101.41	-92.25	-94.61	-97.07	-94.55
5.00	-89.96	-107.59	-97.71	-90.25	-89.96	-92.02	-95.74	-97.84
5.50	-87.11	-91.99	-94.16	-91.99	-101.77	-110.83	-101.22	-89.66
6.00	-90.01	-99.20	-95.99	-94.96	-87.47	-97.46	-100.25	-87.37
6.50	-91.65	-87.93	-96.55	-90.70	-93.14	-91.79	-95.06	-94.37
7.00	-92.67	-98.73	-90.07	-89.68	-87.94	-93.88	-87.68	-99.86
7.50	-90.69	-88.19	-89.35	-88.61	-103.10	-88.30	-88.97	-106.39
8.00	-94.82	-96.90	-91.36	-87.07	-92.00	-86.86	-107.67	-93.44
8.50	-87.68	-90.25	-95.18	-105.70	-88.27	-85.50	-92.56	-87.03
9.25	-104.08	-87.17	-91.09	-91.71	-103.28	-96.83	-86.34	-92.33
10.00	-92.74	-89.59	-94.30	-85.12	-82.81	-94.86	-95.72	-99.27
10.50	-98.80	-92.56	-97.87	-86.66	-91.76	-86.52	-88.29	-90.36
11.00	-89.75	-93.13	-90.54	-90.44	-87.12	-105.74	-83.39	-91.93
11.50	-89.45	-94.53	-88.96	-88.89	-92.49	-99.66	-83.36	-88.98
12.00	-87.10	-98.44	-91.14	-82.64	-86.67	-93.84	-89.40	-96.53
12.50	-94.74	-89.78	-92.60	-94.55	-93.52	-100.26	-104.34	-85.88
13.00	-93.10	-92.92	-85.21	-82.59	-86.32	-94.48	-89.30	-94.04
13.50	-91.50	-89.24	-92.79	-104.75	-89.81	-87.20	-95.40	-85.89
14.00	-95.07	-83.94	-86.97	-95.39	-94.89	-99.30	-83.84	-83.35
14.50	-100.34	-93.35	-92.39	-95.48	-88.68	-80.77	-79.23	-88.07
15.00	-86.37	-87.97	-84.09	-81.51	-79.90	-78.19	-74.93	-87.70
15.50	-95.67	-106.53	-102.52	-79.62	-80.34	-82.00	-79.14	-90.75
16.00	-83.78	-94.87	-93.91	-81.24	-78.79	-78.07	-77.05	-80.08
16.50	-91.29	-94.41	-87.02	-74.97	-89.44	-74.29	-77.34	-86.93
17.00	-86.25	-102.29	-80.03	-69.73	-70.33	-73.44	-67.12	-85.69
17.50	-85.45	-80.26	-87.96	-66.26	-66.74	-69.88	-68.52	-90.83
18.00	-83.95	-73.11	-81.01	-67.40	-56.58	-69.90	-88.98	-75.81
18.50	-79.36	-74.52	-71.07	-68.59	-58.09	-66.94	-60.35	-72.36
19.00	-78.24	-76.09	-77.75	-65.42	-69.48	-65.16	-59.74	-87.23
19.50	-79.46	-77.18	-94.13	-72.75	-71.85	-72.37	-69.32	-77.79
20.00	-89.36	-85.09	-88.03	-74.52	-75.60	-71.50	-82.43	-76.96

Typical Performance Data

Test Conditions: @ Temperature = +25°C, Pin = 8 dBm.

Freq. (GHz)	Insertion Loss (dB)							
	COM-J1	COM-J2	COM-J3	COM-J4	COM-J5	COM-J6	COM-J7	COM-J8
0.10	-2.15	-2.14	-2.13	-2.14	-2.14	-2.13	-2.15	-2.16
0.25	-1.53	-1.51	-1.49	-1.51	-1.51	-1.49	-1.51	-1.52
0.50	-1.52	-1.48	-1.47	-1.50	-1.50	-1.47	-1.49	-1.51
1.00	-1.65	-1.62	-1.61	-1.64	-1.64	-1.60	-1.63	-1.64
1.50	-1.75	-1.74	-1.72	-1.74	-1.73	-1.71	-1.74	-1.74
2.00	-1.87	-1.90	-1.87	-1.86	-1.85	-1.87	-1.90	-1.87
2.50	-1.99	-2.00	-1.98	-1.96	-1.97	-1.97	-2.01	-1.98
3.00	-2.29	-2.15	-2.12	-2.25	-2.27	-2.13	-2.17	-2.28
3.50	-2.42	-2.32	-2.27	-2.40	-2.40	-2.29	-2.35	-2.41
4.00	-2.49	-2.42	-2.38	-2.47	-2.47	-2.39	-2.46	-2.48
4.50	-2.61	-2.48	-2.44	-2.60	-2.60	-2.44	-2.50	-2.61
5.00	-2.65	-2.63	-2.59	-2.62	-2.62	-2.62	-2.70	-2.64
5.50	-2.68	-2.80	-2.78	-2.65	-2.64	-2.81	-2.92	-2.66
6.00	-2.89	-2.85	-2.81	-2.84	-2.88	-2.83	-2.91	-2.89
6.50	-2.91	-2.84	-2.81	-2.87	-2.89	-2.83	-2.88	-2.87
7.00	-2.95	-2.95	-2.91	-2.89	-2.95	-2.92	-2.98	-2.88
7.50	-3.06	-3.04	-2.99	-3.02	-3.06	-3.00	-3.05	-3.00
8.00	-3.10	-3.02	-2.98	-3.04	-3.10	-2.95	-3.03	-3.07
8.50	-3.14	-3.05	-3.01	-3.08	-3.11	-3.02	-3.09	-3.12
9.25	-3.54	-3.29	-3.23	-3.41	-3.50	-3.24	-3.30	-3.45
10.00	-3.78	-3.26	-3.23	-3.64	-3.77	-3.25	-3.28	-3.63
10.50	-3.81	-3.34	-3.30	-3.68	-3.76	-3.32	-3.36	-3.73
11.00	-3.92	-3.61	-3.52	-3.86	-3.90	-3.55	-3.58	-3.89
11.50	-4.00	-3.50	-3.49	-3.92	-3.95	-3.48	-3.53	-3.94
12.00	-4.29	-3.79	-3.69	-4.20	-4.31	-3.71	-3.83	-4.25
12.50	-4.32	-4.00	-3.95	-4.14	-4.20	-3.95	-4.05	-4.20
13.00	-4.17	-4.12	-4.08	-3.98	-4.09	-4.05	-4.13	-3.99
13.50	-4.19	-4.31	-4.26	-4.06	-4.11	-4.21	-4.22	-4.04
14.00	-4.29	-4.47	-4.35	-4.17	-4.19	-4.33	-4.21	-4.18
14.50	-4.44	-4.49	-4.42	-4.27	-4.32	-4.45	-4.31	-4.31
15.00	-4.66	-4.99	-4.85	-4.53	-4.58	-4.92	-4.75	-4.56
15.50	-5.07	-5.50	-5.45	-4.88	-4.99	-5.38	-5.32	-5.03
16.00	-5.62	-5.59	-5.56	-5.46	-5.38	-5.39	-5.43	-5.45
16.50	-5.83	-5.38	-5.30	-5.71	-5.61	-5.22	-5.30	-5.54
17.00	-5.76	-5.19	-5.15	-5.53	-5.58	-5.11	-5.22	-5.55
17.50	-5.68	-5.40	-5.39	-5.39	-5.44	-5.32	-5.46	-5.54
18.00	-6.16	-5.78	-5.91	-5.85	-5.89	-5.65	-6.10	-6.10
18.50	-7.01	-6.07	-6.72	-7.05	-6.84	-5.74	-6.65	-7.18
19.00	-7.14	-5.59	-6.92	-7.42	-6.79	-5.32	-5.94	-7.39
19.50	-6.59	-6.39	-6.18	-6.65	-6.22	-6.15	-5.92	-6.55
20.00	-6.86	-7.61	-7.28	-6.21	-6.10	-7.74	-7.19	-5.81

