

# SP2T Solid-State Switch

eSB-1SP2T-A673

## Typical Performance Data

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

Freq. (GHz)	Insertion Loss (dB)		Isolation, Active states (dB)			Isolation, Disconnected states (dB)		
	COM-RF1	COM-RF2	COM-RF1	COM-RF2	RF1-RF2	COM-RF1	COM-RF2	RF1-RF2
0.10	-0.78	-0.78	-93.05	-93.09	-99.57	-90.84	-91.07	-106.13
0.25	-0.83	-0.83	-87.03	-88.10	-92.84	-83.24	-84.30	-95.81
0.50	-0.87	-0.87	-80.97	-80.70	-84.01	-77.52	-76.61	-89.97
2.25	-1.02	-1.02	-68.17	-68.57	-72.56	-64.41	-64.55	-80.77
4.00	-1.17	-1.16	-64.44	-64.78	-69.14	-60.54	-60.62	-74.94
5.75	-1.27	-1.25	-62.94	-63.22	-68.04	-58.92	-58.93	-70.23
7.50	-1.35	-1.34	-62.75	-62.88	-69.91	-58.66	-58.65	-67.90
9.25	-1.44	-1.44	-63.38	-63.67	-75.64	-59.40	-59.38	-64.52
11.00	-1.54	-1.56	-62.85	-63.33	-69.08	-60.34	-60.33	-61.97
12.75	-1.64	-1.65	-59.02	-59.60	-61.98	-58.92	-59.31	-59.88
14.50	-1.75	-1.75	-54.36	-54.73	-55.35	-54.79	-54.92	-57.17
16.25	-1.92	-1.94	-50.10	-50.14	-52.56	-51.14	-51.09	-55.26
18.00	-2.01	-2.04	-50.66	-50.63	-51.64	-49.96	-49.87	-55.69
19.75	-2.12	-2.18	-48.63	-48.12	-48.70	-48.00	-47.83	-55.01
21.50	-2.15	-2.21	-49.07	-48.67	-49.50	-47.58	-47.33	-55.32
23.25	-2.22	-2.31	-48.73	-48.47	-48.11	-46.76	-46.49	-54.72
25.00	-2.35	-2.44	-48.50	-47.93	-47.54	-46.78	-46.48	-54.39
26.75	-2.47	-2.52	-50.62	-50.00	-49.13	-46.96	-46.80	-53.89
28.50	-2.52	-2.54	-51.27	-49.82	-49.66	-48.22	-47.56	-54.10
30.25	-2.51	-2.57	-52.61	-50.97	-50.44	-48.94	-47.97	-54.23
32.00	-2.56	-2.67	-53.74	-51.72	-51.68	-48.68	-49.95	-53.21
33.75	-2.72	-2.89	-56.56	-52.91	-49.07	-49.85	-50.11	-52.30
35.50	-2.94	-3.15	-59.42	-56.91	-46.50	-48.16	-48.66	-51.36
37.25	-3.03	-3.19	-58.76	-54.63	-45.87	-48.71	-48.18	-52.08
39.00	-2.96	-3.16	-55.34	-53.23	-47.09	-49.15	-48.13	-53.13
40.75	-2.94	-3.24	-53.88	-51.92	-47.56	-47.02	-47.73	-53.31
42.50	-3.10	-3.40	-50.85	-53.27	-46.40	-45.62	-46.31	-53.62
44.25	-3.17	-3.44	-51.37	-50.04	-46.98	-46.36	-46.67	-52.99
46.00	-3.65	-3.82	-48.28	-47.66	-45.72	-45.25	-45.95	-52.16
47.75	-3.79	-3.87	-49.00	-47.92	-44.40	-45.71	-45.41	-50.77
49.50	-3.49	-3.54	-47.95	-47.85	-44.39	-46.03	-46.10	-49.12
51.25	-3.55	-3.58	-52.16	-50.87	-44.43	-46.14	-44.57	-48.42
53.00	-3.89	-3.86	-55.15	-58.18	-45.30	-46.59	-45.61	-48.97
54.75	-4.31	-4.27	-53.13	-51.48	-47.78	-49.64	-48.16	-48.88
56.50	-4.10	-4.20	-46.02	-46.30	-55.97	-47.02	-48.22	-52.03
58.25	-4.23	-4.31	-43.98	-42.71	-57.56	-43.33	-43.12	-52.85
60.00	-4.73	-4.74	-42.84	-42.35	-48.55	-40.18	-40.98	-57.03
61.75	-4.36	-4.32	-41.10	-40.63	-45.31	-40.43	-41.44	-53.91
63.50	-4.30	-4.26	-39.69	-39.55	-42.35	-43.47	-43.12	-51.47
65.25	-5.57	-5.43	-42.93	-43.10	-40.88	-48.65	-47.95	-55.72
67.00	-7.25	-7.36	-42.88	-41.71	-42.80	-47.93	-45.41	-53.13

