

Solid State USB SP8T Switch

USB-1SP8T-34

Typical Performance Data

TEST CONDITIONS: @Temperature = 0°C, Pin=8dBm

Frequency (MHz)	Insertion Loss							
	(dB)							
	COM-J1	COM-J2	COM-J3	COM-J4	COM-J5	COM-J6	COM-J7	COM-J8
100	1.61	1.63	1.62	1.62	1.62	1.62	1.63	1.62
500	1.87	1.90	1.87	1.87	1.89	1.88	1.91	1.89
1000	2.04	2.08	2.00	2.02	2.06	2.03	2.08	2.06
1500	2.13	2.17	2.13	2.14	2.20	2.16	2.18	2.15
2000	2.27	2.31	2.22	2.23	2.29	2.25	2.32	2.30
2500	2.39	2.44	2.25	2.26	2.30	2.28	2.45	2.42
3000	2.43	2.48	2.37	2.39	2.41	2.40	2.50	2.47
3500	2.67	2.72	2.56	2.60	2.62	2.59	2.75	2.73
4000	2.73	2.78	2.68	2.72	2.75	2.72	2.80	2.77
4500	2.75	2.81	2.72	2.75	2.80	2.76	2.83	2.81
5000	2.95	3.00	2.74	2.79	2.83	2.79	3.02	2.99
5500	3.05	3.11	2.81	2.87	2.89	2.86	3.13	3.09
6000	3.06	3.13	2.87	2.92	2.95	2.92	3.15	3.12
6500	3.15	3.21	2.96	3.01	3.02	3.00	3.22	3.18
7000	3.32	3.40	3.08	3.14	3.11	3.10	3.39	3.36
7500	3.48	3.56	3.29	3.38	3.32	3.31	3.58	3.55
8000	3.43	3.50	3.48	3.57	3.51	3.51	3.52	3.48
8500	3.59	3.68	3.58	3.64	3.62	3.60	3.72	3.69
9000	3.92	3.99	3.57	3.62	3.62	3.59	4.06	4.02
9750	3.86	3.94	3.58	3.69	3.63	3.64	3.97	3.92
10500	4.24	4.29	3.86	3.97	3.90	3.90	4.36	4.29
11250	4.23	4.32	4.04	4.20	4.07	4.05	4.34	4.29
12000	4.40	4.50	4.10	4.40	4.13	4.14	4.52	4.47
12750	4.54	4.65	4.18	4.50	4.23	4.25	4.68	4.63
13500	4.71	4.81	4.34	4.57	4.38	4.41	4.85	4.79
14250	4.91	4.99	4.51	4.66	4.55	4.57	5.07	4.99
15000	5.10	5.17	4.67	4.78	4.70	4.73	5.27	5.18
15750	5.25	5.31	4.81	4.93	4.84	4.87	5.37	5.30
16500	5.40	5.45	4.91	5.07	4.93	4.94	5.50	5.43
17250	5.55	5.60	4.98	5.24	4.99	5.04	5.63	5.57
18000	5.69	5.73	5.12	5.37	5.13	5.22	5.74	5.69
18750	5.86	5.86	5.20	5.39	5.19	5.29	5.87	5.82
19500	6.02	5.98	5.31	5.44	5.23	5.34	5.95	5.90
20250	6.03	6.12	5.43	5.45	5.29	5.39	6.07	6.03
21000	6.12	6.18	5.42	5.57	5.38	5.47	6.16	6.11
21500	6.24	6.27	5.52	5.74	5.51	5.60	6.34	6.29
22000	6.29	6.32	5.64	5.89	5.64	5.70	6.38	6.33
22500	6.46	6.49	5.76	5.98	5.82	5.85	6.56	6.52
23000	6.62	6.66	5.89	6.06	5.97	6.01	6.73	6.69
23500	6.73	6.74	5.87	6.02	5.92	5.99	6.79	6.74
24000	6.86	6.88	5.96	6.10	5.97	6.08	6.96	6.95
24500	6.79	6.81	6.09	6.21	6.06	6.23	6.87	6.82
25000	6.95	6.93	6.03	6.17	6.02	6.20	7.00	6.95
25500	6.97	6.99	5.98	6.11	5.99	6.17	7.10	7.07
26000	6.89	6.90	6.06	6.17	6.05	6.24	6.99	6.91
26500	6.96	6.99	6.17	6.27	6.14	6.36	7.12	7.03
27000	7.08	7.12	6.29	6.38	6.26	6.49	7.30	7.18
27500	7.21	7.25	6.40	6.50	6.38	6.62	7.43	7.30
28000	7.27	7.35	6.52	6.63	6.49	6.72	7.53	7.45
28500	7.41	7.49	6.68	6.82	6.65	6.84	7.62	7.58
29000	7.70	7.79	6.86	7.03	6.83	7.02	7.84	7.94
29500	7.68	7.83	6.96	7.14	6.93	7.13	7.90	8.03
30000	7.76	7.83	6.92	7.09	6.94	7.10	7.94	8.03

Notes

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Solid State USB SP8T Switch

USB-1SP8T-34

Typical Performance Data

TEST CONDITIONS: @Temperature = 0°C, Pin=8dBm

Frequency (MHz)	VSWR, Active Ports (:1)								
	COM	J1	J2	J3	J4	J5	J6	J7	J8
100	1.20	1.19	1.20	1.20	1.20	1.20	1.20	1.20	1.20
500	1.16	1.14	1.14	1.17	1.17	1.17	1.17	1.14	1.14
1000	1.08	1.05	1.05	1.07	1.07	1.07	1.07	1.04	1.04
1500	1.10	1.12	1.12	1.09	1.10	1.08	1.10	1.10	1.10
2000	1.12	1.16	1.16	1.16	1.16	1.16	1.16	1.16	1.17
2500	1.14	1.19	1.19	1.03	1.03	1.06	1.04	1.20	1.20
3000	1.16	1.11	1.11	1.21	1.23	1.20	1.21	1.12	1.14
3500	1.43	1.39	1.40	1.42	1.44	1.41	1.43	1.43	1.44
4000	1.29	1.21	1.21	1.42	1.44	1.41	1.43	1.21	1.20
4500	1.29	1.17	1.17	1.24	1.24	1.27	1.25	1.19	1.21
5000	1.50	1.38	1.37	1.06	1.04	1.08	1.06	1.39	1.38
5500	1.40	1.21	1.21	1.12	1.14	1.14	1.14	1.19	1.17
6000	1.26	1.09	1.09	1.19	1.21	1.22	1.22	1.12	1.14
6500	1.31	1.20	1.17	1.19	1.19	1.19	1.19	1.15	1.14
7000	1.38	1.25	1.29	1.25	1.23	1.18	1.20	1.24	1.25
7500	1.31	1.30	1.32	1.39	1.40	1.33	1.35	1.35	1.36
8000	1.11	1.10	1.07	1.52	1.54	1.48	1.49	1.12	1.12
8500	1.37	1.29	1.32	1.52	1.52	1.52	1.48	1.34	1.37
9000	1.54	1.53	1.51	1.33	1.30	1.36	1.28	1.58	1.58
9750	1.19	1.08	1.06	1.06	1.12	1.04	1.10	1.10	1.10
10500	1.58	1.47	1.43	1.39	1.42	1.38	1.36	1.47	1.45
11250	1.19	1.10	1.11	1.36	1.29	1.34	1.26	1.10	1.09
12000	1.29	1.16	1.20	1.25	1.15	1.23	1.20	1.17	1.18
12750	1.10	1.13	1.17	1.16	1.10	1.15	1.17	1.19	1.20
13500	1.15	1.09	1.10	1.08	1.06	1.10	1.11	1.19	1.17
14250	1.21	1.13	1.10	1.10	1.08	1.11	1.10	1.24	1.19
15000	1.22	1.19	1.15	1.16	1.13	1.16	1.13	1.31	1.23
15750	1.24	1.10	1.08	1.18	1.13	1.20	1.13	1.15	1.08
16500	1.28	1.21	1.21	1.25	1.18	1.29	1.18	1.24	1.18
17250	1.25	1.12	1.12	1.23	1.19	1.29	1.23	1.10	1.09
18000	1.36	1.22	1.23	1.05	1.05	1.06	1.11	1.19	1.17
18750	1.32	1.06	1.03	1.18	1.21	1.16	1.09	1.07	1.08
19500	1.37	1.23	1.24	1.20	1.21	1.22	1.21	1.16	1.14
20250	1.29	1.08	1.06	1.17	1.09	1.19	1.21	1.17	1.18
21000	1.17	1.22	1.21	1.10	1.11	1.16	1.13	1.24	1.20
21500	1.19	1.22	1.21	1.15	1.06	1.12	1.09	1.32	1.31
22000	1.24	1.04	1.06	1.31	1.22	1.21	1.17	1.15	1.15
22500	1.37	1.19	1.22	1.34	1.26	1.23	1.19	1.28	1.29
23000	1.50	1.19	1.26	1.32	1.28	1.26	1.22	1.31	1.33
23500	1.58	1.08	1.04	1.22	1.21	1.22	1.15	1.04	1.08
24000	1.77	1.14	1.19	1.03	1.03	1.05	1.04	1.22	1.31
24500	1.59	1.12	1.16	1.15	1.18	1.11	1.20	1.14	1.17
25000	1.64	1.25	1.16	1.17	1.23	1.14	1.21	1.15	1.20
25500	1.63	1.12	1.15	1.03	1.09	1.03	1.12	1.18	1.29
26000	1.34	1.16	1.09	1.20	1.13	1.15	1.18	1.04	1.06
26500	1.25	1.22	1.21	1.30	1.24	1.21	1.24	1.21	1.27
27000	1.24	1.10	1.14	1.31	1.25	1.22	1.24	1.17	1.23
27500	1.30	1.16	1.16	1.32	1.26	1.28	1.30	1.10	1.16
28000	1.28	1.23	1.30	1.24	1.19	1.24	1.28	1.26	1.36
28500	1.31	1.07	1.16	1.18	1.16	1.19	1.23	1.20	1.27
29000	1.58	1.26	1.32	1.32	1.33	1.29	1.35	1.23	1.40
29500	1.47	1.23	1.40	1.40	1.42	1.35	1.44	1.41	1.51
30000	1.48	1.04	1.10	1.29	1.32	1.26	1.34	1.16	1.25