Typical Performance Data

Test Conditions: @ Temperature = +25°C, Pin = 8 dBm.

Freq. (GHz)	Return Loss, Active ports (dB)								
	COM	J1	J2	J3	J4	J5	J6	J7	J8
0.10	-10.12	-8.51	-8.39	-8.38	-8.40	-8.50	-8.43	-8.40	-8.38
0.25	-17.04	-14.81	-14.83	-14.80	-14.73	-14.93	-14.85	-14.81	-14.75
0.50	-22.49	-18.22	-17.99	-17.99	-18.20	-18.44	-18.13	-17.93	-18.00
1.00	-25.88	-24.82	-22.71	-22.76	-24.50	-25.10	-22.82	-22.13	-24.00
1.50	-22.42	-29.37	-24.18	-24.73	-30.12	-31.23	-25.02	-23.59	-27.83
2.00	-25.79	-35.93	-22.69	-22.37	-35.49	-38.06	-22.76	-21.09	-30.95
2.50	-23.46	-22.69	-28.28	-27.50	-24.11	-23.38	-28.14	-24.22	-23.53
3.00	-16.25	-16.57	-23.62	-25.20	-16.77	-16.45	-23.84	-22.10	-16.46
3.50	-17.09	-17.21	-17.88	-18.62	-16.66	-16.86	-18.47	-16.98	-16.76
4.00	-33.47	-18.04	-18.45	-18.65	-17.33	-17.09	-18.76	-16.59	-16.77
4.50	-20.36	-16.30	-17.63	-17.66	-15.35	-15.42	-17.74	-16.19	-14.79
5.00	-21.76	-19.36	-14.17	-13.95	-17.81	-19.38	-13.64	-12.81	-17.42
5.50	-24.97	-20.06	-13.45	-12.98	-20.58	-22.11	-12.66	-11.95	-19.86
6.00	-15.36	-15.45	-15.99	-15.55	-14.82	-15.09	-15.37	-14.01	-15.01
6.50	-15.93	-17.16	-16.33	-15.84	-16.11	-15.62	-16.16	-15.01	-16.29
7.00	-24.86	-18.52	-15.01	-14.94	-16.80	-16.18	-15.19	-14.48	-17.42
7.50	-20.39	-16.59	-16.13	-16.18	-15.59	-15.04	-16.63	-15.64	-15.89
8.00	-19.93	-19.06	-20.58	-20.74	-18.29	-18.39	-22.28	-19.97	-18.70
8.50	-35.96	-21.49	-23.33	-24.80	-21.31	-20.52	-24.26	-23.21	-22.28
9.25	-15.84	-14.30	-21.39	-22.94	-14.31	-13.47	-20.75	-20.06	-14.12
10.00	-13.25	-13.09	-27.18	-26.80	-13.34	-12.41	-27.22	-24.68	-13.21
10.50	-16.39	-15.51	-36.27	-41.74	-15.57	-15.59	-35.34	-51.13	-15.57
11.00	-18.31	-19.67	-23.54	-23.79	-18.26	-19.51	-24.63	-25.76	-19.04
11.50	-14.93	-17.00	-32.02	-29.33	-15.18	-15.90	-32.20	-33.36	-16.24
12.00	-13.34	-12.93	-20.05	-22.35	-13.03	-11.65	-20.35	-18.90	-12.98
12.50	-14.55	-12.80	-15.01	-14.96	-13.45	-12.92	-14.49	-13.31	-12.55
13.00	-17.90	-16.23	-14.49	-13.29	-17.73	-16.70	-13.21	-12.42	-16.93
13.50	-21.48	-26.44	-13.91	-13.71	-24.24	-20.86	-14.01	-13.94	-38.51
14.00	-27.89	-33.54	-14.24	-14.67	-27.70	-32.63	-14.62	-17.57	-24.23
14.50	-37.58	-24.82	-15.08	-15.70	-29.27	-25.22	-14.14	-18.00	-43.28
15.00	-27.71	-39.46	-11.92	-11.93	-29.02	-24.69	-11.08	-13.32	-35.58
15.50	-18.37	-16.64	-10.84	-10.10	-18.01	-15.00	-10.48	-11.34	-15.30
16.00	-13.39	-12.57	-11.76	-11.13	-11.50	-14.36	-12.77	-12.24	-12.19
16.50	-11.34	-12.10	-14.52	-14.07	-11.42	-11.68	-15.12	-14.78	-14.04
17.00	-11.39	-13.32	-16.67	-16.01	-14.34	-12.31	-15.59	-16.01	-13.41
17.50	-15.35	-13.87	-14.02	-12.88	-15.80	-12.70	-12.06	-12.43	-12.31
18.00	-17.18	-12.01	-11.85	-10.37	-10.87	-10.09	-10.59	-9.36	-9.53
18.50	-9.95	-9.80	-11.60	-9.51	-7.28	-8.14	-11.74	-8.75	-7.39
19.00	-7.94	-10.61	-15.31	-10.13	-6.58	-8.36	-15.46	-10.71	-7.18
19.50	-10.84	-16.96	-12.64	-13.39	-10.56	-21.18	-10.60	-11.75	-11.97
20.00	-10.42	-17.54	-9.33	-8.12	-15.37	-11.83	-7.86	-7.25	-17.77

Typical Performance Data

Test Conditions: @ Temperature = +25°C, Pin = 8 dBm.