## SP2T Solid-State Switch

eSB-1SP2T-A673

## Typical Performance Data

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

Freq. (GHz)	Return Loss, Active ports (dB)			RL, Terminated ports (dB)	
	COM	RF1	RF2	RF1	RF2
0.10	-21.83	-22.00	-21.98	-49.39	-52.36
0.25	-21.38	-21.64	-21.58	-44.53	-44.03
0.50	-21.18	-21.33	-21.25	-41.52	-41.08
2.25	-22.89	-21.42	-21.32	-39.40	-41.89
4.00	-25.48	-18.86	-19.39	-33.48	-36.02
5.75	-25.79	-19.51	-19.80	-30.54	-32.34
7.50	-21.23	-22.15	-22.05	-31.49	-33.17
9.25	-19.70	-22.23	-21.42	-37.67	-43.75
11.00	-21.07	-19.65	-18.33	-40.96	-31.63
12.75	-20.22	-18.56	-18.10	-30.63	-26.37
14.50	-17.70	-21.70	-22.87	-28.53	-26.21
16.25	-15.41	-21.05	-21.31	-32.27	-33.17
18.00	-22.02	-21.79	-21.85	-25.79	-25.53
19.75	-20.98	-17.18	-16.89	-20.44	-20.10
21.50	-23.95	-20.11	-18.86	-20.68	-20.20
23.25	-35.48	-23.29	-22.67	-22.83	-22.13
25.00	-23.77	-19.30	-20.02	-28.05	-27.52
26.75	-20.74	-17.72	-19.23	-31.16	-25.44
28.50	-21.36	-18.62	-22.04	-25.75	-22.23
30.25	-24.12	-27.58	-30.18	-18.05	-17.29
32.00	-20.25	-29.76	-29.60	-18.14	-16.95
33.75	-15.77	-23.99	-21.09	-16.60	-15.43
35.50	-13.34	-14.88	-14.60	-12.81	-12.78
37.25	-15.08	-14.15	-15.31	-12.66	-13.52
39.00	-19.66	-15.41	-18.80	-17.71	-19.74
40.75	-21.74	-24.68	-39.06	-22.97	-19.27
42.50	-17.86	-18.63	-18.13	-16.42	-14.93
44.25	-18.45	-20.56	-18.36	-15.95	-14.60
46.00	-11.32	-11.45	-11.41	-10.92	-10.93
47.75	-11.04	-10.57	-10.69	-10.01	-10.19
49.50	-21.47	-16.95	-17.65	-11.95	-12.53
51.25	-25.20	-18.37	-20.55	-14.50	-16.27
53.00	-16.55	-13.79	-16.83	-17.35	-18.06
54.75	-9.91	-10.82	-12.48	-24.48	-29.15
56.50	-10.60	-19.99	-17.46	-14.36	-15.80
58.25	-9.80	-15.83	-14.30	-13.75	-15.00
60.00	-7.91	-10.95	-10.72	-14.02	-15.46
61.75	-11.90	-13.59	-13.56	-22.10	-25.13
63.50	-18.88	-17.19	-18.27	-28.13	-26.80
65.25	-8.84	-8.63	-9.18	-11.08	-12.06
67.00	-4.60	-5.93	-5.56	-6.98	-6.98