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USB-1SP8T-34

Typical Performance Data

TEST CONDITIONS: @Temperature = 0°C, Pin=8dBm

Frequency (MHz)	VSWR, Internally Terminated Ports (:1)							
	J1	J2	J3	J4	J5	J6	J7	J8
100	1.09	1.08	1.08	1.08	1.08	1.08	1.10	1.10
500	1.11	1.11	1.11	1.11	1.11	1.11	1.12	1.12
1000	1.16	1.16	1.17	1.17	1.16	1.16	1.17	1.17
1500	1.20	1.20	1.21	1.22	1.20	1.21	1.22	1.22
2000	1.23	1.23	1.25	1.25	1.23	1.24	1.25	1.25
2500	1.24	1.24	1.25	1.25	1.24	1.25	1.26	1.26
3000	1.22	1.22	1.22	1.23	1.22	1.22	1.23	1.23
3500	1.18	1.18	1.18	1.18	1.18	1.18	1.19	1.18
4000	1.14	1.14	1.13	1.13	1.14	1.13	1.14	1.13
4500	1.10	1.10	1.08	1.08	1.09	1.08	1.09	1.07
5000	1.07	1.07	1.05	1.03	1.05	1.04	1.05	1.03
5500	1.05	1.06	1.05	1.04	1.03	1.03	1.04	1.05
6000	1.06	1.09	1.09	1.08	1.07	1.08	1.09	1.11
6500	1.10	1.13	1.14	1.14	1.13	1.13	1.15	1.17
7000	1.15	1.17	1.18	1.19	1.18	1.18	1.21	1.23
7500	1.20	1.20	1.22	1.23	1.23	1.22	1.26	1.27
8000	1.23	1.23	1.24	1.25	1.26	1.24	1.29	1.29
8500	1.25	1.24	1.25	1.26	1.28	1.25	1.30	1.30
9000	1.25	1.23	1.25	1.24	1.27	1.23	1.29	1.28
9750	1.24	1.21	1.22	1.21	1.25	1.18	1.26	1.23
10500	1.21	1.19	1.19	1.15	1.20	1.13	1.20	1.18
11250	1.13	1.14	1.13	1.06	1.13	1.07	1.12	1.11
12000	1.12	1.16	1.13	1.07	1.13	1.13	1.14	1.15
12750	1.13	1.16	1.14	1.09	1.14	1.17	1.17	1.17
13500	1.13	1.12	1.14	1.11	1.15	1.18	1.21	1.18
14250	1.20	1.15	1.20	1.17	1.23	1.20	1.28	1.22
15000	1.22	1.18	1.24	1.19	1.26	1.19	1.30	1.23
15750	1.21	1.18	1.23	1.16	1.23	1.13	1.25	1.18
16500	1.24	1.23	1.25	1.19	1.25	1.17	1.23	1.20
17250	1.24	1.24	1.24	1.19	1.24	1.20	1.21	1.20
18000	1.18	1.18	1.15	1.12	1.16	1.17	1.13	1.14
18750	1.15	1.12	1.09	1.05	1.10	1.15	1.12	1.12
19500	1.15	1.09	1.12	1.07	1.12	1.16	1.18	1.18
20250	1.14	1.10	1.18	1.15	1.17	1.17	1.22	1.22
21000	1.17	1.16	1.25	1.24	1.25	1.21	1.26	1.27
21500	1.15	1.15	1.23	1.22	1.23	1.17	1.23	1.24
22000	1.10	1.10	1.17	1.16	1.17	1.11	1.17	1.17
22500	1.08	1.04	1.08	1.06	1.07	1.01	1.06	1.06
23000	1.13	1.07	1.04	1.04	1.02	1.11	1.05	1.08
23500	1.20	1.15	1.13	1.13	1.11	1.21	1.14	1.20
24000	1.24	1.21	1.21	1.22	1.19	1.29	1.21	1.29
24500	1.27	1.26	1.28	1.32	1.27	1.37	1.28	1.38
25000	1.27	1.29	1.33	1.38	1.31	1.40	1.31	1.43
25500	1.24	1.29	1.33	1.39	1.31	1.40	1.32	1.44
26000	1.17	1.24	1.28	1.35	1.26	1.35	1.30	1.40
26500	1.12	1.18	1.20	1.27	1.19	1.28	1.27	1.32
27000	1.11	1.10	1.09	1.14	1.07	1.15	1.19	1.19
27500	1.18	1.10	1.02	1.04	1.05	1.02	1.11	1.05
28000	1.28	1.20	1.15	1.14	1.18	1.12	1.07	1.12
28500	1.37	1.32	1.28	1.29	1.30	1.29	1.15	1.30
29000	1.43	1.42	1.40	1.43	1.41	1.44	1.27	1.49
29500	1.45	1.51	1.49	1.54	1.47	1.57	1.38	1.64
30000	1.44	1.56	1.55	1.62	1.51	1.67	1.50	1.76

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Typical Performance Data

TEST CONDITIONS: @Temperature = 0°C, Pin=8dBm

Frequency (MHz)	Isolation @ Active states (dB)							
	COM-1	COM-3	COM-5	COM-7	J2-J3	J4-J5	J6-J7	J7-J8
100	88.08	88.55	85.96	90.04	96.47	107.63	98.89	89.95
500	79.91	78.21	76.17	79.07	100.03	98.85	101.79	83.94
1000	73.02	71.83	69.97	72.85	99.20	97.34	99.52	76.97
1500	69.62	68.46	67.11	69.42	100.90	102.64	101.91	72.44
2000	67.94	67.09	65.33	68.03	101.39	92.03	95.07	70.98
2500	66.89	66.06	64.39	67.12	97.41	96.52	99.11	70.66
3000	66.31	65.08	63.80	66.49	96.17	98.78	94.78	68.97
3500	66.00	64.67	63.46	66.02	103.80	97.79	113.68	67.46
4000	65.73	64.64	63.25	66.05	98.93	97.74	97.76	67.96
4500	66.14	65.35	63.03	66.19	96.60	102.39	96.98	68.37
5000	66.63	64.22	63.20	67.05	115.93	90.03	103.53	65.91
5500	64.86	63.26	63.20	66.21	96.85	87.18	101.90	66.14
6000	64.22	62.61	63.42	64.69	89.61	81.55	98.31	67.14
6500	63.95	62.27	63.38	63.87	89.49	82.71	109.17	67.22
7000	63.57	62.37	63.45	63.49	91.91	82.80	100.41	65.30
7500	63.66	62.05	63.19	63.10	93.18	82.00	94.66	65.19
8000	63.33	61.75	62.58	62.49	104.07	84.07	122.24	67.52
8500	63.56	61.23	62.07	62.40	96.54	87.18	97.84	67.61
9000	63.67	60.93	61.57	62.44	99.92	88.60	107.26	65.25
9750	64.07	60.52	60.94	62.20	100.79	87.34	103.75	66.69
10500	64.48	60.03	60.33	62.48	92.04	87.99	92.22	67.18
11250	64.75	59.36	58.92	62.41	87.93	86.05	100.43	65.89
12000	64.57	58.56	57.86	62.17	87.56	87.84	97.64	66.26
12750	64.67	58.80	57.21	61.87	93.33	93.65	89.15	65.96
13500	65.51	61.08	56.53	61.08	83.63	86.65	83.63	65.19
14250	64.89	63.19	56.05	60.82	80.28	85.85	80.64	64.04
15000	63.67	61.34	55.78	61.35	85.04	82.73	78.05	64.91
15750	63.08	57.90	55.42	60.80	85.81	77.67	79.16	63.33
16500	62.35	55.94	54.53	60.29	89.49	78.46	81.97	62.02
17250	61.20	55.30	53.47	59.76	89.00	80.61	88.26	62.26
18000	60.48	55.75	53.28	59.28	89.49	85.32	85.72	59.65
18750	60.07	55.94	53.31	58.71	90.43	84.71	87.06	60.54
19500	59.46	55.60	53.11	58.45	82.78	83.22	83.65	58.74
20250	58.89	55.28	52.56	58.31	83.74	82.33	83.93	58.70
21000	58.64	55.75	52.39	58.30	85.67	80.73	91.62	58.95
21500	58.73	56.02	52.34	58.20	86.43	80.73	83.97	56.86
22000	58.23	55.84	52.29	57.53	88.05	81.12	83.88	56.49
22500	58.31	55.56	52.13	57.54	89.64	85.33	82.79	57.45
23000	58.35	55.74	52.22	57.78	86.74	91.27	90.99	57.11
23500	58.38	56.50	52.17	57.91	92.66	91.86	88.33	55.55
24000	58.61	56.06	52.58	58.11	95.11	94.92	92.68	54.46
24500	58.01	55.79	53.36	57.82	99.66	105.04	92.69	55.04
25000	57.31	55.08	53.61	57.64	89.74	93.93	97.04	53.22
25500	57.08	54.56	53.35	57.15	91.01	100.61	101.81	52.08
26000	56.90	54.29	52.85	56.46	92.80	96.34	92.14	52.80
26500	56.89	54.22	52.77	56.53	96.71	92.76	95.37	52.98
27000	57.21	54.39	52.93	56.90	92.34	93.30	90.69	52.57
27500	58.62	55.07	53.63	57.49	86.70	82.61	85.95	52.33
28000	59.58	56.46	54.44	58.24	90.71	82.69	81.22	52.63
28500	60.49	57.62	55.01	59.01	87.73	77.75	86.64	53.76
29000	60.33	58.29	55.33	59.34	72.30	78.20	88.92	53.32
29500	60.21	58.25	55.50	58.90	85.51	77.04	85.54	52.99
30000	59.74	58.01	54.79	59.27	82.18	78.67	81.59	54.02

