

Solid State USB RF DUAL SP4T Switch

USB-2SP4T-63H

Typical Performance Data

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

FREQUENCY (MHz)	INSERTION LOSS (dB)			
	COM-J1	COM-J2	COM-J3	COM-J4
0.1	1.70	2.44	1.94	2.19
0.5	1.32	2.05	1.55	1.80
1.0	1.32	2.05	1.55	1.80
2.0	1.34	2.07	1.57	1.82
4.0	1.36	2.08	1.58	1.84
10.0	1.37	2.09	1.60	1.85
50.0	1.41	2.11	1.62	1.88
100.0	1.45	2.15	1.66	1.92
200.0	1.50	2.19	1.70	1.97
300.0	1.54	2.22	1.72	2.01
400.0	1.59	2.24	1.74	2.05
500.0	1.65	2.27	1.76	2.10
600.0	1.71	2.29	1.79	2.15
800.0	1.83	2.35	1.85	2.26
1000.0	1.93	2.41	1.92	2.36
1200.0	2.00	2.48	1.98	2.42
1400.0	2.03	2.54	2.04	2.45
1600.0	2.02	2.60	2.09	2.45
1800.0	2.01	2.64	2.13	2.44
2000.0	1.99	2.67	2.16	2.43
2200.0	2.00	2.69	2.19	2.45
2400.0	2.02	2.71	2.21	2.49
2600.0	2.07	2.73	2.23	2.53
2800.0	2.12	2.76	2.26	2.58
3000.0	2.17	2.79	2.29	2.62
3200.0	2.22	2.82	2.32	2.66
3400.0	2.26	2.85	2.36	2.72
3600.0	2.33	2.89	2.40	2.79
3800.0	2.41	2.93	2.44	2.86
4000.0	2.48	2.95	2.47	2.92
4200.0	2.56	2.99	2.51	2.99
4400.0	2.62	3.01	2.54	3.03
4600.0	2.67	3.03	2.56	3.03
4800.0	2.70	3.04	2.57	3.02
5000.0	2.71	3.05	2.58	3.02
5200.0	2.75	3.07	2.61	3.04
5400.0	2.77	3.10	2.63	3.06
5600.0	2.80	3.16	2.67	3.11
5800.0	2.85	3.19	2.73	3.16
5900.0	2.87	3.20	2.75	3.18
6000.0	2.90	3.21	2.78	3.21
6200.0	3.00	3.24	2.82	3.29
6400.0	3.17	3.27	2.85	3.37
6600.0	3.38	3.31	2.92	3.51
6800.0	3.52	3.40	3.03	3.61
7000.0	3.56	3.57	3.25	3.68
7200.0	3.49	3.83	3.53	3.72
7400.0	3.42	4.14	3.82	3.80
7600.0	3.60	4.46	4.08	4.11
7800.0	4.21	4.76	4.34	4.76
8000.0	4.99	4.96	4.48	5.39