# SP2T Solid-State Switch

eSB-1SP2T-A673

## Typical Performance Data

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

Freq. (GHz)	Insertion Loss (dB)		Isolation, Active states (dB)			Isolation, Disconnected states (dB)		
	COM-RF1	COM-RF2	COM-RF1	COM-RF2	RF1-RF2	COM-RF1	COM-RF2	RF1-RF2
0.10	-0.84	-0.86	-93.10	-96.61	-94.72	-91.63	-93.21	-99.85
0.25	-0.89	-0.90	-86.56	-86.26	-93.03	-82.51	-83.82	-96.42
0.50	-0.93	-0.96	-81.18	-80.59	-87.62	-75.99	-76.67	-94.53
2.25	-1.11	-1.16	-67.72	-68.05	-72.55	-63.73	-64.03	-81.98
4.00	-1.27	-1.29	-64.07	-64.20	-68.28	-59.87	-60.15	-74.50
5.75	-1.37	-1.38	-62.33	-62.45	-67.60	-58.27	-58.37	-70.88
7.50	-1.44	-1.47	-61.98	-62.04	-68.85	-57.74	-57.89	-67.62
9.25	-1.54	-1.58	-62.47	-62.80	-73.17	-58.22	-58.29	-64.69
11.00	-1.65	-1.69	-62.34	-62.76	-70.04	-59.06	-59.18	-62.03
12.75	-1.77	-1.79	-59.23	-59.61	-62.62	-58.51	-58.61	-60.08
14.50	-1.87	-1.90	-54.68	-54.98	-55.80	-54.90	-54.73	-57.38
16.25	-2.01	-2.09	-50.37	-50.25	-52.65	-51.15	-50.98	-55.51
18.00	-2.13	-2.23	-50.49	-50.19	-51.38	-49.70	-49.50	-55.43
19.75	-2.21	-2.35	-48.72	-48.12	-48.90	-48.14	-47.76	-55.36
21.50	-2.27	-2.39	-49.10	-48.64	-49.72	-47.66	-47.36	-55.62
23.25	-2.41	-2.50	-49.25	-48.94	-48.64	-47.14	-46.94	-54.96
25.00	-2.55	-2.65	-48.59	-48.69	-47.99	-46.80	-46.75	-54.41
26.75	-2.65	-2.76	-50.37	-50.30	-49.69	-46.89	-46.90	-54.22
28.50	-2.69	-2.76	-49.89	-49.75	-49.73	-47.17	-47.86	-54.14
30.25	-2.70	-2.78	-51.79	-51.32	-49.93	-49.05	-48.16	-53.27
32.00	-2.73	-2.87	-52.14	-51.08	-51.11	-48.59	-48.76	-52.75
33.75	-2.88	-3.04	-54.41	-51.86	-48.68	-48.33	-48.79	-51.05
35.50	-3.01	-3.27	-55.11	-55.42	-46.46	-48.14	-47.86	-50.90
37.25	-3.09	-3.36	-59.30	-54.99	-45.86	-48.34	-47.46	-51.33
39.00	-3.10	-3.40	-56.35	-53.83	-46.47	-47.97	-47.45	-51.88
40.75	-3.14	-3.47	-53.51	-51.70	-47.47	-47.24	-47.57	-53.13
42.50	-3.33	-3.61	-50.58	-51.94	-46.24	-46.06	-45.89	-52.88
44.25	-3.49	-3.78	-50.52	-50.35	-46.79	-46.03	-46.28	-53.21
46.00	-3.82	-4.01	-47.97	-47.36	-45.73	-44.84	-45.33	-51.81
47.75	-3.85	-4.00	-47.19	-47.27	-43.53	-44.47	-44.79	-50.17
49.50	-3.65	-3.77	-46.27	-45.46	-43.43	-45.05	-44.71	-48.31
51.25	-3.76	-3.87	-49.71	-48.65	-43.48	-45.93	-44.49	-47.81
53.00	-4.03	-4.14	-56.28	-58.13	-43.98	-46.23	-45.11	-48.15
54.75	-4.30	-4.40	-54.26	-52.57	-45.88	-50.10	-47.41	-47.79
56.50	-4.35	-4.52	-45.47	-46.99	-53.18	-46.06	-47.57	-50.54
58.25	-4.56	-4.68	-43.48	-42.80	-58.29	-42.73	-43.11	-51.80
60.00	-4.68	-4.67	-43.19	-41.81	-47.00	-40.46	-41.36	-58.58
61.75	-4.44	-4.50	-41.62	-41.08	-44.25	-41.04	-41.89	-55.74
63.50	-4.55	-4.60	-39.98	-40.18	-41.52	-42.80	-43.75	-53.42
65.25	-5.57	-5.65	-43.42	-43.56	-40.36	-48.82	-49.29	-55.35
67.00	-6.60	-6.67	-42.60	-41.16	-41.97	-47.88	-45.23	-52.55