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Solid State USB SP8T Switch

USB-1SP8T-34

Typical Performance Data

TEST CONDITIONS: @Temperature = 0°C, Pin=8dBm

Frequency (MHz)	Isolation @ Disconnected state (dB)							
	COM-1	COM-2	COM-3	COM-4	COM-5	COM-6	COM-7	COM-8
100	103.20	102.71	101.49	96.23	83.08	83.90	97.51	93.55
500	104.31	106.19	103.94	93.50	77.06	76.15	100.61	106.84
1000	103.35	97.24	101.25	87.84	70.43	69.62	96.65	103.92
1500	105.80	98.11	99.45	89.15	67.78	66.97	97.02	98.17
2000	101.42	98.56	96.69	90.57	66.51	65.31	101.28	104.31
2500	96.18	98.76	105.80	100.23	65.02	63.67	97.43	99.63
3000	96.36	100.88	92.48	87.07	64.05	62.34	92.32	96.59
3500	99.54	99.54	96.74	82.16	64.49	61.97	100.65	93.74
4000	104.75	104.08	97.89	83.54	65.62	62.92	104.86	98.47
4500	97.29	101.11	111.67	88.67	66.46	63.32	99.03	108.53
5000	98.46	94.63	98.14	84.19	67.36	63.83	116.18	94.06
5500	100.03	92.58	104.03	74.35	67.39	63.63	99.80	99.96
6000	95.52	106.30	93.23	73.10	66.58	63.05	100.82	108.09
6500	97.14	101.14	98.15	78.49	65.03	62.61	94.11	96.86
7000	102.16	108.32	100.35	91.00	64.42	63.02	105.44	101.05
7500	101.11	101.29	98.05	84.69	64.00	64.15	104.16	103.82
8000	101.31	96.32	99.54	79.40	63.87	65.61	100.42	109.95
8500	102.57	98.79	105.31	84.09	63.46	67.31	96.79	101.16
9000	102.90	95.32	102.80	86.51	62.52	68.47	108.91	104.31
9750	101.79	106.07	110.86	97.70	60.01	68.78	101.42	101.32
10500	93.54	97.81	102.16	80.46	57.19	68.32	95.29	103.75
11250	101.21	108.55	98.85	77.83	56.12	68.67	101.76	104.46
12000	104.06	94.83	97.76	78.46	55.54	67.94	100.36	95.52
12750	94.68	112.23	109.64	66.05	54.81	66.11	100.51	101.35
13500	99.51	105.77	106.23	64.59	53.91	64.02	99.13	98.16
14250	103.78	101.82	99.08	71.09	53.07	61.97	98.47	95.88
15000	99.93	100.78	100.03	61.09	52.45	60.13	98.46	94.92
15750	108.82	103.52	95.76	60.77	51.52	58.06	90.44	93.76
16500	98.01	99.46	101.29	71.53	50.54	56.80	106.48	94.92
17250	99.14	97.05	101.63	65.92	50.25	55.97	96.90	99.29
18000	104.09	105.35	95.57	64.52	50.56	55.65	99.15	108.25
18750	104.78	108.65	92.49	71.71	50.50	54.82	104.22	94.74
19500	94.08	93.92	92.92	66.09	49.29	52.90	87.56	90.58
20250	100.56	99.03	88.49	62.05	48.28	51.36	95.56	102.62
21000	112.37	95.44	95.07	67.64	48.77	51.55	97.09	108.22
21500	105.97	99.90	89.16	70.12	48.84	51.36	101.63	98.68
22000	103.30	98.45	90.99	65.96	48.74	51.02	108.04	97.27
22500	104.59	102.13	87.79	65.71	48.89	50.77	94.51	100.62
23000	103.26	98.04	91.18	69.47	49.14	50.80	93.18	97.29
23500	95.89	115.40	100.31	77.19	48.66	50.28	92.68	95.11
24000	93.72	98.97	92.47	82.35	47.84	49.22	97.24	93.28
24500	94.85	97.65	104.23	78.42	47.86	48.92	88.80	89.09
25000	99.16	112.00	98.70	80.58	48.34	49.10	104.82	106.48
25500	99.85	103.45	113.55	84.59	48.86	49.54	104.01	99.51
26000	101.83	97.14	94.22	89.44	48.93	49.52	114.05	97.09
26500	104.47	92.89	92.40	80.59	48.89	49.42	95.89	93.57
27000	87.75	91.60	94.73	75.89	49.46	49.91	86.89	87.30
27500	92.71	87.60	97.86	75.68	50.13	50.88	84.85	89.72
28000	97.19	86.03	88.47	76.85	50.51	51.42	108.94	92.88
28500	91.84	90.01	88.36	75.33	51.19	52.39	100.83	88.55
29000	92.75	93.97	84.30	70.33	51.97	53.87	91.27	87.82
29500	109.47	89.70	95.90	68.02	53.65	55.62	101.23	86.36
30000	94.11	93.59	97.36	71.70	55.39	57.17	88.38	85.71

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Solid State USB SP8T Switch

USB-1SP8T-34

Typical Performance Data

TEST CONDITIONS: @Temperature = +25°C, Pin=8dBm

Frequency (MHz)	Insertion Loss							
	(dB)							
	COM-J1	COM-J2	COM-J3	COM-J4	COM-J5	COM-J6	COM-J7	COM-J8
100	1.69	1.70	1.70	1.70	1.68	1.68	1.70	1.70
500	1.96	1.98	1.95	1.95	1.93	1.92	1.98	1.98
1000	2.13	2.15	2.09	2.09	2.07	2.07	2.16	2.15
1500	2.22	2.24	2.22	2.23	2.21	2.20	2.25	2.24
2000	2.37	2.40	2.31	2.32	2.29	2.29	2.41	2.41
2500	2.50	2.53	2.35	2.36	2.33	2.32	2.54	2.54
3000	2.55	2.57	2.47	2.49	2.45	2.45	2.59	2.59
3500	2.80	2.83	2.67	2.70	2.65	2.65	2.86	2.86
4000	2.87	2.89	2.80	2.84	2.79	2.79	2.92	2.91
4500	2.90	2.92	2.84	2.87	2.84	2.83	2.96	2.97
5000	3.08	3.10	2.86	2.91	2.86	2.86	3.14	3.14
5500	3.20	3.22	2.93	2.98	2.92	2.93	3.26	3.24
6000	3.22	3.24	2.99	3.04	2.99	2.99	3.29	3.29
6500	3.31	3.32	3.09	3.13	3.08	3.08	3.36	3.35
7000	3.51	3.55	3.23	3.29	3.19	3.21	3.56	3.56
7500	3.69	3.71	3.46	3.54	3.40	3.43	3.76	3.77
8000	3.64	3.65	3.67	3.75	3.61	3.62	3.70	3.70
8500	3.82	3.85	3.76	3.83	3.74	3.72	3.92	3.93
9000	4.17	4.16	3.74	3.80	3.74	3.71	4.27	4.26
9750	4.11	4.11	3.77	3.89	3.75	3.77	4.18	4.17
10500	4.46	4.45	4.03	4.17	4.01	4.01	4.54	4.52
11250	4.51	4.52	4.23	4.46	4.21	4.20	4.57	4.56
12000	4.70	4.70	4.31	4.71	4.29	4.30	4.75	4.75
12750	4.87	4.87	4.43	4.78	4.41	4.44	4.93	4.93
13500	5.03	5.03	4.56	4.78	4.55	4.57	5.09	5.08
14250	5.18	5.17	4.68	4.82	4.67	4.69	5.22	5.21
15000	5.32	5.29	4.78	4.90	4.77	4.80	5.36	5.33
15750	5.44	5.42	4.88	4.99	4.87	4.90	5.45	5.43
16500	5.57	5.54	4.98	5.10	4.96	4.98	5.55	5.54
17250	5.71	5.68	5.06	5.18	5.03	5.09	5.68	5.67
18000	5.84	5.81	5.17	5.27	5.14	5.23	5.80	5.80
18750	5.95	5.92	5.23	5.32	5.21	5.31	5.91	5.91
19500	6.06	6.01	5.28	5.38	5.24	5.36	6.00	6.00
20250	6.14	6.08	5.37	5.41	5.30	5.42	6.12	6.11
21000	6.29	6.22	5.43	5.49	5.36	5.49	6.25	6.22
21500	6.42	6.36	5.58	5.65	5.49	5.63	6.41	6.39
22000	6.49	6.43	5.74	5.78	5.61	5.76	6.47	6.46
22500	6.68	6.64	5.87	5.92	5.76	5.92	6.68	6.67
23000	6.84	6.82	6.01	6.06	5.92	6.09	6.85	6.85
23500	6.94	6.88	5.99	6.05	5.91	6.06	6.91	6.89
24000	7.09	7.06	6.09	6.16	6.01	6.15	7.09	7.12
24500	7.03	6.98	6.22	6.29	6.12	6.29	6.99	6.98
25000	7.22	7.12	6.16	6.23	6.07	6.27	7.15	7.13
25500	7.21	7.16	6.13	6.20	6.07	6.22	7.20	7.21
26000	7.19	7.11	6.23	6.27	6.15	6.29	7.13	7.10
26500	7.27	7.20	6.35	6.38	6.25	6.39	7.25	7.22
27000	7.39	7.33	6.45	6.49	6.36	6.49	7.37	7.35
27500	7.52	7.47	6.57	6.62	6.47	6.60	7.50	7.48
28000	7.57	7.55	6.71	6.77	6.60	6.71	7.58	7.58
28500	7.77	7.74	6.90	6.99	6.78	6.88	7.77	7.74
29000	8.03	8.03	7.07	7.18	6.96	7.08	8.00	8.04
29500	8.04	8.06	7.16	7.28	7.06	7.20	8.10	8.10
30000	8.17	8.14	7.18	7.28	7.13	7.22	8.20	8.16

