

SP4T Solid-State Switch

RCS-1SP4T-A673

Typical Performance Data

Test Conditions: @ Temperature = -10°C, Pin = 5 dBm.

Freq. (GHz)	Insertion Loss (dB)			
	COM-1	COM-2	COM-3	COM-4
0.10	-1.43	-1.42	-1.44	-1.44
0.50	-1.59	-1.58	-1.60	-1.60
1.00	-1.79	-1.78	-1.80	-1.81
2.50	-2.01	-2.00	-2.03	-2.03
4.00	-2.22	-2.20	-2.23	-2.24
6.00	-2.45	-2.43	-2.46	-2.47
8.00	-2.53	-2.50	-2.54	-2.54
10.00	-2.75	-2.72	-2.75	-2.76
12.00	-2.96	-2.93	-2.93	-2.96
14.00	-3.19	-3.16	-3.16	-3.19
16.00	-3.52	-3.48	-3.51	-3.51
18.00	-3.73	-3.68	-3.68	-3.69
20.00	-4.04	-3.98	-4.01	-4.02
22.00	-4.15	-4.09	-4.17	-4.16
24.00	-4.50	-4.42	-4.56	-4.51
26.00	-4.65	-4.59	-4.64	-4.65
28.00	-4.79	-4.72	-4.77	-4.82
30.00	-5.02	-4.92	-4.93	-5.00
32.00	-5.23	-5.11	-5.17	-5.26
34.00	-5.32	-5.22	-5.33	-5.38
36.00	-5.63	-5.59	-5.63	-5.68
38.00	-6.17	-6.14	-5.96	-6.04
40.00	-6.23	-6.21	-6.28	-6.26
41.50	-6.72	-6.76	-6.70	-6.75
43.00	-6.61	-6.61	-6.62	-6.67
44.50	-6.64	-6.58	-6.57	-6.60
46.00	-6.76	-6.70	-6.76	-6.79
47.50	-7.06	-6.95	-7.06	-7.08
49.00	-7.10	-7.03	-7.06	-7.07
50.50	-7.23	-7.15	-7.29	-7.23
52.00	-7.72	-7.66	-7.65	-7.64
53.50	-8.50	-8.48	-8.42	-8.48
55.00	-8.11	-8.07	-8.09	-8.15
56.50	-8.69	-8.67	-8.72	-8.78
58.00	-8.66	-8.55	-8.69	-8.67
59.50	-8.95	-8.79	-9.05	-8.97
61.00	-9.64	-9.62	-9.75	-9.70
62.50	-10.48	-10.50	-10.71	-10.52
64.00	-12.08	-12.15	-12.22	-12.28
65.50	-11.92	-11.90	-11.86	-11.80
67.00	-12.73	-12.58	-12.68	-12.59

SP4T Solid-State Switch

RCS-1SP4T-A673

Typical Performance Data

Test Conditions: @ Temperature = -10°C, Pin = 5 dBm.