# SP2T Solid-State Switch

eSB-1SP2T-A673

## Typical Performance Data

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

Freq. (GHz)	Return Loss, Active ports (dB)			RL, Terminated ports (dB)	
	COM	RF1	RF2	RF1	RF2
0.10	-21.32	-21.43	-21.38	-50.29	-49.57
0.25	-21.03	-21.10	-21.00	-45.05	-41.84
0.50	-20.69	-20.89	-20.78	-41.41	-38.40
2.25	-22.50	-20.82	-21.27	-43.20	-38.49
4.00	-25.30	-18.38	-19.33	-32.25	-37.56
5.75	-25.10	-19.61	-19.82	-28.34	-31.61
7.50	-20.19	-24.49	-22.92	-27.89	-30.52
9.25	-18.79	-22.92	-21.89	-34.09	-42.61
11.00	-20.78	-19.36	-18.63	-37.18	-31.62
12.75	-21.18	-17.13	-17.50	-28.74	-25.92
14.50	-19.13	-20.74	-22.47	-26.63	-25.15
16.25	-16.97	-23.11	-22.49	-35.08	-34.71
18.00	-21.43	-23.38	-22.31	-30.49	-29.08
19.75	-23.82	-19.13	-17.46	-22.10	-21.30
21.50	-31.42	-25.10	-20.29	-21.81	-20.49
23.25	-28.91	-21.18	-23.40	-28.64	-24.50
25.00	-25.14	-18.48	-20.63	-32.40	-26.43
26.75	-23.06	-18.21	-19.38	-29.39	-28.27
28.50	-31.90	-21.42	-23.18	-20.39	-19.68
30.25	-21.54	-26.60	-27.19	-16.72	-16.77
32.00	-20.26	-28.08	-33.24	-17.03	-16.81
33.75	-17.25	-23.06	-22.17	-17.93	-15.33
35.50	-15.87	-17.98	-16.20	-14.86	-13.49
37.25	-17.72	-15.88	-15.87	-15.09	-14.16
39.00	-19.99	-17.72	-19.71	-24.82	-23.11
40.75	-19.17	-24.60	-24.98	-18.30	-17.81
42.50	-16.94	-17.32	-18.64	-15.25	-15.37
44.25	-15.23	-15.70	-14.95	-14.19	-13.38
46.00	-11.77	-12.21	-11.98	-11.97	-11.59
47.75	-12.70	-12.06	-11.90	-10.84	-10.72
49.50	-26.24	-20.17	-18.98	-13.99	-13.45
51.25	-18.47	-19.69	-19.79	-17.62	-17.17
53.00	-15.10	-15.50	-16.29	-20.63	-19.99
54.75	-11.35	-13.60	-14.58	-26.03	-23.56
56.50	-10.71	-19.94	-16.94	-14.95	-17.24
58.25	-9.73	-13.21	-13.21	-13.94	-14.40
60.00	-9.97	-12.71	-12.22	-19.58	-19.76
61.75	-12.84	-15.65	-15.13	-25.44	-24.46
63.50	-20.08	-15.82	-15.50	-19.94	-20.36
65.25	-9.01	-9.34	-8.56	-11.23	-10.83
67.00	-6.14	-8.08	-7.68	-9.27	-9.05