Notes

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FREQUENCY (MHz)	VSWR, Active Ports					VSWR, Internally Terminated Ports			
	COM	J1	(:1)		J4	(:1)			
			J2	J3		J1	J2	J3	J4
0.1	1.88	1.89	1.74	1.84	1.80	1.41	1.41	1.41	1.42
0.5	1.32	1.33	1.18	1.27	1.22	1.16	1.17	1.16	1.16
1.0	1.29	1.30	1.14	1.24	1.19	1.15	1.15	1.14	1.14
2.0	1.28	1.29	1.13	1.22	1.17	1.14	1.14	1.13	1.13
4.0	1.28	1.28	1.12	1.21	1.16	1.13	1.14	1.13	1.13
10.0	1.27	1.27	1.11	1.21	1.16	1.13	1.13	1.13	1.13
50.0	1.28	1.27	1.12	1.21	1.16	1.13	1.14	1.13	1.13
100.0	1.28	1.28	1.12	1.22	1.17	1.13	1.14	1.13	1.14
200.0	1.28	1.27	1.12	1.22	1.17	1.14	1.15	1.14	1.15
300.0	1.26	1.25	1.11	1.21	1.17	1.14	1.14	1.14	1.14
400.0	1.25	1.24	1.11	1.19	1.18	1.13	1.14	1.13	1.13
500.0	1.25	1.23	1.11	1.19	1.19	1.13	1.14	1.13	1.13
600.0	1.23	1.21	1.11	1.18	1.21	1.13	1.14	1.13	1.14
800.0	1.22	1.19	1.13	1.16	1.27	1.13	1.14	1.13	1.12
1000.0	1.18	1.19	1.14	1.14	1.31	1.13	1.14	1.13	1.13
1200.0	1.17	1.22	1.16	1.13	1.35	1.14	1.14	1.14	1.13
1400.0	1.16	1.25	1.20	1.13	1.37	1.14	1.14	1.14	1.12
1600.0	1.18	1.26	1.24	1.15	1.36	1.15	1.14	1.13	1.12
1800.0	1.22	1.28	1.27	1.16	1.32	1.15	1.14	1.13	1.12
2000.0	1.29	1.26	1.29	1.17	1.27	1.14	1.13	1.14	1.12
2200.0	1.36	1.22	1.29	1.16	1.22	1.15	1.13	1.14	1.12
2400.0	1.42	1.19	1.30	1.15	1.18	1.15	1.13	1.14	1.13
2600.0	1.44	1.15	1.30	1.15	1.15	1.14	1.13	1.14	1.13
2800.0	1.43	1.13	1.30	1.13	1.13	1.14	1.12	1.14	1.12
3000.0	1.36	1.13	1.29	1.11	1.11	1.14	1.12	1.15	1.13
3200.0	1.26	1.10	1.29	1.11	1.09	1.14	1.11	1.16	1.13
3400.0	1.15	1.07	1.30	1.12	1.09	1.15	1.11	1.16	1.12
3600.0	1.11	1.03	1.30	1.13	1.13	1.15	1.12	1.16	1.12
3800.0	1.19	1.03	1.31	1.14	1.18	1.17	1.13	1.17	1.13
4000.0	1.29	1.09	1.32	1.16	1.25	1.19	1.13	1.18	1.14
4200.0	1.40	1.17	1.32	1.17	1.31	1.19	1.14	1.19	1.15
4400.0	1.48	1.23	1.33	1.20	1.38	1.20	1.15	1.20	1.15
4600.0	1.51	1.30	1.34	1.19	1.39	1.22	1.16	1.20	1.15
4800.0	1.50	1.37	1.34	1.19	1.38	1.23	1.18	1.23	1.18
5000.0	1.47	1.41	1.33	1.19	1.36	1.25	1.20	1.26	1.20
5200.0	1.44	1.44	1.32	1.23	1.33	1.28	1.22	1.29	1.21
5400.0	1.38	1.45	1.33	1.25	1.28	1.31	1.24	1.31	1.23
5600.0	1.33	1.42	1.37	1.26	1.23	1.33	1.28	1.35	1.27
5800.0	1.26	1.36	1.37	1.29	1.19	1.35	1.29	1.39	1.29
5900.0	1.21	1.32	1.36	1.31	1.18	1.36	1.29	1.41	1.30
6000.0	1.13	1.31	1.35	1.32	1.20	1.37	1.30	1.43	1.31
6200.0	1.04	1.38	1.33	1.31	1.36	1.38	1.33	1.45	1.31
6400.0	1.22	1.60	1.32	1.27	1.55	1.38	1.35	1.43	1.28
6600.0	1.41	1.88	1.36	1.33	1.76	1.36	1.38	1.43	1.28
6800.0	1.52	2.07	1.47	1.47	1.87	1.35	1.36	1.43	1.29
7000.0	1.51	2.07	1.66	1.72	1.83	1.33	1.36	1.42	1.28
7200.0	1.33	1.85	1.96	2.01	1.64	1.32	1.35	1.40	1.29
7400.0	1.06	1.52	2.27	2.31	1.49	1.33	1.34	1.35	1.28
7600.0	1.42	1.45	2.50	2.52	1.70	1.35	1.34	1.30	1.27
7800.0	2.08	1.88	2.62	2.59	2.26	1.38	1.37	1.28	1.34
8000.0	2.84	2.47	2.50	2.43	2.88	1.44	1.40	1.28	1.40