Freq. (GHz)	Return Loss, Internally terminated ports (dB)							
	J1	J2	J3	J4	J5	J6	J7	J8
0.10	-21.65	-21.63	-21.66	-21.73	-21.98	-22.03	-21.99	-21.79
0.25	-21.99	-21.93	-22.08	-22.05	-22.29	-22.36	-22.23	-22.12
0.50	-22.02	-21.99	-22.22	-22.05	-22.38	-22.50	-22.67	-22.35
1.00	-22.65	-22.43	-22.56	-22.40	-22.75	-23.41	-23.38	-22.94
1.50	-22.65	-22.42	-22.36	-21.89	-22.52	-23.80	-23.77	-22.53
2.00	-21.12	-21.63	-21.72	-21.28	-21.51	-22.87	-22.86	-21.25
2.50	-18.97	-19.74	-19.78	-19.58	-19.63	-20.47	-20.17	-18.92
3.00	-16.83	-17.24	-17.26	-16.89	-17.28	-17.26	-17.09	-16.62
3.50	-14.31	-14.89	-14.93	-14.49	-15.17	-14.65	-14.63	-14.36
4.00	-12.74	-13.00	-12.83	-12.65	-13.24	-12.30	-12.49	-12.52
4.50	-11.29	-11.23	-11.17	-11.11	-11.55	-10.56	-11.05	-11.27
5.00	-10.35	-10.15	-9.85	-10.27	-10.31	-9.40	-9.94	-10.27
5.50	-9.67	-9.40	-9.10	-9.57	-9.48	-8.78	-9.33	-9.73
6.00	-9.32	-9.22	-8.73	-8.93	-9.26	-8.43	-9.23	-9.42
6.50	-9.28	-9.08	-8.75	-8.64	-9.22	-8.56	-9.11	-9.29
7.00	-9.32	-9.37	-8.96	-8.80	-9.49	-8.94	-9.30	-9.42
7.50	-9.59	-9.75	-9.60	-9.36	-9.81	-9.37	-9.69	-9.68
8.00	-10.13	-10.30	-10.22	-9.98	-10.42	-9.88	-10.38	-10.34
8.50	-11.18	-11.11	-11.16	-10.98	-11.58	-10.85	-11.39	-10.80
9.25	-12.82	-12.49	-12.31	-12.35	-13.52	-12.70	-13.10	-12.05
10.00	-13.71	-13.00	-13.15	-14.07	-14.55	-13.45	-13.71	-13.53
10.50	-13.60	-13.35	-13.02	-14.39	-14.46	-13.17	-13.64	-14.51
11.00	-13.22	-12.98	-12.59	-13.20	-14.00	-12.67	-12.70	-14.02
11.50	-12.07	-12.57	-11.64	-11.94	-13.41	-11.95	-11.77	-12.77
12.00	-11.43	-11.62	-11.31	-10.51	-12.34	-10.72	-10.72	-11.49
12.50	-10.99	-10.96	-11.08	-10.73	-11.54	-9.79	-10.23	-11.11
13.00	-11.43	-10.86	-11.42	-11.67	-11.41	-9.83	-10.51	-10.88
13.50	-12.05	-11.46	-11.86	-11.71	-12.02	-10.27	-11.29	-11.55
14.00	-12.57	-12.24	-12.30	-11.38	-13.10	-11.39	-12.31	-11.78
14.50	-11.80	-11.75	-11.71	-10.50	-12.47	-11.85	-11.93	-11.56
15.00	-10.72	-10.76	-10.85	-10.33	-10.93	-11.19	-10.57	-11.09
15.50	-10.51	-10.12	-10.27	-11.39	-10.29	-10.75	-10.21	-10.86
16.00	-11.17	-10.38	-9.91	-13.01	-10.87	-10.86	-10.92	-11.55
16.50	-11.84	-10.94	-10.17	-12.50	-12.62	-11.59	-12.05	-11.53
17.00	-12.55	-11.56	-11.07	-11.76	-14.30	-12.84	-12.82	-12.75
17.50	-12.20	-11.49	-12.37	-12.43	-13.09	-12.99	-11.71	-12.04
18.00	-11.82	-11.06	-12.88	-11.57	-11.24	-11.63	-10.64	-11.82
18.50	-11.34	-10.80	-11.14	-10.80	-10.15	-10.06	-9.63	-10.63
19.00	-9.45	-9.50	-8.45	-8.15	-8.59	-8.21	-8.13	-9.64
19.50	-7.94	-7.96	-6.65	-6.45	-6.88	-6.75	-6.73	-9.03
20.00	-7.25	-6.97	-5.73	-5.88	-5.79	-6.03	-5.89	-8.86

Typical Performance Data

Test Conditions: @ Temperature = +25°C, Pin = 8 dBm.