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Solid State USB SP8T Switch

USB-1SP8T-34

Typical Performance Data

TEST CONDITIONS: @Temperature = +25°C, Pin=8dBm

Frequency (MHz)	VSWR, Active Ports (:1)								
	COM	J1	J2	J3	J4	J5	J6	J7	J8
100	1.22	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21
500	1.17	1.14	1.14	1.18	1.18	1.18	1.18	1.14	1.14
1000	1.08	1.06	1.06	1.08	1.07	1.08	1.08	1.05	1.05
1500	1.11	1.12	1.12	1.10	1.11	1.10	1.11	1.10	1.10
2000	1.13	1.17	1.17	1.15	1.15	1.15	1.16	1.17	1.18
2500	1.13	1.18	1.19	1.03	1.02	1.05	1.04	1.19	1.19
3000	1.17	1.11	1.11	1.22	1.23	1.20	1.21	1.13	1.14
3500	1.45	1.40	1.40	1.42	1.45	1.41	1.43	1.43	1.44
4000	1.29	1.21	1.20	1.43	1.44	1.43	1.44	1.21	1.20
4500	1.30	1.18	1.18	1.24	1.24	1.26	1.25	1.20	1.22
5000	1.49	1.37	1.35	1.05	1.02	1.06	1.04	1.37	1.37
5500	1.39	1.21	1.20	1.11	1.13	1.12	1.13	1.19	1.16
6000	1.24	1.07	1.09	1.17	1.19	1.20	1.20	1.11	1.13
6500	1.30	1.20	1.17	1.19	1.19	1.20	1.19	1.16	1.15
7000	1.38	1.27	1.30	1.26	1.25	1.20	1.22	1.24	1.26
7500	1.32	1.30	1.32	1.40	1.40	1.32	1.36	1.34	1.36
8000	1.14	1.09	1.06	1.52	1.54	1.48	1.48	1.11	1.10
8500	1.40	1.28	1.32	1.51	1.51	1.52	1.47	1.34	1.37
9000	1.54	1.53	1.51	1.33	1.30	1.36	1.29	1.60	1.58
9750	1.20	1.11	1.09	1.09	1.15	1.07	1.11	1.14	1.13
10500	1.50	1.41	1.38	1.35	1.39	1.34	1.32	1.43	1.40
11250	1.16	1.11	1.12	1.34	1.28	1.33	1.25	1.09	1.09
12000	1.25	1.13	1.17	1.23	1.12	1.21	1.19	1.12	1.14
12750	1.14	1.14	1.17	1.18	1.11	1.18	1.20	1.21	1.22
13500	1.17	1.14	1.15	1.12	1.06	1.13	1.14	1.25	1.23
14250	1.20	1.09	1.08	1.07	1.02	1.08	1.06	1.19	1.15
15000	1.20	1.15	1.12	1.09	1.04	1.08	1.07	1.26	1.18
15750	1.21	1.09	1.07	1.17	1.12	1.19	1.11	1.12	1.06
16500	1.21	1.27	1.24	1.29	1.25	1.33	1.23	1.26	1.21
17250	1.26	1.14	1.14	1.23	1.22	1.28	1.22	1.12	1.10
18000	1.35	1.22	1.23	1.07	1.07	1.04	1.06	1.19	1.17
18750	1.34	1.07	1.05	1.21	1.23	1.19	1.15	1.07	1.08
19500	1.38	1.14	1.18	1.13	1.18	1.17	1.15	1.11	1.10
20250	1.29	1.18	1.16	1.26	1.17	1.26	1.27	1.23	1.25
21000	1.14	1.29	1.27	1.14	1.07	1.17	1.17	1.32	1.27
21500	1.20	1.27	1.26	1.22	1.15	1.15	1.15	1.34	1.33
22000	1.26	1.11	1.12	1.36	1.27	1.22	1.22	1.19	1.17
22500	1.37	1.26	1.28	1.37	1.29	1.23	1.24	1.32	1.33
23000	1.53	1.24	1.31	1.36	1.31	1.28	1.29	1.33	1.36
23500	1.58	1.07	1.03	1.21	1.18	1.18	1.19	1.06	1.12
24000	1.76	1.23	1.26	1.04	1.07	1.02	1.12	1.29	1.39
24500	1.57	1.07	1.11	1.20	1.24	1.15	1.27	1.09	1.15
25000	1.64	1.32	1.22	1.16	1.22	1.12	1.26	1.22	1.28
25500	1.57	1.12	1.11	1.06	1.04	1.06	1.13	1.15	1.26
26000	1.34	1.22	1.15	1.23	1.14	1.17	1.22	1.11	1.10
26500	1.26	1.24	1.22	1.31	1.23	1.21	1.27	1.23	1.28
27000	1.25	1.09	1.08	1.26	1.19	1.17	1.23	1.11	1.16
27500	1.30	1.16	1.14	1.26	1.20	1.21	1.28	1.09	1.15
28000	1.25	1.14	1.21	1.18	1.14	1.16	1.23	1.21	1.28
28500	1.35	1.01	1.11	1.14	1.11	1.12	1.19	1.18	1.20
29000	1.56	1.18	1.25	1.27	1.28	1.22	1.31	1.19	1.33
29500	1.45	1.22	1.38	1.37	1.39	1.33	1.42	1.41	1.44
30000	1.48	1.06	1.14	1.32	1.34	1.31	1.36	1.21	1.23