Freq. (GHz)	Return Loss, Active ports (dB)					R. Loss, Internally terminated ports (dB)			
	COM	1	2	3	4	1	2	3	4
0.10	-17.13	-17.41	-17.46	-17.29	-17.29	-34.58	-34.47	-36.74	-36.61
0.50	-17.63	-17.53	-17.61	-17.54	-17.49	-37.09	-36.79	-39.80	-39.60
1.00	-19.78	-19.03	-19.13	-19.33	-19.17	-39.60	-39.10	-42.96	-41.80
2.50	-26.04	-23.25	-23.67	-23.92	-23.96	-30.82	-30.90	-31.55	-30.15
4.00	-19.35	-15.91	-15.81	-16.11	-15.73	-25.34	-25.05	-24.95	-23.93
6.00	-24.51	-22.97	-23.00	-21.03	-20.38	-23.87	-23.60	-22.68	-21.81
8.00	-17.48	-16.79	-17.06	-16.04	-16.26	-24.37	-24.55	-22.39	-22.08
10.00	-25.86	-35.88	-38.07	-28.41	-31.01	-28.72	-28.71	-23.97	-25.27
12.00	-22.80	-15.70	-15.46	-15.94	-15.30	-29.64	-34.56	-27.86	-31.56
14.00	-22.45	-19.85	-18.92	-21.38	-19.91	-24.46	-27.02	-33.56	-30.58
16.00	-17.70	-18.11	-18.11	-16.86	-17.86	-25.32	-26.74	-29.61	-26.11
18.00	-18.71	-17.86	-17.58	-18.84	-19.70	-31.69	-27.08	-26.94	-26.16
20.00	-13.90	-33.32	-28.87	-25.07	-25.80	-19.36	-18.97	-18.29	-19.44
22.00	-18.47	-24.21	-22.34	-18.30	-20.63	-19.54	-20.57	-17.69	-19.79
24.00	-18.24	-14.34	-14.64	-12.16	-13.32	-28.37	-29.99	-21.15	-25.10
26.00	-16.84	-14.99	-14.49	-13.88	-14.22	-21.80	-18.28	-20.00	-19.59
28.00	-14.21	-24.88	-23.62	-24.40	-20.56	-16.83	-16.45	-17.76	-15.79
30.00	-13.87	-19.85	-21.79	-24.82	-19.58	-14.54	-15.08	-15.50	-13.42
32.00	-18.77	-14.36	-15.87	-15.01	-13.23	-15.26	-15.13	-15.12	-13.72
34.00	-23.12	-16.80	-18.75	-15.38	-14.68	-30.76	-25.88	-23.50	-23.56
36.00	-15.17	-25.38	-22.17	-29.99	-23.65	-18.66	-17.47	-21.94	-18.34
38.00	-12.46	-15.27	-14.04	-24.62	-17.27	-14.54	-13.49	-14.95	-13.19
40.00	-20.59	-19.15	-16.75	-15.81	-15.88	-14.36	-13.03	-12.30	-12.20
41.50	-12.79	-11.85	-10.64	-11.13	-10.69	-12.03	-11.13	-10.62	-10.81
43.00	-27.28	-14.03	-12.94	-12.88	-12.38	-12.69	-11.96	-12.21	-12.04
44.50	-20.10	-19.01	-18.15	-17.87	-16.85	-18.53	-17.92	-20.00	-19.69
46.00	-14.70	-22.12	-22.17	-19.59	-20.41	-30.62	-27.87	-27.14	-25.47
47.50	-12.86	-16.34	-18.78	-14.83	-15.99	-17.08	-18.04	-16.06	-15.85
49.00	-14.19	-24.94	-25.09	-23.81	-25.78	-12.63	-14.04	-12.06	-12.59
50.50	-16.08	-17.87	-20.20	-14.07	-15.86	-11.01	-11.92	-9.75	-10.70
52.00	-14.36	-11.98	-12.29	-11.73	-12.10	-10.78	-11.01	-8.96	-9.68
53.50	-9.90	-8.70	-8.53	-8.65	-8.51	-13.19	-12.84	-11.15	-11.26
55.00	-14.42	-12.01	-11.51	-11.91	-11.48	-19.47	-18.30	-17.66	-16.66
56.50	-8.87	-12.03	-11.50	-10.88	-10.79	-16.24	-16.52	-13.81	-14.48
58.00	-11.25	-13.90	-14.04	-12.11	-13.09	-11.67	-12.20	-9.58	-10.48
59.50	-10.21	-14.73	-15.71	-11.18	-12.88	-9.57	-9.97	-7.54	-8.61
61.00	-7.63	-21.50	-23.16	-14.93	-18.37	-10.43	-10.61	-7.66	-9.22
62.50	-5.89	-16.32	-16.44	-11.10	-13.26	-16.19	-16.26	-10.31	-13.14
64.00	-4.86	-6.97	-7.13	-7.18	-6.95	-15.59	-15.87	-16.68	-16.80
65.50	-8.32	-6.26	-6.39	-6.43	-6.53	-7.26	-7.50	-8.33	-8.05
67.00	-17.21	-5.34	-5.50	-5.08	-5.33	-4.80	-5.12	-4.71	-4.94

SP4T Solid-State Switch

RCS-1SP4T-A673

Typical Performance Data

Test Conditions: @ Temperature = -10°C, Pin = 5 dBm.