# SP2T Solid-State Switch

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## Typical Performance Data

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

Freq. (GHz)	Insertion Loss (dB)		Isolation, Active states (dB)			Isolation, Disconnected states (dB)		
	COM-RF1	COM-RF2	COM-RF1	COM-RF2	RF1-RF2	COM-RF1	COM-RF2	RF1-RF2
0.10	-0.88	-0.90	-94.19	-91.35	-100.78	-88.39	-88.98	-93.70
0.25	-0.93	-0.95	-86.56	-86.68	-87.82	-82.70	-82.57	-100.55
0.50	-0.98	-1.00	-80.07	-79.74	-83.55	-76.07	-75.63	-95.77
2.25	-1.16	-1.19	-67.35	-67.49	-71.43	-63.65	-63.43	-79.98
4.00	-1.34	-1.35	-63.59	-63.68	-67.79	-59.44	-59.32	-74.33
5.75	-1.45	-1.46	-61.86	-61.97	-66.81	-57.71	-57.62	-70.67
7.50	-1.54	-1.55	-61.40	-61.52	-68.05	-57.04	-57.06	-67.78
9.25	-1.64	-1.67	-61.84	-61.95	-71.59	-57.31	-57.38	-64.83
11.00	-1.76	-1.79	-61.77	-62.23	-69.79	-58.17	-58.24	-62.14
12.75	-1.89	-1.90	-59.26	-59.64	-63.22	-57.85	-58.21	-59.94
14.50	-1.99	-2.01	-54.85	-55.16	-56.11	-54.84	-54.77	-57.33
16.25	-2.14	-2.20	-50.44	-50.36	-52.81	-51.23	-51.03	-55.51
18.00	-2.27	-2.35	-50.51	-50.10	-51.37	-49.64	-49.46	-55.36
19.75	-2.37	-2.48	-48.65	-48.00	-48.86	-48.09	-47.73	-55.16
21.50	-2.42	-2.53	-49.09	-48.57	-49.75	-47.56	-47.34	-55.52
23.25	-2.56	-2.65	-49.26	-48.87	-48.76	-47.13	-46.82	-54.97
25.00	-2.72	-2.80	-48.54	-48.45	-47.88	-46.64	-46.49	-54.23
26.75	-2.83	-2.92	-50.07	-49.84	-49.56	-46.63	-46.59	-53.90
28.50	-2.87	-2.93	-49.48	-49.33	-49.80	-46.69	-47.39	-53.85
30.25	-2.88	-2.95	-51.05	-50.48	-50.13	-48.82	-47.86	-52.92
32.00	-2.92	-3.06	-51.26	-50.39	-51.10	-48.23	-48.35	-52.49
33.75	-3.09	-3.24	-53.66	-51.52	-48.06	-47.01	-48.53	-50.66
35.50	-3.23	-3.46	-53.83	-54.80	-46.21	-47.61	-47.58	-50.59
37.25	-3.31	-3.55	-58.45	-54.78	-45.74	-48.34	-47.50	-51.18
39.00	-3.33	-3.60	-56.15	-53.90	-46.06	-47.94	-47.10	-51.21
40.75	-3.38	-3.69	-53.21	-51.64	-47.28	-46.79	-47.20	-52.53
42.50	-3.60	-3.85	-49.81	-51.34	-46.03	-45.83	-45.82	-53.03
44.25	-3.75	-3.98	-49.81	-49.47	-46.41	-45.96	-45.76	-52.58
46.00	-4.05	-4.27	-47.26	-46.76	-45.47	-44.63	-44.86	-51.54
47.75	-4.11	-4.29	-46.61	-46.04	-42.86	-43.80	-44.19	-48.90
49.50	-3.94	-4.07	-45.55	-44.34	-42.83	-44.14	-43.90	-47.63
51.25	-4.05	-4.16	-47.74	-46.56	-42.89	-45.74	-43.96	-47.12
53.00	-4.34	-4.40	-55.62	-53.93	-43.27	-46.61	-45.08	-47.58
54.75	-4.60	-4.70	-55.78	-57.32	-44.54	-49.64	-46.60	-46.89
56.50	-4.68	-4.80	-45.18	-47.83	-50.77	-45.33	-46.32	-49.75
58.25	-4.87	-4.91	-43.86	-43.30	-55.49	-42.72	-42.98	-51.60
60.00	-4.94	-5.00	-43.04	-42.12	-46.95	-40.65	-41.16	-60.39
61.75	-4.76	-4.79	-42.10	-41.39	-43.57	-41.11	-41.69	-58.60
63.50	-4.92	-4.89	-40.31	-40.75	-41.16	-42.71	-43.55	-54.28
65.25	-5.98	-5.94	-43.85	-44.27	-40.00	-48.21	-49.19	-54.46
67.00	-7.05	-7.18	-43.74	-41.91	-41.74	-49.29	-47.18	-52.68