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Solid State USB SP8T Switch

USB-1SP8T-34

Typical Performance Data

TEST CONDITIONS: @Temperature = +25°C, Pin=8dBm

Frequency (MHz)	VSWR, Internally Terminated Ports (:1)							
	J1	J2	J3	J4	J5	J6	J7	J8
100	1.08	1.08	1.08	1.08	1.08	1.08	1.09	1.09
500	1.10	1.11	1.11	1.11	1.10	1.11	1.11	1.12
1000	1.16	1.16	1.16	1.17	1.16	1.16	1.17	1.17
1500	1.20	1.20	1.21	1.22	1.20	1.21	1.22	1.22
2000	1.22	1.23	1.24	1.24	1.23	1.23	1.24	1.24
2500	1.22	1.23	1.24	1.24	1.23	1.23	1.24	1.24
3000	1.21	1.21	1.22	1.22	1.21	1.22	1.23	1.22
3500	1.18	1.18	1.18	1.19	1.19	1.18	1.19	1.19
4000	1.14	1.14	1.13	1.13	1.14	1.14	1.14	1.13
4500	1.10	1.09	1.08	1.07	1.09	1.08	1.09	1.07
5000	1.06	1.06	1.04	1.02	1.04	1.03	1.04	1.02
5500	1.05	1.06	1.06	1.04	1.04	1.04	1.05	1.05
6000	1.07	1.09	1.09	1.09	1.07	1.08	1.09	1.11
6500	1.10	1.12	1.14	1.14	1.12	1.13	1.14	1.16
7000	1.14	1.16	1.18	1.18	1.17	1.17	1.20	1.22
7500	1.18	1.19	1.21	1.22	1.22	1.20	1.24	1.26
8000	1.22	1.22	1.23	1.24	1.25	1.23	1.28	1.28
8500	1.25	1.24	1.25	1.26	1.28	1.24	1.31	1.30
9000	1.27	1.24	1.26	1.26	1.29	1.24	1.32	1.30
9750	1.24	1.21	1.22	1.21	1.25	1.19	1.26	1.24
10500	1.18	1.16	1.16	1.13	1.18	1.11	1.18	1.15
11250	1.13	1.14	1.12	1.05	1.12	1.07	1.10	1.10
12000	1.10	1.14	1.11	1.03	1.11	1.12	1.12	1.13
12750	1.15	1.17	1.16	1.09	1.17	1.19	1.21	1.20
13500	1.16	1.16	1.17	1.11	1.19	1.20	1.25	1.22
14250	1.14	1.11	1.15	1.10	1.18	1.15	1.23	1.17
15000	1.18	1.14	1.19	1.14	1.21	1.14	1.24	1.16
15750	1.22	1.20	1.23	1.19	1.24	1.16	1.24	1.18
16500	1.29	1.27	1.29	1.26	1.29	1.22	1.26	1.24
17250	1.25	1.25	1.25	1.24	1.25	1.20	1.22	1.21
18000	1.15	1.15	1.13	1.14	1.13	1.12	1.11	1.11
18750	1.08	1.07	1.04	1.04	1.06	1.10	1.08	1.08
19500	1.15	1.11	1.15	1.09	1.15	1.18	1.19	1.19
20250	1.23	1.20	1.27	1.20	1.25	1.25	1.28	1.29
21000	1.23	1.21	1.29	1.21	1.25	1.24	1.29	1.30
21500	1.15	1.15	1.23	1.15	1.19	1.17	1.23	1.23
22000	1.07	1.08	1.16	1.08	1.12	1.09	1.15	1.15
22500	1.03	1.00	1.08	1.02	1.03	1.03	1.06	1.06
23000	1.14	1.10	1.09	1.12	1.08	1.14	1.09	1.12
23500	1.24	1.20	1.19	1.22	1.18	1.27	1.19	1.25
24000	1.32	1.28	1.28	1.32	1.26	1.38	1.29	1.38
24500	1.34	1.31	1.33	1.37	1.30	1.44	1.33	1.45
25000	1.30	1.30	1.34	1.39	1.30	1.45	1.34	1.47
25500	1.21	1.24	1.29	1.34	1.24	1.40	1.29	1.41
26000	1.12	1.18	1.23	1.28	1.19	1.32	1.25	1.35
26500	1.07	1.12	1.14	1.19	1.11	1.21	1.18	1.23
27000	1.17	1.12	1.04	1.12	1.08	1.07	1.14	1.12
27500	1.24	1.15	1.05	1.08	1.10	1.03	1.11	1.06
28000	1.30	1.20	1.13	1.13	1.15	1.14	1.11	1.15
28500	1.30	1.25	1.22	1.22	1.21	1.27	1.13	1.27
29000	1.34	1.33	1.33	1.36	1.31	1.42	1.21	1.41
29500	1.35	1.41	1.42	1.47	1.39	1.54	1.32	1.54
30000	1.35	1.49	1.48	1.56	1.45	1.62	1.46	1.67

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Solid State USB SP8T Switch

USB-1SP8T-34

Typical Performance Data

TEST CONDITIONS: @Temperature = +25°C, Pin=8dBm

Frequency (MHz)	Isolation @ Active states (dB)							
	COM-1	COM-3	COM-5	COM-7	J2-J3	J4-J5	J6-J7	J7-J8
100	88.44	90.31	87.57	87.64	100.97	103.07	101.18	90.03
500	79.25	77.63	76.28	79.70	99.77	101.93	96.37	83.06
1000	73.05	71.23	69.34	72.20	99.38	100.31	105.63	77.52
1500	69.20	68.04	66.87	69.17	94.06	101.24	101.84	72.05
2000	67.37	66.17	64.90	67.20	98.27	96.84	100.28	70.04
2500	66.54	65.39	64.06	66.70	110.25	97.37	93.88	70.19
3000	65.88	64.68	63.38	66.11	98.69	100.49	94.59	68.30
3500	65.73	64.61	63.16	65.71	102.53	99.18	108.37	67.05
4000	65.59	64.33	63.03	65.48	99.87	93.35	103.10	67.36
4500	65.53	64.25	62.96	65.61	104.94	94.17	106.21	68.36
5000	65.22	63.87	62.78	66.70	98.09	87.47	101.65	64.81
5500	65.03	62.76	62.98	65.91	97.93	87.04	98.68	65.88
6000	64.28	61.94	62.85	64.06	85.05	83.42	98.45	66.53
6500	63.56	61.67	63.06	63.36	87.08	83.13	95.34	66.63
7000	62.97	61.67	63.18	63.25	90.49	83.79	95.37	64.79
7500	63.16	61.89	63.19	62.97	89.35	83.37	102.41	64.76
8000	62.91	61.75	62.85	62.29	92.16	83.23	102.40	67.93
8500	63.30	61.49	62.31	62.33	89.44	89.48	94.93	67.25
9000	63.50	60.87	61.71	62.52	96.52	88.17	108.31	64.92
9750	63.50	60.58	61.16	62.10	94.86	87.85	97.47	67.24
10500	64.09	60.28	60.59	62.31	88.38	84.96	101.41	67.68
11250	64.58	59.69	59.38	62.36	85.84	89.17	103.60	66.78
12000	64.68	59.17	58.31	62.36	86.53	89.99	95.50	67.89
12750	64.61	59.79	57.65	62.20	97.39	89.47	88.82	67.45
13500	65.44	62.52	56.85	61.48	86.12	89.86	83.64	67.29
14250	65.26	63.90	56.13	61.09	78.80	90.52	78.79	65.50
15000	64.31	61.52	55.71	61.71	82.85	86.67	76.87	67.01
15750	63.60	58.48	55.19	61.35	84.34	83.35	79.35	64.79
16500	62.85	56.92	54.34	60.67	86.82	82.08	83.78	63.73
17250	61.78	56.89	53.42	60.20	86.19	83.03	89.12	63.54
18000	60.99	57.42	53.19	59.69	86.35	89.53	84.40	60.96
18750	60.70	57.23	53.26	59.24	93.53	89.36	88.17	61.81
19500	59.90	56.63	52.96	58.85	84.19	88.32	85.53	59.85
20250	59.38	56.08	52.26	58.84	85.22	85.01	84.76	60.00
21000	59.09	56.48	52.05	58.66	87.96	82.96	92.03	59.90
21500	59.23	56.52	52.10	58.55	88.69	81.91	85.23	57.78
22000	58.83	56.33	52.03	57.96	90.49	83.16	83.00	57.57
22500	58.84	56.07	51.95	57.88	93.05	88.72	84.19	58.24
23000	59.12	56.46	51.93	58.13	88.17	95.02	90.63	58.09
23500	59.05	57.14	51.88	58.34	89.16	96.01	88.32	56.32
24000	59.11	56.79	52.44	58.52	101.22	95.45	90.32	55.13
24500	58.37	56.46	53.23	58.20	89.81	94.97	91.28	55.62
25000	57.75	55.69	53.68	58.10	98.61	94.15	96.89	53.67
25500	57.74	55.31	53.49	57.35	93.27	91.88	95.29	52.55
26000	57.38	55.05	53.23	56.81	95.57	91.72	92.56	53.28
26500	57.40	54.87	53.12	57.01	92.46	93.97	92.67	53.43
27000	58.31	55.14	53.74	57.37	92.05	100.44	90.71	53.24
27500	59.26	55.80	54.61	58.00	89.43	90.05	90.59	52.80
28000	60.42	57.32	55.57	58.89	101.03	77.54	90.18	53.45
28500	60.46	58.55	56.45	59.24	101.03	82.20	86.33	53.98
29000	61.12	59.31	56.41	59.47	72.01	81.64	90.30	53.62
29500	60.95	59.97	56.46	59.80	85.52	76.33	83.52	53.51
30000	60.27	59.17	55.89	59.46	106.25	80.31	93.71	54.36