Freq. (GHz)	Isolation, Active states (dB)				Isolation, Disconnected states (dB)			
	COM-1	COM-2	2-3	3-4	COM-1	COM-2	COM-3	COM-4
0.10	-94.20	-106.40	-106.40	-98.24	-106.09	-104.90	-117.53	-106.99
0.50	-80.13	-118.98	-103.96	-84.72	-107.42	-108.04	-102.99	-102.35
1.00	-74.16	-112.36	-97.19	-79.64	-106.18	-102.99	-107.43	-101.59
2.50	-67.23	-100.64	-106.92	-72.85	-98.56	-110.79	-103.48	-100.13
4.00	-64.25	-107.82	-105.07	-68.29	-100.29	-113.00	-100.25	-109.81
6.00	-62.08	-103.07	-118.26	-68.35	-105.21	-110.86	-109.91	-109.26
8.00	-60.98	-105.02	-104.31	-65.76	-103.32	-105.01	-105.84	-102.49
10.00	-59.81	-109.50	-105.06	-67.81	-108.97	-107.37	-99.86	-114.63
12.00	-57.05	-101.11	-98.85	-59.34	-106.59	-104.32	-113.16	-99.81
14.00	-53.88	-99.88	-108.42	-55.12	-97.03	-102.68	-99.37	-111.38
16.00	-51.67	-89.75	-92.48	-51.45	-100.84	-86.20	-91.26	-105.83
18.00	-53.35	-79.76	-83.33	-51.28	-87.14	-74.01	-85.06	-82.15
20.00	-52.05	-77.07	-76.85	-51.26	-93.20	-74.90	-84.72	-85.95
22.00	-54.79	-76.41	-77.73	-49.65	-107.62	-90.33	-91.62	-97.96
24.00	-55.41	-79.98	-79.83	-48.90	-93.52	-79.69	-86.17	-88.20
26.00	-55.66	-74.32	-83.17	-48.66	-81.66	-72.42	-76.24	-73.30
28.00	-56.32	-79.77	-82.75	-48.57	-83.61	-74.19	-77.60	-85.90
30.00	-51.08	-78.49	-82.26	-48.44	-85.35	-75.70	-86.68	-80.92
32.00	-50.26	-78.76	-88.06	-46.96	-84.52	-85.86	-87.24	-84.85
34.00	-47.42	-85.23	-77.56	-48.68	-86.86	-93.14	-101.70	-91.11
36.00	-48.13	-79.31	-89.63	-48.25	-81.58	-81.68	-82.21	-81.43
38.00	-48.51	-75.45	-83.95	-46.25	-80.70	-72.09	-74.09	-94.97
40.00	-50.11	-79.22	-79.93	-46.00	-80.58	-75.96	-66.64	-81.59
41.50	-50.52	-74.68	-79.18	-43.95	-76.89	-66.06	-68.02	-73.27
43.00	-50.18	-82.80	-82.72	-45.54	-84.18	-77.23	-76.13	-85.48
44.50	-49.70	-77.99	-86.53	-47.81	-84.07	-86.77	-80.37	-82.28
46.00	-48.62	-71.11	-78.30	-48.17	-86.98	-74.37	-74.65	-74.24
47.50	-46.68	-79.04	-82.18	-51.80	-81.29	-77.04	-70.68	-74.07
49.00	-47.01	-68.99	-78.79	-49.67	-73.61	-63.80	-69.47	-75.98
50.50	-48.61	-64.84	-70.10	-51.96	-76.68	-59.92	-61.47	-76.36
52.00	-49.06	-73.58	-74.60	-53.75	-72.44	-66.08	-70.16	-78.64
53.50	-46.66	-71.95	-79.29	-55.70	-84.58	-71.86	-73.29	-81.49
55.00	-45.34	-75.79	-71.63	-48.03	-78.33	-79.96	-79.57	-77.96
56.50	-46.97	-67.61	-70.53	-48.55	-77.30	-70.01	-68.32	-92.19
58.00	-47.52	-66.83	-71.20	-45.28	-89.17	-63.61	-64.91	-69.74
59.50	-47.28	-61.41	-73.96	-45.71	-84.84	-58.03	-72.18	-69.71
61.00	-46.06	-58.05	-69.33	-42.44	-76.14	-57.82	-63.92	-75.20
62.50	-44.93	-65.39	-72.49	-44.21	-83.61	-65.23	-77.37	-69.96
64.00	-46.19	-65.35	-66.13	-40.96	-86.76	-68.31	-70.23	-74.50
65.50	-46.59	-60.70	-58.46	-43.71	-77.11	-66.31	-63.78	-75.27
67.00	-47.74	-59.86	-62.90	-42.84	-76.84	-57.87	-56.81	-69.31

SP4T Solid-State Switch

RCS-1SP4T-A673

Typical Performance Data

Test Conditions: @ Temperature = +25°C, Pin = 5 dBm.

Freq. (GHz)	Insertion Loss (dB)			
	COM-1	COM-2	COM-3	COM-4
0.10	-1.54	-1.54	-1.57	-1.57
0.50	-1.72	-1.71	-1.74	-1.74
1.00	-1.94	-1.94	-1.97	-1.97
2.50	-2.19	-2.18	-2.21	-2.21
4.00	-2.39	-2.39	-2.42	-2.43
6.00	-2.65	-2.64	-2.68	-2.69
8.00	-2.72	-2.70	-2.74	-2.74
10.00	-2.97	-2.96	-2.99	-2.99
12.00	-3.19	-3.18	-3.18	-3.21
14.00	-3.45	-3.43	-3.43	-3.46
16.00	-3.80	-3.76	-3.80	-3.80
18.00	-4.01	-3.97	-3.98	-3.99
20.00	-4.34	-4.28	-4.33	-4.33
22.00	-4.47	-4.42	-4.51	-4.49
24.00	-4.84	-4.78	-4.92	-4.87
26.00	-4.97	-4.92	-4.98	-4.98
28.00	-5.15	-5.10	-5.16	-5.20
30.00	-5.39	-5.31	-5.33	-5.40
32.00	-5.61	-5.51	-5.59	-5.67
34.00	-5.73	-5.64	-5.77	-5.81
36.00	-6.04	-6.01	-6.07	-6.11
38.00	-6.61	-6.60	-6.45	-6.52
40.00	-6.69	-6.69	-6.78	-6.74
41.50	-7.21	-7.27	-7.21	-7.27
43.00	-7.09	-7.12	-7.12	-7.16
44.50	-7.15	-7.11	-7.11	-7.14
46.00	-7.25	-7.22	-7.28	-7.31
47.50	-7.58	-7.49	-7.60	-7.62
49.00	-7.65	-7.60	-7.63	-7.64
50.50	-7.77	-7.72	-7.83	-7.78
52.00	-8.26	-8.22	-8.20	-8.21
53.50	-8.99	-8.97	-8.92	-8.99
55.00	-8.79	-8.76	-8.79	-8.84
56.50	-9.25	-9.23	-9.30	-9.36
58.00	-9.15	-9.07	-9.21	-9.19
59.50	-9.54	-9.44	-9.69	-9.60
61.00	-10.37	-10.38	-10.54	-10.44
62.50	-11.18	-11.21	-11.40	-11.22
64.00	-12.80	-12.82	-12.91	-13.03
65.50	-12.54	-12.53	-12.46	-12.41
67.00	-13.48	-13.37	-13.45	-13.35