Freq. (GHz)	Isolation, Active states (dB)							
	COM-2	COM-3	COM-5	COM-7	J1-J2	J3-J4	J5-J6	J7-J8
0.10	-95.22	-94.44	-91.26	-96.87	-98.80	-92.16	-102.82	-94.10
0.25	-102.01	-83.85	-106.08	-103.00	-102.33	-99.40	-93.92	-96.19
0.50	-94.22	-81.14	-83.50	-90.73	-90.31	-95.61	-101.50	-100.02
1.00	-83.14	-84.14	-86.60	-85.56	-83.50	-101.00	-94.46	-84.96
1.50	-88.78	-77.82	-79.72	-84.49	-84.20	-93.34	-84.75	-83.64
2.00	-89.48	-102.17	-86.68	-90.17	-79.48	-101.91	-76.99	-82.26
2.50	-77.78	-82.27	-86.57	-75.37	-79.05	-99.41	-74.05	-73.50
3.00	-70.61	-82.31	-73.92	-78.72	-83.70	-94.84	-80.56	-78.36
3.50	-76.87	-68.42	-69.65	-68.98	-76.50	-93.77	-78.93	-66.71
4.00	-74.47	-69.11	-67.46	-75.79	-68.54	-93.06	-79.36	-73.47
4.50	-74.86	-73.87	-70.75	-78.67	-65.38	-91.98	-66.65	-78.08
5.00	-67.18	-74.78	-60.17	-86.30	-65.86	-88.10	-67.67	-81.88
5.50	-69.56	-74.44	-71.75	-72.42	-74.36	-87.18	-60.94	-69.88
6.00	-73.43	-67.83	-66.77	-67.77	-74.41	-90.00	-66.96	-63.08
6.50	-61.58	-66.71	-62.55	-69.06	-62.34	-89.04	-73.21	-65.16
7.00	-61.15	-72.32	-66.97	-67.23	-61.61	-98.04	-63.64	-65.27
7.50	-63.61	-66.01	-70.81	-69.41	-74.70	-93.70	-56.51	-73.49
8.00	-59.55	-64.28	-64.32	-64.93	-65.11	-108.31	-58.31	-63.50
8.50	-66.92	-61.04	-55.32	-66.86	-74.66	-92.78	-67.19	-64.04
9.25	-67.88	-64.49	-66.86	-75.68	-68.12	-93.84	-69.03	-71.43
10.00	-63.86	-69.65	-60.57	-68.99	-64.97	-94.42	-71.24	-67.65
10.50	-71.45	-66.58	-68.37	-74.45	-63.66	-88.68	-82.50	-76.28
11.00	-73.39	-69.57	-65.00	-69.07	-66.95	-89.56	-70.90	-65.99
11.50	-66.73	-69.94	-71.54	-70.94	-69.07	-86.08	-67.19	-74.03
12.00	-66.71	-81.49	-67.62	-64.00	-74.44	-102.87	-74.22	-67.33
12.50	-63.10	-73.56	-66.87	-67.54	-69.09	-97.98	-72.77	-69.19
13.00	-61.82	-68.17	-62.60	-71.10	-62.80	-89.62	-70.21	-68.63
13.50	-64.52	-68.83	-70.28	-62.39	-61.82	-96.01	-69.92	-58.76
14.00	-63.31	-66.86	-69.30	-62.92	-57.33	-92.10	-59.83	-61.90
14.50	-61.18	-80.90	-69.76	-63.22	-70.92	-80.70	-64.25	-65.48
15.00	-82.28	-66.57	-66.52	-61.20	-58.51	-89.25	-68.03	-58.80
15.50	-67.71	-67.08	-65.21	-61.68	-56.87	-87.92	-74.37	-55.06
16.00	-62.13	-69.30	-62.63	-67.47	-59.16	-89.89	-66.95	-61.19
16.50	-67.24	-70.22	-78.40	-69.98	-69.17	-83.59	-66.73	-62.75
17.00	-67.55	-68.20	-65.14	-63.60	-66.80	-86.36	-73.26	-59.98
17.50	-65.94	-69.81	-68.76	-63.48	-62.24	-86.28	-61.15	-61.52
18.00	-74.82	-57.97	-67.55	-55.24	-61.64	-85.09	-60.34	-55.91
18.50	-65.51	-52.27	-70.34	-55.11	-64.94	-74.89	-71.31	-55.43
19.00	-59.35	-56.91	-72.52	-72.36	-52.55	-76.77	-69.03	-67.04
19.50	-53.47	-67.76	-72.95	-69.01	-56.11	-77.96	-71.32	-71.20
20.00	-50.80	-67.56	-70.28	-67.80	-52.23	-74.00	-68.02	-73.19

Typical Performance Data

Test Conditions: @ Temperature = +25°C, Pin = 8 dBm.

Freq. (GHz)	Isolation, Disconnected states (dB)							
	COM-1	COM-2	COM-3	COM-4	COM-5	COM-6	COM-7	COM-8
0.10	-94.76	-95.70	-94.24	-94.93	-98.20	-90.62	-100.79	-96.74
0.25	-96.45	-90.85	-101.95	-95.74	-88.76	-96.83	-89.67	-91.58
0.50	-91.93	-96.64	-96.04	-94.51	-94.67	-94.71	-98.14	-92.55
1.00	-88.41	-101.07	-89.98	-108.02	-103.55	-93.45	-102.59	-94.00
1.50	-105.48	-96.25	-89.33	-88.34	-91.99	-100.16	-112.15	-130.74
2.00	-93.50	-92.48	-93.47	-98.29	-88.96	-108.98	-94.47	-96.59
2.50	-94.58	-94.42	-96.21	-92.76	-94.62	-97.76	-88.57	-97.21
3.00	-86.79	-102.47	-86.54	-85.50	-89.24	-87.45	-87.93	-92.90
3.50	-89.86	-91.78	-89.44	-89.57	-88.90	-89.23	-92.13	-93.12
4.00	-86.97	-93.68	-89.50	-94.01	-104.51	-94.93	-94.05	-100.96
4.50	-97.95	-103.15	-95.67	-86.86	-91.41	-94.66	-87.19	-88.55
5.00	-95.10	-89.73	-95.02	-84.36	-97.68	-103.47	-112.27	-105.05
5.50	-105.67	-100.66	-89.19	-89.00	-88.66	-93.09	-103.70	-83.58
6.00	-87.07	-87.53	-89.87	-91.70	-99.23	-89.80	-87.95	-98.86
6.50	-96.08	-92.81	-90.06	-97.73	-85.90	-91.12	-88.30	-86.47
7.00	-89.48	-101.99	-91.34	-90.02	-88.08	-90.79	-103.93	-93.16
7.50	-123.49	-96.73	-93.26	-87.38	-93.91	-93.23	-101.11	-94.26
8.00	-87.48	-92.83	-90.13	-88.40	-94.49	-95.72	-89.36	-95.63
8.50	-90.08	-83.20	-100.23	-101.11	-87.18	-89.62	-91.05	-83.87
9.25	-96.34	-92.23	-87.12	-84.59	-89.89	-85.23	-91.00	-93.65
10.00	-90.70	-99.93	-99.59	-95.17	-86.15	-95.21	-88.82	-107.73
10.50	-91.10	-93.00	-85.53	-84.80	-83.62	-99.63	-86.05	-92.56
11.00	-89.43	-95.32	-90.72	-98.18	-87.09	-99.63	-86.91	-88.82
11.50	-88.67	-86.71	-86.89	-100.44	-84.82	-85.96	-90.65	-87.18
12.00	-87.10	-90.14	-89.13	-96.34	-95.12	-93.83	-88.89	-103.53
12.50	-93.26	-102.09	-85.92	-94.89	-87.00	-86.52	-86.14	-95.49
13.00	-93.25	-89.65	-105.14	-89.57	-88.38	-89.77	-93.13	-97.19
13.50	-84.40	-87.07	-92.15	-88.33	-100.27	-90.64	-89.11	-93.40
14.00	-85.83	-95.56	-92.61	-93.14	-86.63	-95.93	-86.96	-105.98
14.50	-92.26	-92.02	-93.58	-81.90	-89.54	-90.37	-86.40	-87.02
15.00	-101.52	-90.37	-85.91	-84.20	-86.37	-78.35	-76.17	-91.43
15.50	-92.11	-90.90	-101.35	-85.53	-79.83	-80.57	-82.80	-86.38
16.00	-85.88	-87.08	-87.87	-78.06	-82.54	-76.58	-82.50	-84.29
16.50	-92.68	-90.20	-93.58	-81.43	-90.49	-73.46	-77.39	-84.94
17.00	-100.52	-108.36	-96.43	-72.40	-75.48	-76.19	-69.84	-94.36
17.50	-83.06	-93.95	-88.95	-68.15	-66.73	-74.41	-70.41	-84.43
18.00	-87.90	-87.62	-77.50	-73.14	-58.74	-75.01	-74.01	-83.13
18.50	-77.14	-74.13	-72.56	-69.12	-63.19	-66.26	-63.49	-72.58
19.00	-80.22	-76.27	-83.84	-70.98	-72.75	-69.62	-63.81	-85.71
19.50	-88.03	-80.62	-90.64	-78.70	-81.52	-74.18	-75.50	-86.77
20.00	-83.26	-88.30	-81.54	-77.19	-77.48	-72.49	-76.44	-83.26