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Solid State USB SP8T Switch

USB-1SP8T-34

Typical Performance Data

TEST CONDITIONS: @Temperature = +25°C, Pin=8dBm

Frequency (MHz)	Isolation @ Disconnected state (dB)							
	COM-1	COM-2	COM-3	COM-4	COM-5	COM-6	COM-7	COM-8
100	105.36	103.80	97.55	95.96	85.10	83.34	101.59	96.90
500	105.25	97.10	107.99	92.21	76.21	75.86	98.30	106.59
1000	101.74	110.52	102.93	85.75	69.81	69.74	107.96	101.06
1500	106.05	102.40	105.98	83.45	67.01	66.59	105.02	108.82
2000	113.74	111.18	102.11	89.57	65.58	64.85	97.57	99.64
2500	100.50	92.48	112.29	97.77	64.59	63.18	108.64	98.65
3000	99.81	93.68	106.40	79.60	63.43	61.59	102.49	100.37
3500	112.62	97.38	99.40	76.24	63.48	61.29	104.55	99.26
4000	98.75	104.30	105.38	76.90	64.40	61.84	102.69	118.50
4500	104.76	101.73	97.19	83.44	65.83	62.48	94.81	104.89
5000	100.39	98.85	106.68	77.55	66.61	62.78	99.59	96.79
5500	111.06	102.45	93.32	67.13	67.06	62.44	103.84	99.32
6000	94.14	105.89	90.26	64.63	65.96	62.15	98.17	98.11
6500	99.64	96.97	90.40	69.43	65.41	61.45	100.12	102.01
7000	99.50	100.81	104.50	83.04	65.21	61.58	99.10	94.98
7500	103.02	101.35	92.91	75.11	64.81	62.63	105.53	98.22
8000	94.35	106.08	96.44	73.33	64.91	64.30	96.62	95.22
8500	99.45	96.77	97.33	78.30	64.55	65.67	102.84	104.15
9000	99.02	97.70	98.83	83.77	63.63	66.81	97.80	100.26
9750	102.31	97.92	101.34	91.30	60.91	67.58	105.28	109.83
10500	92.21	101.98	104.88	82.38	58.10	67.56	99.49	100.44
11250	105.96	105.51	96.10	80.99	56.86	69.26	99.04	105.36
12000	97.89	105.92	94.68	84.76	56.25	69.17	94.01	95.25
12750	102.02	101.52	97.61	72.67	55.43	67.81	104.90	103.55
13500	104.04	101.61	110.33	72.26	54.41	65.72	95.18	96.63
14250	112.02	106.26	96.11	78.80	53.41	63.28	101.89	102.60
15000	100.70	102.84	95.58	67.15	52.35	61.16	97.23	100.65
15750	109.24	100.32	98.84	64.32	51.24	58.82	91.21	90.98
16500	106.73	114.12	100.95	74.46	50.57	57.51	98.63	108.57
17250	106.03	99.20	96.34	69.09	50.29	56.73	101.37	102.19
18000	96.36	97.53	97.04	68.75	50.44	56.20	102.10	103.43
18750	101.93	101.95	92.78	77.69	50.40	55.28	93.02	92.93
19500	107.66	95.04	91.20	70.55	49.08	53.19	90.88	95.46
20250	100.56	94.84	87.33	67.31	47.99	51.64	94.99	100.64
21000	101.49	94.91	94.48	72.80	48.57	51.98	93.78	103.95
21500	99.03	103.84	91.48	74.49	48.65	51.75	97.78	97.95
22000	100.00	97.34	87.24	70.61	48.49	51.40	97.59	100.23
22500	98.88	93.42	85.40	70.66	48.71	51.23	94.70	97.35
23000	98.96	109.03	89.56	73.85	48.94	51.35	97.74	101.83
23500	103.16	108.51	100.45	82.55	48.45	50.69	101.61	104.95
24000	96.27	95.73	94.14	85.41	47.73	49.64	95.77	91.65
24500	99.10	92.94	99.87	81.22	47.77	49.30	88.68	92.99
25000	95.74	96.36	102.17	82.38	48.37	49.57	101.33	100.32
25500	94.83	101.84	99.54	89.89	48.96	50.02	96.26	106.70
26000	106.13	97.91	98.86	90.76	49.06	49.94	113.84	109.79
26500	100.63	102.33	93.17	81.17	49.14	49.90	104.35	93.18
27000	122.11	89.82	97.51	80.04	49.77	50.48	97.84	96.48
27500	90.92	89.68	95.99	77.13	50.56	51.40	91.68	98.89
28000	94.75	89.18	96.80	76.79	51.24	52.29	93.14	85.47
28500	86.14	92.66	90.48	75.07	51.68	53.20	94.64	86.33
29000	87.41	85.91	87.70	71.63	52.86	54.69	92.31	90.54
29500	88.17	106.80	101.42	69.94	54.86	56.80	89.34	93.80
30000	93.11	95.12	88.66	70.57	56.57	58.54	95.57	96.40

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Solid State USB SP8T Switch

USB-1SP8T-34

Typical Performance Data

TEST CONDITIONS: @Temperature = +50°C, Pin=8dBm

Frequency (MHz)	Insertion Loss							
	(dB)							
	COM-J1	COM-J2	COM-J3	COM-J4	COM-J5	COM-J6	COM-J7	COM-J8
100	1.77	1.77	1.76	1.75	1.74	1.74	1.74	1.74
500	2.05	2.05	2.01	2.00	1.99	1.99	2.02	2.02
1000	2.23	2.23	2.15	2.15	2.13	2.14	2.20	2.20
1500	2.31	2.32	2.28	2.28	2.27	2.27	2.29	2.28
2000	2.46	2.47	2.37	2.37	2.35	2.36	2.44	2.44
2500	2.59	2.60	2.40	2.40	2.38	2.39	2.57	2.57
3000	2.63	2.64	2.52	2.53	2.49	2.50	2.61	2.61
3500	2.88	2.89	2.72	2.74	2.69	2.71	2.87	2.88
4000	2.96	2.97	2.86	2.88	2.84	2.85	2.94	2.93
4500	2.99	2.99	2.90	2.92	2.89	2.90	2.97	2.97
5000	3.18	3.17	2.93	2.96	2.91	2.92	3.15	3.15
5500	3.30	3.31	2.99	3.03	2.97	2.99	3.27	3.26
6000	3.32	3.33	3.05	3.08	3.03	3.05	3.30	3.30
6500	3.41	3.40	3.14	3.18	3.11	3.13	3.37	3.35
7000	3.62	3.63	3.29	3.35	3.23	3.26	3.57	3.56
7500	3.80	3.80	3.52	3.60	3.44	3.48	3.77	3.77
8000	3.76	3.75	3.73	3.80	3.66	3.69	3.72	3.71
8500	3.95	3.97	3.86	3.90	3.82	3.82	3.94	3.94
9000	4.33	4.31	3.87	3.90	3.84	3.83	4.33	4.31
9750	4.31	4.30	3.92	3.99	3.89	3.92	4.27	4.24
10500	4.71	4.68	4.23	4.27	4.19	4.20	4.66	4.63
11250	4.77	4.76	4.43	4.48	4.38	4.37	4.70	4.68
12000	4.94	4.93	4.50	4.58	4.45	4.47	4.87	4.86
12750	5.06	5.06	4.58	4.66	4.54	4.57	5.01	5.01
13500	5.17	5.16	4.68	4.73	4.64	4.68	5.14	5.12
14250	5.27	5.26	4.76	4.82	4.73	4.78	5.26	5.24
15000	5.39	5.36	4.84	4.88	4.80	4.87	5.38	5.35
15750	5.49	5.47	4.93	4.96	4.90	4.95	5.46	5.44
16500	5.61	5.58	5.01	5.05	4.97	5.02	5.56	5.54
17250	5.74	5.71	5.07	5.13	5.03	5.11	5.68	5.67
18000	5.87	5.83	5.18	5.25	5.14	5.26	5.79	5.79
18750	6.00	5.95	5.25	5.31	5.21	5.33	5.92	5.92
19500	6.11	6.07	5.32	5.39	5.26	5.40	6.02	6.02
20250	6.22	6.16	5.44	5.46	5.36	5.49	6.17	6.15
21000	6.39	6.33	5.52	5.57	5.44	5.58	6.31	6.28
21500	6.54	6.49	5.68	5.73	5.58	5.72	6.50	6.47
22000	6.62	6.56	5.83	5.87	5.70	5.85	6.56	6.53
22500	6.83	6.79	5.98	6.01	5.86	6.02	6.76	6.75
23000	7.00	6.96	6.12	6.15	6.02	6.18	6.94	6.93
23500	7.12	7.05	6.11	6.15	6.02	6.17	7.00	6.98
24000	7.26	7.21	6.23	6.28	6.13	6.27	7.18	7.19
24500	7.23	7.17	6.36	6.42	6.26	6.43	7.11	7.09
25000	7.43	7.34	6.32	6.38	6.23	6.41	7.28	7.26
25500	7.45	7.39	6.33	6.38	6.25	6.40	7.36	7.36
26000	7.44	7.38	6.45	6.47	6.35	6.49	7.30	7.27
26500	7.53	7.49	6.57	6.59	6.46	6.60	7.43	7.40
27000	7.67	7.64	6.70	6.72	6.58	6.71	7.57	7.54
27500	7.81	7.79	6.84	6.86	6.71	6.83	7.69	7.68
28000	7.87	7.88	7.00	7.03	6.84	6.96	7.79	7.80
28500	8.08	8.08	7.19	7.24	7.03	7.14	7.97	7.96
29000	8.35	8.38	7.37	7.45	7.20	7.34	8.21	8.28
29500	8.36	8.42	7.48	7.56	7.31	7.46	8.32	8.35
30000	8.49	8.51	7.50	7.55	7.36	7.48	8.41	8.41