**NOTES:**

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- 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>



# SP2T Solid-State Switch

eSB-1SP2T-A673

## Typical Performance Data

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

Freq. (GHz)	Return Loss, Active ports (dB)			RL, Terminated ports (dB)	
	COM	RF1	RF2	RF1	RF2
0.10	-20.87	-21.01	-20.87	-49.89	-46.59
0.25	-20.62	-20.72	-20.59	-45.50	-42.94
0.50	-20.30	-20.55	-20.38	-41.39	-39.20
2.25	-22.00	-20.47	-20.68	-46.27	-41.01
4.00	-24.84	-18.08	-18.76	-31.91	-35.18
5.75	-24.58	-19.14	-19.22	-27.81	-30.21
7.50	-19.83	-23.74	-22.44	-28.01	-30.84
9.25	-18.40	-22.92	-21.64	-35.26	-45.63
11.00	-20.12	-19.60	-18.65	-37.17	-31.80
12.75	-21.27	-16.90	-17.31	-27.96	-25.85
14.50	-19.68	-20.01	-21.84	-25.84	-25.48
16.25	-17.08	-23.61	-22.20	-33.09	-36.26
18.00	-20.68	-23.41	-21.41	-30.29	-27.62
19.75	-23.43	-19.01	-17.53	-22.07	-20.85
21.50	-29.57	-23.77	-20.64	-22.19	-21.03
23.25	-31.27	-21.18	-22.98	-28.69	-24.22
25.00	-24.08	-18.21	-20.43	-33.17	-27.02
26.75	-23.72	-17.93	-19.82	-27.90	-26.27
28.50	-36.42	-21.27	-23.23	-19.46	-20.23
30.25	-21.50	-25.85	-26.23	-16.43	-16.99
32.00	-20.58	-27.97	-32.07	-17.13	-16.55
33.75	-17.44	-23.61	-23.11	-18.21	-15.69
35.50	-15.91	-18.11	-16.54	-14.90	-13.61
37.25	-18.27	-16.03	-16.45	-15.27	-14.87
39.00	-20.19	-17.76	-19.71	-25.95	-23.34
40.75	-19.28	-25.44	-25.81	-18.09	-17.82
42.50	-16.28	-16.58	-17.73	-14.88	-15.09
44.25	-15.32	-15.41	-15.76	-14.08	-13.85
46.00	-12.23	-12.64	-12.12	-12.33	-11.74
47.75	-13.20	-12.49	-11.80	-11.28	-10.79
49.50	-26.25	-20.31	-18.98	-14.28	-13.60
51.25	-18.22	-19.69	-20.05	-18.00	-18.27
53.00	-14.94	-15.41	-17.08	-22.07	-20.16
54.75	-11.76	-14.52	-14.72	-23.91	-24.72
56.50	-10.78	-20.83	-18.30	-15.00	-16.75
58.25	-9.96	-13.27	-13.76	-14.52	-15.02
60.00	-10.51	-13.46	-12.73	-21.15	-19.76
61.75	-13.24	-16.66	-15.69	-26.77	-28.30
63.50	-19.94	-16.03	-16.12	-19.73	-21.04
65.25	-9.22	-9.51	-9.50	-11.36	-11.96
67.00	-6.36	-8.38	-7.46	-9.53	-8.82

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