Typical Performance Data

Test Conditions: @ Temperature = +50°C, Pin = 8 dBm.

Freq. (GHz)	Insertion Loss (dB)							
	COM-J1	COM-J2	COM-J3	COM-J4	COM-J5	COM-J6	COM-J7	COM-J8
0.10	-2.19	-2.21	-2.20	-2.20	-2.20	-2.19	-2.21	-2.23
0.25	-1.57	-1.56	-1.55	-1.58	-1.57	-1.55	-1.57	-1.59
0.50	-1.56	-1.54	-1.54	-1.57	-1.57	-1.54	-1.55	-1.58
1.00	-1.71	-1.70	-1.70	-1.73	-1.73	-1.70	-1.72	-1.74
1.50	-1.84	-1.86	-1.85	-1.87	-1.86	-1.86	-1.87	-1.88
2.00	-1.98	-2.02	-2.02	-2.00	-1.99	-2.02	-2.04	-2.02
2.50	-2.11	-2.13	-2.13	-2.12	-2.12	-2.14	-2.16	-2.15
3.00	-2.39	-2.29	-2.27	-2.41	-2.41	-2.30	-2.31	-2.44
3.50	-2.53	-2.44	-2.42	-2.56	-2.55	-2.45	-2.48	-2.58
4.00	-2.60	-2.54	-2.53	-2.62	-2.62	-2.56	-2.60	-2.64
4.50	-2.71	-2.60	-2.59	-2.73	-2.74	-2.61	-2.64	-2.76
5.00	-2.75	-2.75	-2.74	-2.76	-2.76	-2.77	-2.82	-2.79
5.50	-2.76	-2.91	-2.91	-2.76	-2.75	-2.96	-3.02	-2.78
6.00	-2.95	-2.95	-2.93	-2.95	-2.97	-2.98	-3.01	-3.00
6.50	-2.98	-2.92	-2.92	-2.99	-2.99	-2.96	-2.97	-3.00
7.00	-3.03	-3.04	-3.04	-3.02	-3.04	-3.06	-3.08	-3.02
7.50	-3.13	-3.14	-3.12	-3.14	-3.16	-3.15	-3.16	-3.14
8.00	-3.18	-3.12	-3.11	-3.17	-3.22	-3.10	-3.13	-3.21
8.50	-3.21	-3.13	-3.12	-3.20	-3.22	-3.15	-3.19	-3.26
9.25	-3.62	-3.41	-3.37	-3.55	-3.65	-3.41	-3.44	-3.60
10.00	-3.82	-3.37	-3.37	-3.74	-3.82	-3.42	-3.40	-3.74
10.50	-3.99	-3.52	-3.50	-3.92	-3.99	-3.54	-3.55	-3.99
11.00	-4.01	-3.72	-3.68	-4.00	-4.05	-3.73	-3.72	-4.06
11.50	-4.13	-3.69	-3.71	-4.13	-4.13	-3.72	-3.73	-4.17
12.00	-4.45	-3.96	-3.90	-4.46	-4.48	-3.95	-4.02	-4.50
12.50	-4.49	-4.21	-4.20	-4.37	-4.44	-4.20	-4.27	-4.46
13.00	-4.29	-4.25	-4.27	-4.17	-4.27	-4.24	-4.29	-4.23
13.50	-4.33	-4.43	-4.42	-4.29	-4.30	-4.44	-4.40	-4.29
14.00	-4.49	-4.69	-4.61	-4.46	-4.46	-4.66	-4.45	-4.49
14.50	-4.59	-4.69	-4.68	-4.51	-4.53	-4.72	-4.53	-4.58
15.00	-4.78	-5.18	-5.11	-4.75	-4.76	-5.15	-4.94	-4.79
15.50	-5.28	-5.75	-5.79	-5.17	-5.25	-5.70	-5.57	-5.32
16.00	-5.86	-5.78	-5.80	-5.78	-5.79	-5.74	-5.70	-5.85
16.50	-6.00	-5.62	-5.61	-6.07	-5.89	-5.56	-5.59	-5.86
17.00	-6.06	-5.53	-5.57	-5.94	-5.94	-5.53	-5.57	-5.96
17.50	-6.08	-5.75	-5.86	-5.86	-5.98	-5.71	-5.83	-6.10
18.00	-6.40	-6.15	-6.46	-6.25	-6.34	-6.05	-6.49	-6.53
18.50	-7.15	-6.40	-7.30	-7.51	-7.25	-6.21	-6.98	-7.58
19.00	-7.26	-5.89	-7.01	-7.94	-7.22	-5.78	-6.26	-7.78
19.50	-6.67	-6.70	-6.70	-7.10	-6.58	-6.77	-6.38	-6.96
20.00	-6.76	-7.80	-7.77	-6.76	-6.37	-8.05	-7.58	-6.27

NOTES:

- A. Performance and quality attributes and conditions not expressly stated in this specification document are intended to be excluded and do not form a part of this specification document.
 B. Electrical specifications and performance data contained in this specification document are based on Mini-Circuit's applicable established test performance criteria and measurement instructions.
 C. The parts covered by this specification document are subject to Mini-Circuits standard limited warranty and terms and conditions (collectively, "Standard Terms"); Purchasers of this part are entitled to the rights and benefits contained therein. For a full statement of the Standard Terms and the exclusive rights and remedies thereunder, please visit Mini-Circuits' website at <https://www.minicircuits.com/terms/viewterm.html>



Typical Performance Data

Test Conditions: @ Temperature = +50°C, Pin = 8 dBm.