Notes

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

FREQUENCY (MHz)	ISOLATION						
	(dB)						
	COM-J1 @J3 Active	COM-J1 @J2 Active	J2-J3 @J3 Active	J2-J3 @J1 Active	J1-J2 @J1 Active	COM-J1 @ Disconnect	COM-J4 @ Disconnect
0.1	96.81	101.06	94.40	93.20	92.87	95.37	93.76
0.5	94.81	103.86	93.57	93.14	94.09	123.17	100.43
1.0	92.41	95.71	97.91	101.69	97.57	92.66	122.67
2.0	94.40	103.08	100.42	100.42	95.00	91.24	99.25
4.0	97.89	95.27	100.09	97.67	96.83	104.70	97.14
10.0	116.53	108.71	107.94	112.83	118.59	107.47	118.56
50.0	107.64	106.43	108.11	111.27	110.38	115.63	108.89
100.0	115.42	105.50	103.96	117.24	110.06	120.91	107.01
200.0	115.18	107.83	101.65	120.79	107.64	121.41	114.63
300.0	112.30	106.71	108.56	116.45	108.51	115.84	113.25
400.0	112.81	113.23	106.08	113.35	108.18	110.14	113.92
500.0	114.58	108.01	103.51	112.89	102.47	122.01	116.32
600.0	114.06	108.37	102.72	111.44	104.22	113.74	113.20
800.0	111.37	108.74	103.33	109.76	100.95	114.02	115.77
1000.0	116.58	106.91	105.32	121.55	101.44	112.11	115.17
1200.0	109.92	103.81	109.03	114.06	100.58	117.21	118.76
1400.0	119.47	103.41	102.89	115.77	96.55	112.04	105.53
1600.0	107.27	111.90	100.80	111.30	95.45	105.37	105.93
1800.0	108.78	119.76	99.32	116.99	94.55	103.62	101.12
2000.0	99.45	107.35	103.47	108.41	95.99	100.79	100.14
2200.0	106.54	100.60	98.99	117.80	94.14	97.64	97.46
2400.0	98.88	97.29	96.19	108.90	92.95	96.90	99.57
2600.0	99.99	95.46	97.71	109.99	92.39	94.76	96.94
2800.0	96.41	92.08	99.52	112.77	92.22	93.59	97.21
3000.0	95.50	89.07	96.48	106.69	90.92	92.90	96.54
3200.0	94.34	86.97	101.21	108.24	88.98	92.22	94.29
3400.0	94.35	84.64	97.63	98.03	89.69	92.48	93.34
3600.0	88.29	82.86	103.77	105.76	87.96	93.46	91.10
3800.0	86.51	81.59	102.71	108.90	87.30	94.55	87.58
4000.0	83.90	79.25	101.77	105.16	86.55	88.90	83.75
4200.0	81.36	77.81	97.07	98.30	86.36	84.78	81.70
4400.0	72.86	72.71	104.38	104.53	85.67	76.19	82.00
4600.0	74.80	72.22	91.20	104.78	91.60	75.67	78.31
4800.0	76.32	73.11	89.21	110.25	91.82	75.83	76.70
5000.0	76.60	72.04	85.30	103.85	93.89	74.48	75.29
5200.0	74.25	71.27	83.50	104.61	95.35	73.00	74.02
5400.0	71.94	70.86	81.62	102.81	86.38	72.21	73.16
5600.0	69.91	70.64	80.73	113.20	84.45	72.02	72.44
5800.0	70.60	71.27	79.02	105.14	82.16	71.85	71.26
5900.0	70.80	71.23	77.80	108.13	80.76	71.26	70.79
6000.0	70.66	70.86	76.99	114.91	79.86	70.79	70.13
6200.0	69.80	69.85	75.33	114.06	78.02	69.98	69.10
6400.0	68.48	68.51	73.79	106.72	76.26	69.08	67.79
6600.0	69.53	68.26	72.49	95.85	73.32	68.41	66.69
6800.0	73.84	65.90	70.23	93.78	73.26	69.31	65.78
7000.0	70.14	64.52	68.84	97.80	72.21	68.50	65.88
7200.0	69.65	63.75	67.86	112.10	68.92	69.75	66.62
7400.0	71.15	64.31	66.50	101.78	67.68	72.49	67.70
7600.0	69.48	65.20	65.21	100.45	66.99	75.35	68.91
7800.0	70.00	66.20	63.97	103.77	66.94	76.75	69.87
8000.0	70.09	66.83	62.60	113.41	67.08	74.03	69.81

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FREQUENCY (MHz)	INSERTION LOSS (dB)			
	COM-J1	COM-J2	COM-J3	COM-J4
0.1	1.74	2.50	1.99	2.25
0.5	1.37	2.12	1.61	1.87
1.0	1.37	2.11	1.61	1.87
2.0	1.40	2.14	1.64	1.89
4.0	1.42	2.15	1.65	1.91
10.0	1.43	2.16	1.66	1.92
50.0	1.46	2.18	1.69	1.95
100.0	1.50	2.22	1.72	1.99
200.0	1.55	2.26	1.76	2.04
300.0	1.61	2.30	1.80	2.10
400.0	1.67	2.33	1.83	2.15
500.0	1.73	2.36	1.86	2.20
600.0	1.80	2.39	1.89	2.26
800.0	1.92	2.45	1.95	2.37
1000.0	2.03	2.52	2.02	2.47
1200.0	2.10	2.59	2.09	2.54
1400.0	2.13	2.66	2.16	2.57
1600.0	2.14	2.72	2.21	2.58
1800.0	2.13	2.77	2.25	2.57
2000.0	2.12	2.81	2.29	2.57
2200.0	2.13	2.83	2.32	2.59
2400.0	2.17	2.86	2.35	2.63
2600.0	2.22	2.88	2.38	2.68
2800.0	2.27	2.91	2.40	2.73
3000.0	2.32	2.94	2.43	2.78
3200.0	2.37	2.97	2.48	2.84
3400.0	2.43	3.00	2.53	2.91
3600.0	2.49	3.05	2.59	2.98
3800.0	2.57	3.09	2.63	3.05
4000.0	2.65	3.14	2.67	3.12
4200.0	2.73	3.18	2.71	3.19
4400.0	2.80	3.20	2.75	3.23
4600.0	2.85	3.23	2.77	3.25
4800.0	2.89	3.25	2.78	3.25
5000.0	2.93	3.27	2.80	3.27
5200.0	2.96	3.30	2.84	3.30
5400.0	2.99	3.33	2.88	3.34
5600.0	3.02	3.36	2.92	3.38
5800.0	3.03	3.40	2.95	3.42
5900.0	3.05	3.41	2.97	3.44
6000.0	3.09	3.42	2.99	3.47
6200.0	3.22	3.45	3.02	3.56
6400.0	3.42	3.49	3.09	3.69
6600.0	3.61	3.55	3.17	3.81
6800.0	3.72	3.66	3.31	3.89
7000.0	3.73	3.84	3.53	3.95
7200.0	3.64	4.08	3.78	3.98
7400.0	3.61	4.36	4.05	4.14
7600.0	3.84	4.65	4.30	4.49
7800.0	4.41	4.90	4.48	5.01
8000.0	5.11	5.11	4.63	5.61