SP4T Solid-State Switch

RCS-1SP4T-A673

Typical Performance Data

Test Conditions: @ Temperature = +25°C, Pin = 5 dBm.

Freq. (GHz)	Return Loss, Active ports (dB)					R. Loss, Internally terminated ports (dB)			
	COM	1	2	3	4	1	2	3	4
0.10	-16.51	-16.78	-16.80	-16.63	-16.63	-35.26	-35.19	-37.56	-37.44
0.50	-17.08	-16.98	-17.03	-16.96	-16.92	-38.02	-37.71	-40.92	-40.79
1.00	-19.35	-18.63	-18.70	-18.88	-18.75	-40.03	-39.67	-43.78	-42.33
2.50	-25.32	-22.77	-23.14	-23.40	-23.44	-30.50	-30.56	-31.14	-29.85
4.00	-18.65	-15.40	-15.29	-15.54	-15.18	-25.14	-24.85	-24.73	-23.73
6.00	-23.84	-22.57	-22.62	-20.72	-20.04	-23.57	-23.32	-22.44	-21.54
8.00	-17.37	-16.54	-16.77	-15.85	-16.06	-24.55	-24.81	-22.57	-22.21
10.00	-25.57	-33.61	-35.25	-27.90	-30.13	-28.44	-28.44	-23.93	-25.08
12.00	-22.19	-15.42	-15.20	-15.58	-15.00	-30.30	-35.74	-28.76	-32.74
14.00	-21.95	-19.15	-18.35	-20.54	-19.22	-24.05	-26.30	-32.38	-29.17
16.00	-17.63	-18.12	-18.07	-16.85	-17.81	-25.58	-26.85	-29.53	-26.03
18.00	-19.31	-17.98	-17.71	-19.02	-19.83	-29.97	-25.78	-25.91	-25.16
20.00	-14.19	-34.46	-29.94	-26.14	-26.53	-19.72	-19.28	-18.75	-19.77
22.00	-18.32	-24.73	-22.42	-18.70	-20.83	-19.85	-21.12	-18.14	-20.06
24.00	-18.60	-14.78	-15.11	-12.52	-13.56	-32.17	-27.60	-22.00	-25.44
26.00	-18.49	-15.98	-15.40	-14.83	-15.04	-21.61	-17.89	-20.44	-19.54
28.00	-14.54	-27.29	-25.95	-25.84	-21.55	-17.39	-17.02	-18.22	-16.09
30.00	-14.05	-20.17	-22.32	-24.92	-19.55	-14.78	-15.45	-15.71	-13.55
32.00	-18.84	-14.83	-16.58	-15.54	-13.51	-16.07	-15.89	-16.00	-14.42
34.00	-23.12	-16.52	-18.60	-15.24	-14.44	-30.49	-25.51	-24.02	-23.75
36.00	-15.65	-25.53	-22.43	-29.08	-23.08	-18.22	-17.23	-21.63	-17.84
38.00	-12.67	-15.99	-14.82	-27.00	-17.95	-15.59	-14.48	-15.63	-13.77
40.00	-21.60	-18.43	-16.24	-15.40	-15.43	-13.84	-12.65	-11.83	-11.83
41.50	-13.21	-12.03	-10.79	-11.32	-10.78	-12.36	-11.34	-10.99	-11.09
43.00	-26.22	-14.62	-13.37	-13.63	-13.02	-13.42	-12.57	-13.10	-12.90
44.50	-19.53	-18.50	-17.57	-17.59	-16.46	-18.80	-18.21	-20.66	-20.17
46.00	-15.51	-23.83	-24.15	-21.01	-21.65	-29.95	-29.43	-24.66	-23.48
47.50	-13.29	-17.27	-19.87	-15.61	-16.43	-16.47	-17.27	-15.80	-15.26
49.00	-14.42	-24.23	-24.04	-24.17	-24.35	-13.06	-14.39	-12.43	-12.86
50.50	-18.13	-17.91	-19.82	-14.57	-15.96	-11.27	-12.16	-9.97	-10.81
52.00	-16.49	-12.51	-12.84	-12.62	-12.74	-11.70	-12.02	-9.77	-10.49
53.50	-10.33	-9.52	-9.39	-9.49	-9.32	-14.30	-14.06	-12.05	-12.32
55.00	-13.35	-11.99	-11.66	-12.05	-11.67	-19.07	-18.34	-17.69	-16.78
56.50	-9.75	-12.59	-12.29	-11.37	-11.18	-15.20	-15.66	-13.26	-13.66
58.00	-12.62	-15.62	-15.88	-13.20	-14.10	-12.36	-13.06	-10.03	-10.71
59.50	-10.76	-15.88	-16.72	-11.87	-13.89	-10.43	-10.79	-8.18	-9.44
61.00	-7.88	-20.33	-21.75	-14.01	-17.79	-10.14	-10.35	-7.56	-9.31
62.50	-6.04	-15.38	-15.91	-11.10	-13.01	-15.60	-15.91	-10.28	-12.97
64.00	-5.19	-6.82	-7.06	-7.07	-6.76	-13.65	-14.14	-16.16	-14.84
65.50	-8.96	-6.65	-6.88	-6.98	-7.04	-7.55	-7.92	-8.78	-8.34
67.00	-16.51	-5.96	-6.11	-5.69	-6.17	-5.47	-5.80	-5.35	-5.74