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Solid State USB SP8T Switch

USB-1SP8T-34

Typical Performance Data

TEST CONDITIONS: @Temperature = +50°C, Pin=8dBm

Frequency (MHz)	VSWR, Active Ports (:1)								
	COM	J1	J2	J3	J4	J5	J6	J7	J8
100	1.24	1.23	1.23	1.23	1.23	1.22	1.22	1.22	1.22
500	1.18	1.15	1.15	1.19	1.19	1.19	1.19	1.15	1.15
1000	1.10	1.06	1.06	1.08	1.08	1.09	1.08	1.05	1.05
1500	1.13	1.14	1.14	1.10	1.10	1.10	1.11	1.11	1.11
2000	1.13	1.17	1.17	1.15	1.15	1.15	1.16	1.17	1.18
2500	1.13	1.19	1.19	1.03	1.02	1.05	1.04	1.19	1.19
3000	1.17	1.11	1.11	1.21	1.23	1.19	1.21	1.12	1.14
3500	1.45	1.41	1.41	1.43	1.45	1.41	1.43	1.43	1.44
4000	1.29	1.22	1.21	1.43	1.45	1.44	1.45	1.22	1.21
4500	1.30	1.18	1.18	1.25	1.25	1.27	1.26	1.20	1.22
5000	1.51	1.38	1.36	1.05	1.03	1.06	1.05	1.38	1.38
5500	1.41	1.20	1.20	1.12	1.13	1.13	1.14	1.18	1.16
6000	1.26	1.08	1.08	1.17	1.19	1.20	1.20	1.11	1.13
6500	1.31	1.19	1.17	1.18	1.19	1.19	1.18	1.15	1.13
7000	1.40	1.26	1.29	1.25	1.24	1.20	1.22	1.24	1.25
7500	1.31	1.29	1.31	1.39	1.38	1.32	1.35	1.33	1.35
8000	1.13	1.10	1.07	1.51	1.50	1.47	1.47	1.11	1.11
8500	1.40	1.28	1.32	1.51	1.50	1.52	1.47	1.33	1.35
9000	1.55	1.52	1.51	1.33	1.31	1.37	1.29	1.59	1.58
9750	1.22	1.10	1.08	1.07	1.10	1.06	1.10	1.12	1.12
10500	1.52	1.40	1.37	1.35	1.37	1.34	1.33	1.43	1.40
11250	1.18	1.10	1.11	1.31	1.29	1.31	1.23	1.09	1.09
12000	1.24	1.13	1.16	1.22	1.20	1.20	1.18	1.13	1.14
12750	1.11	1.13	1.17	1.18	1.16	1.17	1.20	1.20	1.21
13500	1.13	1.11	1.11	1.13	1.10	1.14	1.15	1.22	1.20
14250	1.19	1.09	1.08	1.05	1.02	1.06	1.04	1.20	1.16
15000	1.18	1.15	1.10	1.08	1.04	1.08	1.07	1.24	1.16
15750	1.26	1.10	1.08	1.18	1.10	1.19	1.11	1.13	1.07
16500	1.24	1.24	1.23	1.27	1.20	1.31	1.21	1.25	1.19
17250	1.25	1.11	1.11	1.21	1.18	1.26	1.21	1.10	1.08
18000	1.33	1.21	1.23	1.06	1.03	1.02	1.06	1.19	1.17
18750	1.33	1.07	1.07	1.21	1.20	1.20	1.14	1.09	1.09
19500	1.35	1.14	1.17	1.12	1.15	1.16	1.15	1.10	1.09
20250	1.28	1.15	1.13	1.23	1.15	1.24	1.24	1.22	1.23
21000	1.16	1.24	1.24	1.13	1.06	1.16	1.15	1.28	1.24
21500	1.22	1.25	1.25	1.19	1.13	1.13	1.12	1.34	1.32
22000	1.28	1.08	1.10	1.34	1.27	1.21	1.20	1.17	1.16
22500	1.39	1.25	1.29	1.38	1.31	1.25	1.24	1.33	1.34
23000	1.54	1.21	1.28	1.34	1.30	1.27	1.26	1.33	1.35
23500	1.59	1.07	1.04	1.19	1.16	1.17	1.16	1.06	1.12
24000	1.74	1.20	1.24	1.04	1.09	1.02	1.11	1.28	1.37
24500	1.57	1.08	1.10	1.19	1.25	1.14	1.25	1.10	1.15
25000	1.64	1.29	1.21	1.15	1.22	1.11	1.23	1.21	1.26
25500	1.60	1.10	1.09	1.06	1.05	1.06	1.13	1.16	1.26
26000	1.36	1.20	1.15	1.22	1.14	1.17	1.20	1.09	1.08
26500	1.27	1.23	1.21	1.30	1.23	1.22	1.26	1.24	1.27
27000	1.26	1.08	1.09	1.28	1.22	1.20	1.24	1.14	1.16
27500	1.32	1.17	1.16	1.26	1.21	1.23	1.28	1.11	1.16
28000	1.27	1.17	1.23	1.19	1.15	1.18	1.23	1.23	1.30
28500	1.38	1.01	1.10	1.13	1.12	1.12	1.18	1.18	1.19
29000	1.58	1.17	1.23	1.26	1.28	1.21	1.29	1.19	1.32
29500	1.49	1.23	1.38	1.38	1.40	1.32	1.41	1.42	1.44
30000	1.52	1.08	1.16	1.34	1.36	1.31	1.35	1.21	1.21

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Solid State USB SP8T Switch

USB-1SP8T-34

Typical Performance Data

TEST CONDITIONS: @Temperature = +50°C, Pin=8dBm

Frequency (MHz)	VSWR, Internally Terminated Ports (:1)							
	J1	J2	J3	J4	J5	J6	J7	J8
100	1.08	1.08	1.07	1.07	1.08	1.08	1.09	1.09
500	1.10	1.10	1.10	1.10	1.10	1.10	1.11	1.11
1000	1.15	1.16	1.16	1.16	1.15	1.16	1.17	1.17
1500	1.20	1.20	1.21	1.21	1.20	1.20	1.21	1.21
2000	1.22	1.22	1.23	1.24	1.22	1.23	1.24	1.24
2500	1.22	1.23	1.23	1.24	1.23	1.23	1.24	1.24
3000	1.21	1.21	1.21	1.22	1.21	1.22	1.22	1.22
3500	1.18	1.17	1.17	1.18	1.18	1.18	1.18	1.18
4000	1.14	1.13	1.13	1.13	1.14	1.13	1.14	1.13
4500	1.09	1.09	1.07	1.07	1.08	1.08	1.08	1.07
5000	1.06	1.05	1.03	1.02	1.04	1.03	1.04	1.02
5500	1.05	1.06	1.06	1.04	1.04	1.04	1.05	1.06
6000	1.07	1.09	1.10	1.08	1.08	1.08	1.09	1.11
6500	1.10	1.13	1.14	1.13	1.13	1.13	1.15	1.17
7000	1.14	1.16	1.17	1.17	1.17	1.17	1.19	1.21
7500	1.18	1.19	1.20	1.20	1.21	1.20	1.24	1.25
8000	1.22	1.21	1.23	1.23	1.25	1.22	1.27	1.28
8500	1.25	1.23	1.25	1.24	1.27	1.24	1.30	1.29
9000	1.26	1.23	1.25	1.24	1.28	1.23	1.30	1.29
9750	1.24	1.20	1.22	1.21	1.25	1.18	1.26	1.23
10500	1.18	1.15	1.16	1.14	1.18	1.10	1.18	1.15
11250	1.11	1.13	1.11	1.08	1.11	1.06	1.10	1.09
12000	1.11	1.15	1.12	1.10	1.11	1.13	1.12	1.14
12750	1.14	1.16	1.15	1.13	1.15	1.18	1.19	1.19
13500	1.14	1.13	1.15	1.14	1.17	1.19	1.23	1.20
14250	1.14	1.09	1.15	1.11	1.18	1.15	1.23	1.16
15000	1.17	1.13	1.18	1.12	1.20	1.13	1.23	1.15
15750	1.22	1.19	1.23	1.17	1.24	1.15	1.24	1.17
16500	1.26	1.25	1.27	1.22	1.26	1.20	1.25	1.21
17250	1.23	1.23	1.23	1.20	1.22	1.19	1.20	1.19
18000	1.14	1.14	1.12	1.12	1.12	1.13	1.10	1.11
18750	1.08	1.06	1.04	1.04	1.05	1.10	1.07	1.08
19500	1.15	1.11	1.15	1.11	1.15	1.17	1.19	1.18
20250	1.21	1.18	1.24	1.18	1.22	1.22	1.27	1.27
21000	1.20	1.18	1.27	1.19	1.24	1.22	1.29	1.28
21500	1.14	1.14	1.22	1.14	1.19	1.16	1.23	1.22
22000	1.07	1.08	1.16	1.08	1.12	1.08	1.16	1.15
22500	1.04	1.02	1.08	1.04	1.03	1.03	1.07	1.07
23000	1.14	1.11	1.09	1.13	1.07	1.14	1.09	1.13
23500	1.23	1.20	1.18	1.23	1.16	1.25	1.18	1.25
24000	1.29	1.26	1.26	1.32	1.24	1.35	1.27	1.35
24500	1.32	1.30	1.32	1.38	1.29	1.41	1.33	1.43
25000	1.28	1.28	1.32	1.39	1.29	1.43	1.34	1.44
25500	1.19	1.21	1.27	1.34	1.25	1.38	1.30	1.40
26000	1.12	1.16	1.21	1.28	1.19	1.30	1.25	1.33
26500	1.07	1.10	1.13	1.19	1.11	1.20	1.19	1.22
27000	1.14	1.11	1.03	1.10	1.05	1.08	1.13	1.10
27500	1.21	1.15	1.06	1.07	1.09	1.04	1.09	1.06
28000	1.28	1.20	1.15	1.14	1.16	1.15	1.10	1.16
28500	1.30	1.25	1.23	1.24	1.23	1.27	1.13	1.27
29000	1.31	1.30	1.30	1.35	1.29	1.38	1.20	1.39
29500	1.32	1.37	1.39	1.46	1.36	1.50	1.31	1.52
30000	1.34	1.46	1.46	1.56	1.43	1.58	1.44	1.62