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FREQUENCY (MHz)	VSWR, Active Ports					VSWR, Internally Terminated Ports			
	COM	J1	(:1)		J3	J4	(:1)		
			J2			J1	J2	J3	J4
0.1	1.90	1.91	1.76	1.85	1.81	1.42	1.42	1.42	1.43
0.5	1.34	1.34	1.19	1.28	1.24	1.17	1.18	1.17	1.17
1.0	1.31	1.31	1.15	1.25	1.20	1.15	1.16	1.15	1.16
2.0	1.30	1.30	1.14	1.24	1.19	1.15	1.15	1.14	1.15
4.0	1.29	1.29	1.13	1.23	1.18	1.14	1.15	1.14	1.14
10.0	1.29	1.29	1.13	1.22	1.17	1.14	1.14	1.14	1.14
50.0	1.29	1.29	1.13	1.22	1.17	1.13	1.14	1.13	1.14
100.0	1.29	1.29	1.13	1.23	1.18	1.13	1.14	1.14	1.14
200.0	1.29	1.28	1.13	1.22	1.18	1.13	1.14	1.14	1.14
300.0	1.28	1.27	1.13	1.22	1.19	1.14	1.14	1.14	1.14
400.0	1.27	1.25	1.13	1.21	1.19	1.14	1.15	1.14	1.14
500.0	1.26	1.23	1.13	1.20	1.20	1.14	1.15	1.14	1.14
600.0	1.25	1.21	1.12	1.19	1.21	1.14	1.15	1.14	1.14
800.0	1.22	1.18	1.13	1.17	1.25	1.14	1.15	1.14	1.14
1000.0	1.19	1.18	1.14	1.15	1.29	1.15	1.15	1.14	1.14
1200.0	1.16	1.20	1.16	1.12	1.32	1.15	1.15	1.15	1.14
1400.0	1.15	1.23	1.19	1.12	1.34	1.15	1.15	1.15	1.14
1600.0	1.18	1.26	1.22	1.13	1.34	1.15	1.15	1.15	1.14
1800.0	1.23	1.27	1.25	1.15	1.31	1.15	1.15	1.15	1.13
2000.0	1.30	1.26	1.28	1.16	1.27	1.15	1.14	1.15	1.13
2200.0	1.37	1.23	1.30	1.16	1.22	1.15	1.14	1.15	1.13
2400.0	1.42	1.19	1.31	1.17	1.18	1.15	1.14	1.15	1.12
2600.0	1.44	1.15	1.31	1.16	1.14	1.15	1.13	1.14	1.12
2800.0	1.42	1.12	1.30	1.15	1.12	1.13	1.12	1.14	1.11
3000.0	1.35	1.10	1.29	1.13	1.10	1.14	1.12	1.14	1.11
3200.0	1.25	1.08	1.28	1.11	1.09	1.14	1.12	1.14	1.12
3400.0	1.14	1.06	1.27	1.10	1.08	1.14	1.11	1.15	1.13
3600.0	1.11	1.03	1.27	1.10	1.11	1.16	1.12	1.16	1.13
3800.0	1.20	1.02	1.27	1.11	1.16	1.18	1.12	1.16	1.14
4000.0	1.32	1.06	1.28	1.12	1.21	1.19	1.14	1.18	1.16
4200.0	1.43	1.12	1.29	1.14	1.26	1.21	1.15	1.20	1.17
4400.0	1.50	1.18	1.30	1.16	1.31	1.24	1.16	1.22	1.18
4600.0	1.53	1.28	1.31	1.18	1.35	1.27	1.19	1.24	1.20
4800.0	1.53	1.38	1.33	1.20	1.37	1.29	1.21	1.27	1.22
5000.0	1.51	1.47	1.34	1.24	1.39	1.31	1.23	1.31	1.25
5200.0	1.47	1.53	1.37	1.28	1.38	1.34	1.26	1.33	1.26
5400.0	1.41	1.52	1.39	1.31	1.33	1.35	1.28	1.35	1.27
5600.0	1.34	1.46	1.40	1.33	1.26	1.37	1.30	1.38	1.28
5800.0	1.20	1.35	1.40	1.33	1.21	1.37	1.31	1.41	1.30
5900.0	1.13	1.31	1.38	1.33	1.22	1.36	1.32	1.42	1.30
6000.0	1.05	1.31	1.37	1.30	1.27	1.36	1.32	1.41	1.29
6200.0	1.11	1.44	1.33	1.25	1.42	1.36	1.33	1.40	1.27
6400.0	1.28	1.69	1.31	1.27	1.64	1.35	1.32	1.42	1.29
6600.0	1.43	1.93	1.36	1.37	1.83	1.34	1.32	1.40	1.27
6800.0	1.50	2.06	1.49	1.52	1.86	1.31	1.31	1.38	1.26
7000.0	1.43	1.98	1.70	1.74	1.75	1.29	1.30	1.36	1.25
7200.0	1.24	1.74	1.94	1.96	1.53	1.29	1.30	1.32	1.23
7400.0	1.09	1.44	2.18	2.19	1.45	1.29	1.30	1.30	1.25
7600.0	1.49	1.46	2.36	2.41	1.73	1.31	1.30	1.28	1.29
7800.0	2.07	1.87	2.41	2.41	2.23	1.34	1.31	1.25	1.33
8000.0	2.69	2.40	2.30	2.23	2.71	1.39	1.36	1.24	1.37