SP4T Solid-State Switch

RCS-1SP4T-A673

Typical Performance Data

Test Conditions: @ Temperature = +25°C, Pin = 5 dBm.

Freq. (GHz)	Isolation, Active states (dB)				Isolation, Disconnected states (dB)			
	COM-1	COM-2	2-3	3-4	COM-1	COM-2	COM-3	COM-4
0.10	-91.70	-107.89	-107.73	-98.84	-99.73	-107.57	-107.53	-102.38
0.50	-80.04	-106.20	-107.40	-83.46	-122.09	-120.05	-101.25	-107.57
1.00	-73.77	-110.86	-102.30	-78.90	-112.10	-115.21	-97.50	-113.01
2.50	-66.92	-100.65	-102.89	-71.47	-107.41	-101.29	-103.24	-100.36
4.00	-63.38	-105.24	-105.53	-67.29	-110.74	-102.23	-107.02	-101.61
6.00	-61.56	-105.89	-137.13	-66.97	-109.26	-108.13	-111.04	-98.35
8.00	-60.45	-107.11	-102.93	-64.29	-100.64	-99.18	-107.10	-101.71
10.00	-59.50	-106.68	-97.47	-66.52	-103.15	-98.16	-118.35	-101.32
12.00	-56.95	-99.16	-103.63	-58.80	-100.93	-105.88	-94.08	-101.69
14.00	-54.12	-119.21	-101.49	-54.74	-104.14	-119.45	-102.37	-98.26
16.00	-51.41	-88.58	-91.57	-51.21	-104.24	-85.08	-89.36	-99.07
18.00	-53.36	-78.39	-80.96	-51.01	-87.62	-73.83	-84.47	-81.08
20.00	-51.64	-76.57	-76.58	-51.07	-94.95	-74.36	-84.77	-84.45
22.00	-53.72	-76.80	-77.87	-49.47	-104.41	-90.51	-97.57	-96.15
24.00	-56.60	-80.85	-81.39	-48.45	-94.59	-80.53	-83.73	-84.81
26.00	-56.30	-76.31	-85.86	-48.28	-81.55	-72.76	-76.24	-73.16
28.00	-55.31	-78.33	-87.24	-48.28	-84.43	-74.01	-78.17	-90.17
30.00	-53.41	-80.53	-83.70	-48.11	-83.74	-76.31	-82.91	-85.16
32.00	-49.77	-84.76	-88.15	-47.28	-79.61	-85.16	-92.60	-88.98
34.00	-46.64	-81.40	-84.91	-49.81	-87.81	-86.37	-88.30	-87.64
36.00	-49.84	-83.87	-86.67	-49.52	-87.89	-81.42	-80.83	-94.34
38.00	-46.66	-78.72	-78.53	-47.18	-86.17	-75.43	-74.13	-79.41
40.00	-49.94	-75.76	-81.49	-46.73	-80.60	-86.33	-69.80	-79.54
41.50	-54.26	-77.95	-82.85	-44.02	-83.22	-71.54	-68.17	-74.51
43.00	-49.21	-74.89	-80.24	-45.34	-86.07	-78.27	-78.81	-79.14
44.50	-49.23	-81.86	-76.65	-47.21	-84.73	-78.20	-81.29	-87.48
46.00	-50.52	-71.57	-78.88	-49.00	-77.66	-73.97	-74.08	-83.22
47.50	-47.24	-87.43	-94.60	-54.87	-90.72	-80.83	-72.69	-74.69
49.00	-47.11	-69.92	-81.33	-49.90	-75.07	-64.90	-70.68	-78.12
50.50	-49.25	-66.42	-71.55	-54.14	-77.17	-60.49	-63.40	-75.56
52.00	-48.90	-80.74	-78.15	-55.60	-78.09	-74.02	-77.70	-86.14
53.50	-47.35	-70.97	-78.49	-56.05	-84.15	-73.22	-77.65	-76.82
55.00	-46.22	-81.37	-75.15	-48.96	-80.05	-84.50	-89.32	-87.27
56.50	-47.63	-68.36	-75.80	-48.73	-90.07	-67.01	-71.40	-77.63
58.00	-48.46	-68.35	-69.66	-45.34	-83.46	-65.86	-64.79	-66.18
59.50	-48.15	-63.02	-74.03	-45.63	-88.78	-59.86	-71.91	-69.16
61.00	-47.22	-64.78	-76.83	-42.81	-78.14	-62.70	-65.69	-72.76
62.50	-45.92	-68.48	-73.37	-43.29	-84.31	-68.06	-76.60	-72.29
64.00	-47.32	-66.85	-65.96	-41.43	-92.20	-68.32	-72.11	-71.26
65.50	-47.40	-59.68	-57.97	-43.51	-90.64	-66.56	-64.14	-73.67
67.00	-48.89	-61.39	-64.76	-42.55	-86.06	-59.71	-59.99	-70.92