Freq. (GHz)	Return Loss, Active ports (dB)								
	COM	J1	J2	J3	J4	J5	J6	J7	J8
0.10	-10.34	-8.52	-8.43	-8.44	-8.49	-8.57	-8.54	-8.47	-8.48
0.25	-17.12	-14.75	-14.77	-14.82	-14.70	-14.91	-14.83	-14.77	-14.73
0.50	-22.29	-18.10	-17.96	-17.89	-18.05	-18.28	-17.94	-17.82	-17.91
1.00	-26.23	-24.77	-22.49	-22.65	-24.68	-25.18	-22.86	-22.14	-24.10
1.50	-22.09	-29.03	-23.51	-23.95	-29.90	-30.79	-24.49	-22.93	-27.79
2.00	-25.16	-37.33	-22.98	-22.83	-38.45	-41.62	-23.37	-21.37	-32.38
2.50	-23.22	-22.12	-28.97	-28.35	-23.33	-22.34	-28.84	-24.51	-22.71
3.00	-16.66	-16.62	-23.30	-25.06	-16.73	-16.56	-23.67	-21.79	-16.44
3.50	-17.20	-16.89	-18.04	-18.80	-16.32	-16.73	-18.36	-16.92	-16.40
4.00	-30.52	-17.62	-18.04	-18.26	-16.93	-16.86	-18.21	-16.26	-16.45
4.50	-20.95	-16.35	-17.09	-17.13	-15.55	-15.22	-17.20	-15.65	-14.86
5.00	-21.67	-18.89	-14.10	-13.80	-17.58	-18.26	-13.82	-12.84	-17.11
5.50	-25.78	-19.95	-13.17	-12.86	-20.45	-20.80	-12.66	-11.83	-19.69
6.00	-15.37	-15.27	-15.70	-15.35	-14.48	-14.66	-15.01	-13.73	-14.92
6.50	-15.91	-16.79	-16.21	-15.96	-15.46	-15.71	-15.96	-14.97	-15.95
7.00	-25.10	-18.01	-15.02	-14.80	-16.27	-16.61	-15.01	-14.34	-17.08
7.50	-20.36	-16.22	-16.06	-15.96	-15.29	-15.20	-16.67	-15.52	-15.63
8.00	-19.81	-18.62	-20.49	-20.55	-18.03	-17.43	-22.50	-19.81	-18.19
8.50	-44.32	-21.53	-23.32	-24.69	-21.50	-19.81	-24.32	-23.29	-22.14
9.25	-15.30	-14.64	-22.38	-24.08	-14.57	-13.30	-21.96	-20.83	-14.32
10.00	-14.22	-13.78	-30.12	-32.12	-14.04	-13.70	-28.72	-27.18	-14.30
10.50	-15.27	-14.59	-39.64	-36.63	-14.94	-15.06	-46.17	-35.02	-14.97
11.00	-19.77	-19.08	-24.36	-25.22	-18.63	-18.34	-24.39	-26.49	-18.71
11.50	-15.44	-18.22	-28.88	-24.63	-16.06	-16.68	-27.80	-30.38	-17.22
12.00	-12.90	-12.86	-20.33	-23.58	-12.81	-12.36	-20.30	-19.51	-13.25
12.50	-14.72	-12.24	-14.24	-14.15	-13.37	-12.14	-14.35	-13.00	-12.19
13.00	-21.49	-16.24	-14.77	-13.39	-18.84	-16.25	-14.28	-12.74	-16.33
13.50	-22.92	-30.01	-15.21	-15.14	-24.03	-24.24	-14.77	-14.21	-43.89
14.00	-23.09	-30.58	-14.12	-15.08	-26.91	-28.72	-14.01	-17.17	-21.89
14.50	-31.10	-24.26	-14.84	-15.02	-28.88	-31.72	-14.21	-18.08	-48.70
15.00	-24.83	-28.40	-11.51	-11.23	-29.15	-41.57	-11.50	-13.32	-37.41
15.50	-16.00	-14.87	-10.57	-9.86	-17.74	-14.88	-10.81	-11.31	-15.04
16.00	-12.36	-12.05	-12.34	-12.09	-11.68	-12.49	-12.86	-12.43	-11.67
16.50	-12.14	-12.96	-14.65	-14.26	-11.44	-13.00	-14.95	-14.53	-15.05
17.00	-11.36	-12.50	-15.63	-14.61	-14.04	-12.43	-15.21	-15.16	-13.28
17.50	-14.10	-12.17	-13.63	-12.43	-15.82	-11.74	-12.93	-12.84	-11.50
18.00	-19.91	-11.78	-11.91	-10.73	-11.64	-9.74	-11.44	-10.05	-9.97
18.50	-9.84	-9.87	-12.08	-10.46	-7.56	-8.94	-12.16	-9.24	-8.11
19.00	-7.93	-10.31	-15.86	-11.23	-6.71	-9.03	-15.63	-11.15	-7.71
19.50	-11.95	-18.90	-12.02	-12.55	-10.67	-20.42	-10.34	-11.00	-12.03
20.00	-12.78	-15.72	-8.97	-8.00	-14.44	-12.47	-8.35	-7.35	-17.00

NOTES:

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Typical Performance Data

Test Conditions: @ Temperature = +50°C, Pin = 8 dBm.