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Solid State USB RF DUAL SP4T Switch

USB-2SP4T-63H

Typical Performance Data

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

FREQUENCY (MHz)	ISOLATION						
	(dB)						
	COM-J1 @J3 Active	COM-J1 @J2 Active	J2-J3 @J3 Active	J2-J3 @J1 Active	J1-J2 @J1 Active	COM-J1 @ Disconnect	COM-J4 @ Disconnect
0.1	94.63	101.60	94.76	100.27	101.02	96.45	101.96
0.5	101.86	98.30	97.85	111.13	90.94	100.34	104.22
1.0	110.82	97.71	95.08	95.26	92.83	98.85	97.85
2.0	96.14	97.93	95.19	101.13	105.81	105.70	93.58
4.0	96.38	94.14	92.65	101.88	95.51	90.45	90.62
10.0	119.04	108.27	110.67	108.41	114.68	116.55	108.50
50.0	112.83	108.79	117.84	122.56	119.44	112.78	121.71
100.0	119.40	114.05	109.65	116.25	108.21	111.94	110.74
200.0	112.41	121.33	105.93	112.11	110.75	112.42	115.53
300.0	122.03	112.41	109.75	112.99	113.15	118.29	111.31
400.0	116.16	120.24	121.61	120.98	117.17	112.06	112.64
500.0	110.07	119.42	108.95	111.68	115.74	114.16	114.76
600.0	112.47	119.86	107.29	112.17	109.50	109.88	118.25
800.0	113.73	111.23	113.20	107.26	107.37	111.62	115.43
1000.0	109.60	113.03	107.85	116.92	103.11	107.51	108.50
1200.0	106.48	118.97	105.26	111.14	107.82	112.26	107.95
1400.0	113.13	112.16	110.47	114.89	103.00	107.92	108.35
1600.0	110.44	111.43	110.24	118.38	102.74	115.19	103.93
1800.0	112.77	107.97	101.24	113.11	99.92	106.94	104.34
2000.0	104.59	104.30	107.68	112.93	96.40	100.56	103.16
2200.0	106.68	100.89	103.87	129.86	96.22	101.18	98.69
2400.0	101.31	101.97	103.76	108.20	94.01	96.59	97.52
2600.0	98.31	96.39	102.78	110.65	92.86	96.01	95.78
2800.0	94.36	91.95	101.15	124.47	91.69	95.25	96.91
3000.0	95.23	91.34	102.91	107.89	91.10	93.51	94.32
3200.0	93.41	88.44	102.80	113.28	89.62	95.55	95.07
3400.0	90.96	85.46	99.28	102.08	89.96	94.46	92.73
3600.0	89.49	84.62	103.89	108.06	90.06	96.98	89.49
3800.0	87.87	83.46	101.60	104.08	88.82	95.19	88.37
4000.0	86.43	81.87	106.59	119.59	90.24	92.21	84.98
4200.0	85.85	80.38	96.99	110.22	89.94	87.48	82.22
4400.0	83.49	79.48	96.49	105.70	92.26	84.49	80.38
4600.0	78.82	75.81	91.41	107.81	92.66	77.16	78.43
4800.0	78.45	75.16	88.30	114.91	96.13	76.78	76.66
5000.0	78.69	74.50	85.65	107.22	97.50	75.89	75.34
5200.0	77.80	73.54	84.04	103.50	93.85	74.35	74.22
5400.0	76.23	72.77	81.73	113.56	85.79	73.02	73.32
5600.0	73.90	71.99	80.19	122.09	82.62	71.94	72.48
5800.0	74.14	71.86	78.11	115.91	80.36	71.87	71.37
5900.0	73.97	71.63	77.32	113.49	79.40	71.25	70.84
6000.0	73.59	71.18	76.59	107.10	78.39	70.75	70.29
6200.0	72.54	70.28	74.78	110.40	76.81	70.05	69.25
6400.0	71.25	68.80	73.43	115.06	75.30	69.26	68.08
6600.0	70.10	67.54	71.95	100.96	73.86	68.56	67.11
6800.0	69.87	66.39	70.47	108.38	73.21	68.90	66.25
7000.0	68.62	65.03	69.07	100.82	72.23	69.23	66.36
7200.0	67.71	63.95	68.10	101.48	69.58	70.05	67.03
7400.0	67.72	63.93	66.77	100.65	68.67	71.86	67.99
7600.0	67.83	64.34	65.60	105.61	68.01	73.84	69.02
7800.0	68.09	64.89	64.31	107.13	67.42	74.26	69.73
8000.0	68.01	65.22	62.91	108.63	67.22	73.11	69.67