SP4T Solid-State Switch

RCS-1SP4T-A673

Typical Performance Data

Test Conditions: @ Temperature = +60°C, Pin = 5 dBm.

Freq. (GHz)	Insertion Loss (dB)			
	COM-1	COM-2	COM-3	COM-4
0.10	-1.63	-1.64	-1.67	-1.67
0.50	-1.82	-1.83	-1.85	-1.86
1.00	-2.06	-2.07	-2.10	-2.11
2.50	-2.31	-2.32	-2.36	-2.37
4.00	-2.52	-2.54	-2.57	-2.59
6.00	-2.80	-2.81	-2.85	-2.87
8.00	-2.86	-2.86	-2.89	-2.91
10.00	-3.12	-3.13	-3.16	-3.17
12.00	-3.34	-3.35	-3.35	-3.39
14.00	-3.61	-3.61	-3.62	-3.66
16.00	-3.97	-3.96	-4.00	-4.01
18.00	-4.19	-4.18	-4.19	-4.21
20.00	-4.53	-4.50	-4.54	-4.56
22.00	-4.66	-4.64	-4.72	-4.73
24.00	-5.05	-5.01	-5.14	-5.12
26.00	-5.18	-5.16	-5.21	-5.24
28.00	-5.36	-5.33	-5.39	-5.45
30.00	-5.58	-5.54	-5.56	-5.64
32.00	-5.83	-5.76	-5.83	-5.93
34.00	-5.96	-5.90	-6.02	-6.08
36.00	-6.28	-6.29	-6.33	-6.38
38.00	-6.84	-6.86	-6.71	-6.80
40.00	-6.95	-6.98	-7.06	-7.05
41.50	-7.49	-7.58	-7.52	-7.59
43.00	-7.39	-7.45	-7.42	-7.50
44.50	-7.44	-7.45	-7.43	-7.49
46.00	-7.55	-7.56	-7.59	-7.66
47.50	-7.88	-7.84	-7.93	-7.96
49.00	-7.94	-7.94	-7.95	-7.99
50.50	-8.08	-8.07	-8.15	-8.13
52.00	-8.56	-8.55	-8.51	-8.57
53.50	-9.28	-9.29	-9.24	-9.36
55.00	-9.06	-9.07	-9.08	-9.17
56.50	-9.49	-9.51	-9.55	-9.64
58.00	-9.47	-9.43	-9.54	-9.56
59.50	-9.85	-9.81	-10.05	-9.97
61.00	-10.65	-10.70	-10.84	-10.78
62.50	-11.50	-11.58	-11.73	-11.59
64.00	-13.08	-13.12	-13.23	-13.37
65.50	-12.91	-12.96	-12.89	-12.85
67.00	-13.88	-13.80	-13.88	-13.78

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-Circuits' 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>



SP4T Solid-State Switch

RCS-1SP4T-A673

Typical Performance Data

Test Conditions: @ Temperature = +60°C, Pin = 5 dBm.