Freq. (GHz)	Return Loss, Internally terminated ports (dB)							
	J1	J2	J3	J4	J5	J6	J7	J8
0.10	-21.73	-21.73	-21.72	-21.79	-21.98	-22.09	-21.98	-21.89
0.25	-22.32	-22.11	-22.33	-22.32	-22.55	-22.76	-22.58	-22.43
0.50	-22.26	-22.42	-22.69	-22.49	-22.87	-22.90	-23.08	-22.77
1.00	-23.06	-22.84	-22.97	-22.70	-23.08	-23.78	-23.95	-23.33
1.50	-22.91	-22.74	-22.49	-22.19	-22.61	-24.11	-23.94	-22.72
2.00	-21.12	-21.62	-21.71	-21.18	-21.49	-22.99	-22.84	-21.15
2.50	-18.96	-19.80	-19.81	-19.34	-19.77	-20.46	-20.15	-18.95
3.00	-16.64	-17.28	-17.29	-16.91	-17.44	-17.21	-17.15	-16.53
3.50	-14.39	-14.90	-14.80	-14.65	-15.07	-14.52	-14.60	-14.33
4.00	-12.70	-12.99	-12.76	-12.83	-13.14	-12.23	-12.53	-12.47
4.50	-11.24	-11.23	-11.19	-11.12	-11.53	-10.50	-11.02	-11.21
5.00	-10.24	-10.01	-9.90	-10.00	-10.39	-9.37	-9.90	-10.16
5.50	-9.52	-9.34	-9.07	-9.28	-9.56	-8.74	-9.31	-9.62
6.00	-9.25	-9.25	-8.62	-8.84	-9.27	-8.41	-9.28	-9.38
6.50	-9.22	-9.16	-8.66	-8.85	-9.19	-8.56	-9.17	-9.22
7.00	-9.37	-9.39	-9.00	-9.07	-9.51	-8.95	-9.37	-9.34
7.50	-9.64	-9.79	-9.74	-9.49	-9.94	-9.43	-9.81	-9.70
8.00	-10.27	-10.53	-10.56	-9.88	-10.79	-10.08	-10.64	-10.49
8.50	-11.46	-11.58	-11.65	-11.10	-12.17	-11.32	-11.94	-11.23
9.25	-13.36	-13.19	-12.76	-13.46	-14.06	-13.33	-13.76	-12.51
10.00	-13.60	-12.85	-13.14	-13.96	-14.56	-13.35	-13.51	-13.31
10.50	-13.20	-13.03	-13.11	-13.69	-14.59	-13.01	-13.47	-14.18
11.00	-13.46	-13.35	-13.05	-13.27	-14.55	-12.97	-13.21	-14.55
11.50	-12.61	-13.31	-12.04	-12.98	-13.78	-12.33	-12.50	-13.47
12.00	-11.60	-11.94	-11.38	-11.31	-12.35	-10.90	-11.01	-11.55
12.50	-10.75	-10.66	-11.08	-10.47	-11.56	-9.74	-10.05	-10.70
13.00	-11.03	-10.39	-11.58	-10.78	-11.70	-9.78	-10.24	-10.39
13.50	-12.07	-11.56	-12.29	-11.16	-12.65	-10.45	-11.44	-11.61
14.00	-13.21	-13.36	-12.50	-11.99	-13.53	-11.76	-13.05	-12.57
14.50	-12.25	-12.45	-11.78	-11.96	-12.50	-12.17	-12.64	-11.86
15.00	-10.60	-10.45	-11.12	-10.84	-11.10	-11.25	-10.65	-10.62
15.50	-10.23	-9.64	-10.72	-10.60	-10.70	-10.83	-10.05	-10.17
16.00	-10.98	-10.44	-10.35	-11.83	-11.53	-11.23	-11.02	-11.58
16.50	-12.45	-11.99	-10.45	-13.25	-13.39	-12.23	-12.94	-12.54
17.00	-13.39	-12.52	-11.14	-13.28	-14.56	-13.19	-13.89	-13.59
17.50	-12.23	-11.26	-12.44	-12.88	-13.18	-12.74	-11.60	-11.71
18.00	-11.43	-10.62	-13.64	-11.00	-11.59	-11.67	-10.44	-11.11
18.50	-11.15	-11.27	-11.74	-10.34	-10.74	-10.60	-10.08	-10.58
19.00	-9.70	-10.66	-8.66	-8.97	-8.99	-8.65	-8.79	-9.34
19.50	-7.95	-8.45	-6.68	-6.88	-7.07	-6.86	-7.06	-7.92
20.00	-6.83	-7.00	-5.71	-5.62	-5.97	-6.09	-5.94	-7.09

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Typical Performance Data

Test Conditions: @ Temperature = +50°C, Pin = 8 dBm.

Freq. (GHz)	Isolation, Active states (dB)							
	COM-2	COM-3	COM-5	COM-7	J1-J2	J3-J4	J5-J6	J7-J8
0.10	-97.21	-96.17	-96.28	-91.52	-89.14	-91.35	-92.51	-99.33
0.25	-93.92	-89.08	-99.77	-101.33	-99.35	-92.79	-89.19	-95.57
0.50	-95.73	-84.18	-84.18	-89.19	-89.76	-89.77	-89.77	-86.54
1.00	-84.89	-86.67	-87.00	-84.78	-86.36	-92.94	-88.03	-84.41
1.50	-86.71	-77.63	-78.91	-83.81	-82.52	-88.94	-87.01	-81.65
2.00	-87.69	-100.57	-85.45	-85.31	-78.52	-104.93	-79.22	-87.86
2.50	-79.33	-85.50	-84.68	-75.28	-80.92	-101.07	-73.68	-75.42
3.00	-71.17	-87.75	-75.42	-79.39	-83.23	-94.26	-83.88	-80.43
3.50	-76.74	-68.98	-69.61	-69.56	-78.51	-98.50	-75.03	-67.01
4.00	-74.14	-71.41	-67.98	-77.48	-69.45	-88.28	-79.58	-75.51
4.50	-73.56	-71.97	-71.16	-80.05	-66.04	-97.12	-68.22	-80.04
5.00	-67.71	-78.73	-60.57	-83.96	-65.98	-93.57	-69.69	-79.25
5.50	-71.38	-73.37	-71.53	-72.72	-73.60	-90.45	-61.76	-68.69
6.00	-73.96	-68.64	-63.23	-67.43	-74.97	-98.76	-69.36	-63.41
6.50	-62.35	-68.80	-64.35	-69.61	-63.30	-104.84	-74.55	-65.76
7.00	-62.68	-72.35	-67.31	-69.66	-61.97	-94.62	-64.34	-67.97
7.50	-64.16	-66.56	-69.93	-69.45	-80.65	-87.93	-56.89	-75.01
8.00	-59.85	-63.34	-62.53	-65.84	-66.87	-90.65	-60.18	-64.62
8.50	-68.65	-65.44	-56.61	-67.08	-73.32	-91.46	-68.72	-65.30
9.25	-66.97	-68.15	-68.77	-74.19	-67.41	-87.82	-68.17	-69.90
10.00	-66.71	-66.47	-61.40	-73.20	-64.52	-88.26	-72.28	-71.27
10.50	-72.37	-70.42	-76.58	-74.61	-63.93	-91.91	-87.86	-74.43
11.00	-73.61	-70.06	-66.46	-70.96	-68.66	-89.02	-71.48	-69.38
11.50	-67.22	-72.04	-71.42	-70.86	-73.79	-88.23	-69.10	-79.01
12.00	-67.32	-78.12	-72.31	-65.87	-77.38	-95.22	-76.55	-67.88
12.50	-63.60	-75.52	-67.45	-69.00	-69.29	-91.23	-71.38	-69.60
13.00	-63.94	-70.98	-65.37	-71.93	-65.89	-90.02	-72.83	-67.50
13.50	-67.35	-67.89	-72.01	-64.53	-62.22	-88.15	-72.84	-60.23
14.00	-63.58	-69.09	-73.33	-64.75	-60.52	-91.39	-61.20	-64.11
14.50	-64.56	-69.95	-72.90	-64.42	-70.13	-89.36	-69.94	-66.29
15.00	-82.27	-67.47	-65.01	-61.62	-58.65	-86.51	-69.25	-58.72
15.50	-67.75	-67.85	-65.56	-64.14	-59.14	-87.13	-72.32	-57.53
16.00	-65.76	-70.86	-64.79	-71.52	-62.02	-115.47	-66.56	-62.98
16.50	-69.95	-69.04	-71.37	-68.56	-73.96	-86.95	-68.23	-62.78
17.00	-67.06	-69.14	-67.35	-66.87	-67.86	-85.84	-72.85	-62.15
17.50	-67.64	-69.44	-71.12	-62.90	-68.70	-81.08	-62.55	-61.30
18.00	-72.11	-56.54	-68.36	-55.57	-62.48	-83.09	-64.29	-55.68
18.50	-67.76	-55.59	-70.37	-59.15	-60.79	-78.71	-67.78	-58.74
19.00	-62.94	-61.19	-74.97	-78.09	-55.79	-76.48	-68.34	-68.93
19.50	-60.54	-69.39	-74.22	-69.11	-58.95	-76.38	-69.30	-73.98
20.00	-58.01	-66.34	-70.98	-67.74	-53.90	-73.41	-73.70	-72.39