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Solid State USB RF DUAL SP4T Switch

USB-2SP4T-63H

Typical Performance Data

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

FREQUENCY (MHz)	INSERTION LOSS (dB)			
	COM-J1	COM-J2	COM-J3	COM-J4
0.1	1.80	2.54	2.05	2.30
0.5	1.43	2.17	1.67	1.92
1.0	1.43	2.16	1.67	1.92
2.0	1.46	2.19	1.70	1.95
4.0	1.48	2.20	1.71	1.96
10.0	1.49	2.21	1.73	1.98
50.0	1.52	2.23	1.75	2.01
100.0	1.55	2.27	1.78	2.04
200.0	1.61	2.31	1.82	2.10
300.0	1.68	2.35	1.86	2.16
400.0	1.74	2.38	1.89	2.21
500.0	1.80	2.41	1.92	2.27
600.0	1.87	2.44	1.95	2.33
800.0	2.00	2.51	2.02	2.45
1000.0	2.11	2.58	2.09	2.55
1200.0	2.18	2.66	2.17	2.62
1400.0	2.21	2.73	2.24	2.65
1600.0	2.20	2.79	2.29	2.65
1800.0	2.18	2.83	2.34	2.64
2000.0	2.17	2.87	2.37	2.64
2200.0	2.18	2.89	2.39	2.66
2400.0	2.21	2.91	2.42	2.70
2600.0	2.26	2.94	2.45	2.76
2800.0	2.32	2.96	2.48	2.81
3000.0	2.38	2.99	2.50	2.86
3200.0	2.43	3.03	2.55	2.92
3400.0	2.49	3.07	2.59	2.98
3600.0	2.55	3.11	2.64	3.05
3800.0	2.64	3.16	2.70	3.14
4000.0	2.72	3.19	2.72	3.21
4200.0	2.79	3.22	2.76	3.28
4400.0	2.85	3.24	2.78	3.31
4600.0	2.88	3.26	2.80	3.33
4800.0	2.91	3.28	2.82	3.33
5000.0	2.95	3.29	2.84	3.33
5200.0	2.99	3.33	2.88	3.36
5400.0	3.02	3.37	2.90	3.39
5600.0	3.05	3.42	2.94	3.43
5800.0	3.09	3.45	2.99	3.49
5900.0	3.12	3.47	3.02	3.52
6000.0	3.17	3.48	3.04	3.55
6200.0	3.30	3.52	3.09	3.63
6400.0	3.47	3.56	3.14	3.72
6600.0	3.64	3.62	3.22	3.85
6800.0	3.76	3.72	3.34	3.94
7000.0	3.77	3.88	3.53	4.01
7200.0	3.71	4.12	3.82	4.09
7400.0	3.68	4.38	4.09	4.23
7600.0	3.90	4.67	4.34	4.57
7800.0	4.47	4.95	4.62	5.15
8000.0	5.19	5.20	4.77	5.73

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Solid State USB RF DUAL SP4T Switch