Freq. (GHz)	Return Loss, Active ports (dB)					R. Loss, Internally terminated ports (dB)			
	COM	1	2	3	4	1	2	3	4
0.10	-16.08	-16.31	-16.25	-16.10	-16.06	-36.22	-36.12	-38.61	-38.64
0.50	-16.70	-16.58	-16.56	-16.49	-16.42	-39.58	-39.18	-43.05	-42.95
1.00	-19.09	-18.38	-18.40	-18.55	-18.41	-41.60	-41.39	-46.24	-44.07
2.50	-24.70	-22.38	-22.61	-22.90	-22.91	-30.42	-30.57	-31.25	-29.93
4.00	-18.17	-15.03	-14.88	-15.14	-14.75	-24.92	-24.67	-24.65	-23.60
6.00	-23.55	-22.27	-22.38	-20.46	-19.79	-23.30	-23.19	-22.28	-21.38
8.00	-17.27	-16.42	-16.58	-15.73	-15.89	-24.54	-24.90	-22.53	-22.16
10.00	-25.41	-33.12	-34.27	-28.25	-30.40	-28.72	-28.71	-24.13	-25.19
12.00	-22.20	-15.34	-15.13	-15.52	-14.93	-29.69	-34.40	-28.37	-32.14
14.00	-21.94	-19.05	-18.17	-20.23	-19.01	-24.36	-26.51	-33.25	-29.48
16.00	-17.31	-18.12	-18.06	-16.84	-17.66	-25.53	-26.41	-28.93	-25.72
18.00	-19.00	-17.71	-17.49	-18.63	-19.28	-29.11	-25.31	-25.34	-24.60
20.00	-14.06	-34.25	-29.67	-25.99	-26.28	-19.51	-19.14	-18.42	-19.19
22.00	-18.60	-25.40	-22.65	-18.98	-20.83	-20.99	-22.42	-18.75	-20.78
24.00	-18.56	-15.29	-15.68	-12.85	-13.89	-36.47	-26.80	-22.61	-25.79
26.00	-18.74	-16.00	-15.50	-14.96	-15.03	-21.00	-17.46	-19.96	-18.92
28.00	-14.96	-28.90	-27.01	-28.11	-22.50	-17.49	-17.10	-18.56	-16.17
30.00	-14.63	-21.64	-24.48	-27.78	-20.90	-15.57	-16.39	-16.56	-14.20
32.00	-19.13	-15.41	-17.50	-16.20	-13.97	-16.92	-16.64	-16.70	-15.15
34.00	-23.86	-17.09	-19.45	-15.65	-14.87	-31.40	-24.61	-25.12	-25.63
36.00	-16.66	-26.76	-22.91	-29.96	-24.88	-18.78	-17.64	-22.48	-18.33
38.00	-13.21	-16.63	-15.41	-29.23	-18.72	-16.02	-15.03	-15.80	-14.04
40.00	-21.01	-18.78	-16.84	-15.54	-15.70	-14.08	-13.05	-11.92	-12.03
41.50	-13.03	-11.99	-10.87	-11.21	-10.72	-12.31	-11.40	-10.93	-11.03
43.00	-24.54	-14.55	-13.30	-13.52	-12.85	-13.59	-12.70	-13.24	-12.99
44.50	-18.79	-18.57	-17.49	-17.43	-16.25	-19.70	-18.77	-21.57	-20.75
46.00	-15.33	-24.28	-24.32	-21.46	-22.06	-29.31	-29.93	-23.77	-22.86
47.50	-13.41	-17.45	-19.99	-15.69	-16.49	-16.48	-17.42	-15.66	-15.22
49.00	-14.76	-22.71	-23.03	-22.92	-22.36	-13.03	-14.27	-12.36	-12.65
50.50	-17.92	-17.98	-19.73	-15.06	-15.94	-11.71	-12.57	-10.40	-11.02
52.00	-16.51	-12.88	-13.24	-12.92	-12.85	-12.24	-12.59	-10.15	-10.80
53.50	-10.29	-9.84	-9.71	-9.71	-9.38	-14.86	-14.63	-12.51	-12.60
55.00	-13.58	-12.08	-11.76	-12.16	-11.58	-19.32	-18.64	-18.05	-16.74
56.50	-10.37	-13.35	-13.17	-12.09	-11.82	-15.36	-15.81	-13.31	-13.41
58.00	-13.18	-16.19	-16.63	-13.77	-14.53	-12.85	-13.60	-10.42	-10.90
59.50	-10.85	-16.16	-17.01	-12.22	-14.20	-10.79	-11.22	-8.56	-9.81
61.00	-7.81	-19.76	-21.56	-13.88	-17.43	-10.31	-10.61	-7.73	-9.55
62.50	-6.07	-15.81	-16.65	-11.57	-13.48	-16.31	-16.81	-10.72	-13.68
64.00	-5.11	-7.30	-7.60	-7.54	-7.16	-14.10	-14.61	-17.04	-15.05
65.50	-8.84	-7.09	-7.40	-7.37	-7.53	-8.10	-8.56	-9.29	-8.82
67.00	-16.21	-5.98	-6.18	-5.73	-6.37	-5.56	-5.91	-5.43	-5.96

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-Circuits' 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>



SP4T Solid-State Switch

RCS-1SP4T-A673

Typical Performance Data

Test Conditions: @ Temperature = +60°C, Pin = 5 dBm.