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Typical Performance Data

Test Conditions: @ Temperature = +50°C, Pin = 8 dBm.

Freq. (GHz)	Isolation, Disconnected states (dB)							
	COM-1	COM-2	COM-3	COM-4	COM-5	COM-6	COM-7	COM-8
0.10	-100.81	-94.44	-98.33	-99.94	-94.00	-97.38	-89.15	-87.75
0.25	-94.15	-108.39	-94.17	-92.95	-90.91	-89.61	-93.14	-90.98
0.50	-101.28	-94.08	-91.06	-92.80	-93.28	-87.07	-92.95	-93.52
1.00	-99.92	-107.01	-93.52	-94.04	-88.91	-87.96	-91.67	-97.97
1.50	-100.54	-104.22	-92.88	-102.92	-100.21	-106.43	-90.31	-90.26
2.00	-97.04	-111.33	-90.81	-93.71	-90.91	-95.19	-106.76	-91.31
2.50	-85.63	-97.71	-90.71	-99.12	-90.27	-90.01	-93.17	-87.27
3.00	-103.64	-91.98	-98.20	-88.12	-82.13	-87.16	-87.02	-99.37
3.50	-98.52	-90.53	-95.55	-92.21	-88.71	-90.47	-87.99	-90.48
4.00	-97.53	-89.27	-89.41	-85.62	-87.28	-98.10	-95.18	-89.83
4.50	-86.57	-94.27	-95.87	-105.17	-91.84	-89.03	-96.38	-96.67
5.00	-94.93	-91.09	-91.49	-86.66	-95.94	-97.98	-90.53	-91.37
5.50	-90.70	-104.86	-98.70	-103.44	-96.52	-90.23	-94.73	-90.85
6.00	-87.64	-86.25	-94.92	-89.95	-85.74	-89.00	-96.96	-89.20
6.50	-92.30	-92.99	-93.04	-86.27	-85.07	-101.40	-95.87	-92.86
7.00	-98.42	-103.54	-95.56	-88.68	-86.71	-92.21	-90.32	-86.84
7.50	-95.99	-93.86	-92.67	-90.20	-93.04	-97.40	-94.67	-96.69
8.00	-88.56	-98.19	-107.64	-93.25	-87.62	-84.72	-97.14	-95.29
8.50	-89.25	-89.02	-99.53	-92.57	-84.06	-92.43	-90.44	-92.45
9.25	-93.14	-89.69	-94.26	-92.02	-87.58	-90.96	-101.48	-90.98
10.00	-93.18	-88.18	-98.28	-86.93	-84.95	-95.60	-92.16	-89.15
10.50	-92.41	-88.49	-87.72	-98.92	-93.69	-87.81	-93.40	-88.11
11.00	-94.36	-97.41	-89.71	-94.81	-84.40	-90.73	-95.70	-90.19
11.50	-94.62	-99.33	-99.66	-84.49	-98.62	-96.06	-85.43	-90.55
12.00	-92.89	-85.98	-92.09	-88.70	-99.14	-95.07	-94.26	-94.91
12.50	-90.48	-92.64	-89.80	-90.57	-92.80	-100.04	-89.94	-91.44
13.00	-85.63	-88.54	-92.76	-95.13	-89.76	-94.85	-99.70	-102.31
13.50	-94.88	-90.87	-92.13	-89.34	-87.20	-91.21	-83.45	-93.91
14.00	-84.32	-94.64	-87.96	-92.72	-91.32	-93.68	-85.39	-85.86
14.50	-86.98	-93.16	-87.63	-84.01	-88.71	-100.45	-85.93	-86.73
15.00	-83.23	-87.01	-86.64	-90.95	-82.01	-79.93	-81.77	-81.20
15.50	-86.47	-89.29	-81.43	-85.08	-81.35	-80.03	-83.05	-82.87
16.00	-90.42	-87.13	-89.71	-81.80	-89.12	-79.81	-83.94	-92.75
16.50	-91.63	-89.02	-85.29	-83.68	-84.57	-79.47	-78.03	-86.68
17.00	-88.40	-87.77	-82.24	-73.95	-79.58	-79.01	-75.45	-90.92
17.50	-88.87	-87.16	-93.50	-74.19	-68.62	-81.22	-76.40	-91.95
18.00	-92.02	-85.15	-82.52	-86.17	-61.76	-79.36	-71.20	-97.20
18.50	-81.03	-79.29	-82.60	-68.17	-69.62	-69.05	-66.11	-79.17
19.00	-84.56	-80.62	-88.06	-75.45	-73.92	-74.73	-71.12	-85.22
19.50	-84.69	-96.16	-86.21	-84.30	-91.28	-77.77	-83.34	-91.29
20.00	-87.33	-91.58	-81.95	-76.46	-82.92	-74.26	-91.12	-83.04

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