USB-2SP4T-63H

Typical Performance Data

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

FREQUENCY (MHz)	VSWR, Active Ports					VSWR, Internally Terminated Ports			
	COM	J1	(:1)		J4	(:1)			
			J2	J3		J1	J2	J3	J4
0.1	1.90	1.91	1.76	1.86	1.82	1.42	1.43	1.43	1.44
0.5	1.35	1.36	1.20	1.30	1.25	1.18	1.18	1.18	1.18
1.0	1.32	1.33	1.16	1.27	1.21	1.16	1.17	1.16	1.16
2.0	1.31	1.32	1.15	1.25	1.20	1.16	1.16	1.15	1.16
4.0	1.31	1.31	1.14	1.24	1.19	1.15	1.16	1.15	1.15
10.0	1.30	1.30	1.14	1.24	1.19	1.15	1.15	1.15	1.15
50.0	1.30	1.30	1.14	1.24	1.19	1.14	1.15	1.14	1.14
100.0	1.30	1.30	1.14	1.24	1.19	1.14	1.15	1.14	1.14
200.0	1.30	1.29	1.14	1.24	1.19	1.14	1.14	1.14	1.14
300.0	1.30	1.28	1.14	1.23	1.19	1.14	1.15	1.14	1.14
400.0	1.29	1.26	1.14	1.22	1.20	1.15	1.15	1.15	1.15
500.0	1.27	1.24	1.13	1.22	1.20	1.15	1.15	1.15	1.15
600.0	1.26	1.22	1.13	1.20	1.21	1.15	1.15	1.15	1.15
800.0	1.23	1.18	1.13	1.17	1.25	1.15	1.15	1.15	1.14
1000.0	1.20	1.18	1.14	1.15	1.29	1.15	1.15	1.15	1.14
1200.0	1.17	1.21	1.16	1.13	1.33	1.15	1.16	1.15	1.14
1400.0	1.15	1.24	1.19	1.12	1.35	1.16	1.16	1.15	1.14
1600.0	1.17	1.26	1.22	1.14	1.34	1.16	1.16	1.15	1.14
1800.0	1.23	1.28	1.25	1.15	1.30	1.16	1.15	1.15	1.13
2000.0	1.30	1.25	1.27	1.16	1.25	1.16	1.15	1.15	1.13
2200.0	1.38	1.22	1.28	1.16	1.19	1.16	1.15	1.14	1.13
2400.0	1.44	1.18	1.29	1.15	1.14	1.16	1.14	1.15	1.13
2600.0	1.46	1.15	1.28	1.14	1.11	1.15	1.14	1.15	1.13
2800.0	1.45	1.13	1.28	1.12	1.10	1.16	1.13	1.16	1.13
3000.0	1.37	1.12	1.28	1.10	1.08	1.16	1.13	1.16	1.14
3200.0	1.27	1.10	1.27	1.09	1.06	1.16	1.12	1.17	1.14
3400.0	1.16	1.08	1.27	1.09	1.05	1.17	1.13	1.18	1.15
3600.0	1.13	1.05	1.27	1.10	1.07	1.18	1.13	1.19	1.16
3800.0	1.22	1.02	1.28	1.11	1.13	1.19	1.14	1.20	1.17
4000.0	1.34	1.07	1.29	1.13	1.20	1.20	1.15	1.21	1.17
4200.0	1.44	1.14	1.30	1.15	1.27	1.22	1.16	1.22	1.18
4400.0	1.51	1.22	1.31	1.18	1.34	1.24	1.18	1.24	1.20
4600.0	1.52	1.31	1.32	1.20	1.39	1.26	1.19	1.24	1.19
4800.0	1.51	1.40	1.33	1.22	1.41	1.28	1.21	1.26	1.20
5000.0	1.47	1.48	1.33	1.24	1.40	1.29	1.23	1.27	1.22
5200.0	1.43	1.51	1.35	1.26	1.36	1.32	1.25	1.28	1.21
5400.0	1.37	1.49	1.37	1.29	1.29	1.32	1.27	1.32	1.23
5600.0	1.30	1.44	1.39	1.29	1.23	1.34	1.30	1.35	1.25
5800.0	1.19	1.34	1.39	1.29	1.18	1.35	1.31	1.37	1.26
5900.0	1.13	1.31	1.38	1.29	1.20	1.34	1.32	1.37	1.26
6000.0	1.06	1.31	1.37	1.27	1.23	1.34	1.32	1.37	1.26
6200.0	1.08	1.43	1.34	1.25	1.36	1.35	1.32	1.38	1.26
6400.0	1.23	1.65	1.32	1.25	1.52	1.34	1.32	1.38	1.25
6600.0	1.37	1.89	1.36	1.33	1.69	1.32	1.32	1.41	1.26
6800.0	1.44	2.02	1.48	1.48	1.77	1.30	1.31	1.40	1.25
7000.0	1.40	1.95	1.66	1.68	1.69	1.27	1.31	1.38	1.24
7200.0	1.22	1.72	1.90	1.93	1.52	1.26	1.30	1.36	1.25
7400.0	1.09	1.44	2.15	2.21	1.42	1.26	1.28	1.33	1.26
7600.0	1.47	1.43	2.33	2.40	1.63	1.29	1.28	1.30	1.27
7800.0	2.04	1.84	2.39	2.44	2.11	1.33	1.30	1.29	1.31
8000.0	2.66	2.36	2.31	2.31	2.65	1.37	1.34	1.27	1.36