Freq. (GHz)	Isolation, Active states (dB)				Isolation, Disconnected states (dB)			
	COM-1	COM-2	2-3	3-4	COM-1	COM-2	COM-3	COM-4
0.10	-95.06	-108.86	-113.86	-96.67	-115.22	-101.37	-110.50	-102.83
0.50	-79.21	-104.73	-114.93	-83.43	-110.02	-106.36	-107.50	-101.61
1.00	-73.48	-98.85	-110.27	-77.90	-105.93	-107.96	-96.42	-105.48
2.50	-66.39	-102.63	-109.56	-70.90	-107.44	-95.49	-110.17	-111.23
4.00	-63.29	-101.50	-107.23	-66.49	-108.90	-116.76	-134.16	-100.33
6.00	-61.08	-109.57	-113.81	-66.39	-106.23	-111.77	-122.43	-110.12
8.00	-59.77	-100.21	-102.78	-63.34	-104.30	-111.02	-97.92	-102.01
10.00	-59.06	-102.69	-107.21	-65.47	-98.86	-99.96	-97.29	-104.93
12.00	-56.86	-98.25	-102.01	-58.53	-107.96	-102.66	-107.48	-102.40
14.00	-54.00	-100.61	-100.41	-54.82	-101.99	-100.02	-106.94	-98.17
16.00	-51.51	-88.68	-92.51	-51.10	-100.23	-84.84	-89.77	-101.34
18.00	-52.95	-77.75	-83.17	-50.86	-85.69	-73.20	-84.32	-82.61
20.00	-51.63	-77.38	-77.89	-50.87	-92.14	-74.25	-83.85	-85.01
22.00	-53.87	-77.14	-78.81	-49.40	-101.73	-91.76	-96.79	-96.30
24.00	-56.42	-80.80	-81.75	-48.25	-95.17	-81.04	-83.86	-85.46
26.00	-57.26	-76.33	-86.45	-48.03	-83.01	-73.90	-76.40	-73.02
28.00	-56.77	-78.88	-83.05	-48.08	-88.46	-75.17	-80.13	-82.65
30.00	-54.10	-80.79	-83.90	-47.76	-86.87	-77.31	-81.20	-88.07
32.00	-50.06	-84.26	-98.33	-47.44	-84.99	-89.42	-93.68	-82.41
34.00	-46.82	-84.74	-82.56	-50.09	-91.30	-86.25	-88.26	-97.14
36.00	-50.12	-83.60	-91.99	-49.40	-87.10	-78.94	-82.54	-81.72
38.00	-46.57	-84.66	-80.12	-46.41	-88.18	-74.87	-72.10	-79.15
40.00	-51.79	-82.48	-104.01	-45.66	-78.52	-85.02	-77.25	-76.84
41.50	-51.57	-75.88	-92.17	-44.70	-81.73	-75.83	-71.47	-80.84
43.00	-51.46	-79.85	-88.44	-46.65	-82.55	-77.95	-97.03	-78.46
44.50	-51.23	-84.01	-76.91	-48.28	-87.04	-82.02	-84.95	-78.26
46.00	-49.92	-72.63	-80.88	-49.16	-88.64	-74.69	-76.50	-78.49
47.50	-47.81	-77.28	-87.56	-55.80	-81.50	-81.59	-72.00	-76.38
49.00	-47.53	-70.12	-81.87	-51.60	-95.51	-65.86	-71.69	-80.96
50.50	-48.87	-66.97	-72.26	-54.63	-74.36	-62.01	-66.16	-84.12
52.00	-48.96	-78.23	-80.79	-55.45	-76.38	-85.26	-76.86	-97.67
53.50	-47.45	-71.63	-79.20	-55.80	-89.43	-75.92	-75.09	-81.27
55.00	-46.47	-76.48	-73.06	-48.68	-85.24	-78.67	-86.68	-82.37
56.50	-48.14	-67.03	-74.22	-48.52	-73.70	-66.39	-74.67	-77.31
58.00	-49.18	-69.00	-71.12	-45.13	-79.00	-69.24	-68.93	-67.37
59.50	-48.71	-64.01	-71.59	-44.90	-86.41	-62.30	-67.47	-69.24
61.00	-47.91	-67.35	-76.66	-42.51	-83.04	-65.72	-68.75	-74.88
62.50	-46.84	-68.97	-73.03	-42.68	-81.75	-70.75	-75.64	-74.96
64.00	-47.91	-68.97	-65.07	-41.37	-92.94	-68.47	-69.43	-73.96
65.50	-48.34	-58.43	-58.60	-43.02	-78.14	-64.56	-62.59	-74.83
67.00	-49.53	-63.89	-65.49	-42.18	-91.37	-60.90	-62.27	-74.52

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-Circuits' 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>