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Solid State USB SP8T Switch

USB-1SP8T-34

Typical Performance Data

TEST CONDITIONS: @Temperature = +50°C, Pin=8dBm

Frequency (MHz)	Isolation @ Active states (dB)							
	COM-1	COM-3	COM-5	COM-7	J2-J3	J4-J5	J6-J7	J7-J8
100	91.60	90.06	86.71	87.81	97.26	96.87	100.79	86.46
500	79.33	77.86	75.73	79.04	97.51	101.68	106.87	82.31
1000	72.12	71.27	69.09	71.95	95.49	99.01	97.42	76.02
1500	68.79	68.24	66.57	68.43	100.18	102.49	104.15	71.64
2000	67.27	66.34	64.75	66.96	100.05	101.89	105.93	69.46
2500	66.05	65.40	63.84	65.83	94.60	92.54	103.47	69.82
3000	65.11	64.62	63.00	65.72	96.92	97.47	93.44	67.45
3500	64.56	64.46	62.79	65.11	104.64	97.57	94.32	66.37
4000	64.97	64.37	62.47	64.66	99.98	100.47	98.53	66.69
4500	64.94	64.09	62.42	66.01	112.09	98.99	97.00	67.12
5000	64.96	63.93	62.46	65.52	101.43	101.43	96.38	64.39
5500	64.33	63.38	62.89	64.64	97.93	85.72	98.92	65.26
6000	63.67	62.76	62.98	64.29	89.92	85.07	103.31	66.17
6500	62.97	62.49	63.04	63.31	94.44	83.65	103.58	66.04
7000	62.83	62.19	63.11	62.77	100.00	83.68	110.74	64.27
7500	62.87	62.22	63.37	62.52	100.79	85.37	92.82	64.63
8000	62.66	61.99	62.94	62.24	104.14	88.81	106.75	67.20
8500	63.00	61.58	62.45	62.18	100.24	90.51	98.65	66.78
9000	63.32	61.12	61.99	62.06	98.88	93.30	99.03	64.83
9750	63.34	60.81	61.34	61.93	99.85	89.30	101.44	67.71
10500	63.88	60.82	60.78	62.34	92.09	91.38	105.84	67.91
11250	64.22	60.42	59.67	62.31	91.98	90.71	100.42	67.32
12000	64.37	60.05	58.64	62.36	86.96	90.34	90.82	68.52
12750	64.36	59.86	57.89	62.00	90.77	92.97	90.53	68.60
13500	64.94	59.99	57.15	61.44	84.98	92.81	83.41	68.10
14250	65.17	60.63	56.57	60.99	80.23	97.51	79.42	66.84
15000	64.21	61.18	56.25	61.70	88.61	87.88	78.43	68.38
15750	63.57	59.87	55.57	61.19	82.96	80.76	79.70	65.66
16500	62.81	58.29	54.60	60.74	87.94	81.02	82.64	64.46
17250	62.10	57.60	53.57	60.17	89.15	83.89	89.23	64.29
18000	61.55	57.46	53.32	59.86	87.89	91.10	91.36	61.43
18750	60.77	57.10	53.39	59.22	93.43	89.25	86.63	62.45
19500	60.09	56.24	53.23	58.92	82.06	88.28	87.01	60.39
20250	59.98	55.51	52.57	58.95	86.06	85.60	83.95	60.41
21000	59.65	55.69	52.33	58.71	84.78	82.03	91.43	60.23
21500	59.58	55.73	52.36	58.63	86.22	84.49	85.43	58.16
22000	59.05	55.52	52.22	58.10	88.33	85.19	85.84	57.86
22500	59.08	55.46	52.18	58.09	91.43	89.95	84.12	58.77
23000	59.31	55.96	52.19	58.31	90.90	93.35	93.11	58.22
23500	59.58	56.74	52.25	58.35	94.42	91.59	97.89	56.58
24000	59.64	56.60	52.81	58.43	97.58	92.50	94.93	55.46
24500	58.72	56.14	53.54	58.22	98.97	89.01	93.46	56.00
25000	58.06	55.66	53.98	58.10	95.47	95.71	98.26	53.90
25500	57.80	55.20	53.80	57.48	97.06	92.54	96.32	52.79
26000	57.65	54.82	53.62	56.92	105.31	94.90	90.64	53.47
26500	58.09	54.75	53.68	57.07	96.08	89.49	92.24	53.65
27000	58.99	55.21	54.25	57.58	88.55	98.05	88.17	53.15
27500	60.13	56.13	55.21	58.22	104.66	88.49	93.55	52.89
28000	60.65	57.40	56.21	58.90	95.01	81.43	95.29	53.28
28500	60.97	58.76	56.63	59.37	84.68	78.03	83.99	54.13
29000	61.34	59.23	56.67	59.72	72.11	76.16	92.48	53.59
29500	61.74	59.80	56.85	59.92	82.53	77.91	90.36	53.25
30000	62.02	59.32	56.71	60.02	90.42	78.17	83.91	54.01

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Solid State USB SP8T Switch

USB-1SP8T-34

Typical Performance Data

TEST CONDITIONS: @Temperature = +50°C, Pin=8dBm

Frequency (MHz)	Isolation @ Disconnected state (dB)							
	COM-1	COM-2	COM-3	COM-4	COM-5	COM-6	COM-7	COM-8
100	106.55	97.74	111.16	107.01	82.00	82.06	104.34	98.68
500	105.08	107.70	106.55	94.09	76.50	75.65	99.09	110.25
1000	106.77	96.98	96.37	91.94	68.88	68.46	95.11	102.46
1500	96.49	99.53	95.09	97.69	66.62	66.14	98.83	104.49
2000	95.90	96.94	102.16	98.69	65.10	64.17	95.47	110.86
2500	101.09	106.81	101.13	93.48	63.36	62.31	99.74	97.08
3000	115.28	100.15	99.21	89.77	62.42	61.04	100.32	105.27
3500	95.29	102.21	106.89	89.72	62.33	60.54	104.03	99.16
4000	99.29	98.03	107.42	87.30	63.54	61.16	96.31	99.89
4500	109.56	95.65	97.81	89.81	64.84	61.73	97.98	103.17
5000	101.13	103.31	101.26	87.04	65.89	62.06	102.27	98.82
5500	104.64	100.61	104.95	79.88	66.04	61.87	102.11	102.65
6000	101.96	104.29	100.54	76.19	66.00	61.41	102.40	103.23
6500	102.10	102.18	95.78	81.46	65.39	60.83	97.83	98.81
7000	98.27	102.85	98.68	91.88	65.09	60.93	117.10	103.96
7500	100.12	100.34	97.38	84.77	65.41	62.17	107.49	100.85
8000	105.37	110.17	95.23	84.58	65.61	63.66	102.75	104.48
8500	99.05	99.54	101.67	86.26	65.32	65.06	93.54	100.26
9000	100.19	95.64	96.77	92.00	64.31	66.21	104.73	103.23
9750	105.48	109.39	97.11	96.77	61.75	66.62	105.51	103.19
10500	96.43	94.63	98.43	83.06	58.69	66.94	106.03	101.03
11250	100.29	100.95	99.43	85.97	57.46	68.63	101.33	102.87
12000	103.25	102.31	104.64	86.38	56.78	70.10	103.07	101.10
12750	109.25	100.43	101.00	75.13	55.80	69.32	107.02	96.98
13500	107.02	100.96	100.20	73.05	55.02	67.21	95.62	103.14
14250	99.56	100.82	106.06	77.19	53.92	64.81	100.28	100.89
15000	104.84	102.19	85.54	65.90	52.88	62.28	99.16	96.42
15750	107.31	100.27	83.64	64.86	51.82	59.71	92.68	92.56
16500	108.92	110.66	99.53	75.37	50.96	58.44	102.54	100.98
17250	111.51	104.38	92.30	71.23	50.63	57.65	102.54	102.34
18000	98.25	99.71	98.42	70.53	50.74	57.24	100.39	108.10
18750	107.32	98.28	93.97	80.74	50.62	56.12	93.69	104.43
19500	100.38	99.41	93.73	73.32	49.32	54.00	91.92	91.64
20250	106.19	98.74	87.68	69.59	48.46	52.50	92.79	94.44
21000	109.42	93.76	90.87	74.82	48.93	52.64	98.68	110.26
21500	106.22	105.58	87.93	75.60	48.97	52.57	94.55	109.76
22000	99.94	94.25	86.22	71.88	48.91	52.17	101.51	119.70
22500	100.58	97.60	88.31	70.82	49.08	52.06	99.36	95.69
23000	98.17	93.53	87.68	73.49	49.26	51.94	94.81	95.81
23500	111.99	97.30	103.95	81.40	48.74	51.36	99.23	98.81
24000	107.32	95.13	98.88	81.93	48.18	50.36	103.45	99.20
24500	110.05	96.68	97.42	78.56	48.28	50.00	96.00	101.58
25000	100.42	99.02	100.02	80.28	48.91	50.26	104.57	107.81
25500	99.03	96.01	95.56	84.78	49.46	50.60	97.40	95.95
26000	101.34	101.93	107.10	87.23	49.67	50.55	99.23	100.27
26500	108.86	101.20	89.38	78.79	49.76	50.57	95.59	103.21
27000	89.32	94.45	98.60	77.20	50.39	51.18	90.71	90.69
27500	87.65	103.89	86.56	74.41	51.27	51.93	91.39	94.78
28000	84.36	88.29	86.89	77.95	51.77	53.00	90.24	89.81
28500	88.11	91.49	106.12	75.03	52.51	53.64	93.87	90.38
29000	87.32	91.43	83.57	69.43	53.52	55.55	89.10	96.65
29500	98.79	92.94	88.31	68.39	55.60	57.37	107.18	88.93
30000	91.61	92.66	87.23	69.98	57.60	59.75	95.54	92.89

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 www.minicircuits.com/MCLStore/terms.jsp