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Solid State USB RF DUAL SP4T Switch

USB-2SP4T-63H

Typical Performance Data

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

FREQUENCY (MHz)	ISOLATION						
	(dB)						
	COM-J1 @J3 Active	COM-J1 @J2 Active	J2-J3 @J3 Active	J2-J3 @J1 Active	J1-J2 @J1 Active	COM-J1 @ Disconnect	COM-J4 @ Disconnect
0.1	97.93	94.73	102.44	94.81	90.08	100.16	107.22
0.5	94.90	93.93	91.75	90.58	93.71	93.66	101.67
1.0	95.61	98.19	98.66	94.72	94.81	91.38	103.46
2.0	95.99	104.24	95.63	128.70	105.07	93.52	96.19
4.0	101.04	98.61	90.96	119.90	95.31	106.34	100.08
10.0	110.46	113.00	122.29	113.24	106.20	109.78	117.12
50.0	107.80	111.73	110.01	109.01	111.90	119.41	114.63
100.0	111.99	109.40	111.66	112.36	112.51	111.08	108.64
200.0	117.41	106.78	106.35	116.49	108.26	113.44	117.37
300.0	109.92	111.93	118.81	114.13	105.21	110.11	109.70
400.0	110.00	115.26	124.63	111.51	108.26	112.03	111.16
500.0	125.97	107.21	109.23	116.00	114.67	110.67	110.17
600.0	118.12	113.40	116.68	117.10	107.92	112.80	123.67
800.0	113.04	121.51	107.14	116.00	108.03	111.93	136.99
1000.0	114.66	114.74	111.84	108.93	107.65	104.68	115.03
1200.0	107.06	114.84	115.35	110.29	100.81	106.44	115.12
1400.0	115.51	133.37	106.65	111.38	100.73	113.83	103.01
1600.0	108.61	109.33	107.55	115.55	101.26	113.13	107.79
1800.0	109.97	108.99	106.54	108.91	99.13	104.89	105.75
2000.0	102.98	108.35	104.73	124.28	94.31	102.23	103.53
2200.0	102.60	101.89	105.63	107.91	94.38	100.81	101.99
2400.0	101.64	98.67	103.08	127.82	93.79	96.01	97.99
2600.0	101.15	96.99	102.88	115.64	92.70	96.77	96.89
2800.0	98.18	93.40	102.70	109.27	92.40	94.79	95.32
3000.0	96.49	89.52	102.67	113.03	90.47	94.95	93.71
3200.0	93.93	87.66	101.26	113.65	90.78	93.75	94.26
3400.0	91.11	85.76	101.85	104.66	90.43	93.76	94.67
3600.0	89.02	84.32	106.98	110.60	90.70	92.95	90.24
3800.0	87.19	82.94	101.99	122.43	89.60	93.88	86.87
4000.0	85.87	81.30	99.50	108.84	90.20	91.06	84.48
4200.0	84.24	79.69	97.43	103.84	90.28	86.75	82.45
4400.0	79.13	76.71	95.39	108.27	89.60	80.12	80.90
4600.0	78.63	75.63	91.08	110.85	93.15	78.50	78.55
4800.0	78.86	75.44	88.19	110.39	96.06	77.69	76.57
5000.0	77.80	74.25	86.03	110.93	96.43	75.99	75.12
5200.0	76.62	73.12	83.37	108.75	94.20	74.34	74.23
5400.0	75.66	72.60	81.32	104.73	86.95	72.90	73.20
5600.0	74.05	72.08	80.17	107.57	83.01	72.15	72.34
5800.0	73.82	71.93	78.21	104.27	80.82	71.75	71.32
5900.0	73.75	71.68	77.21	109.48	79.38	71.25	70.85
6000.0	73.43	71.23	76.69	110.92	78.67	70.87	70.31
6200.0	72.33	70.25	75.08	109.83	76.84	70.13	69.28
6400.0	70.95	68.87	73.52	110.23	75.30	69.44	68.14
6600.0	70.53	67.77	72.18	102.38	73.77	68.73	67.06
6800.0	70.15	66.24	70.34	96.46	73.29	69.02	66.27
7000.0	68.28	64.76	69.18	102.11	71.90	68.79	66.31
7200.0	67.57	63.79	68.01	100.78	69.60	69.81	66.84
7400.0	67.89	63.91	66.71	103.70	68.42	71.51	67.79
7600.0	67.91	64.39	65.60	106.32	67.73	73.64	68.91
7800.0	68.33	65.00	64.36	108.44	67.40	74.51	69.58
8000.0	68.18	65.35	62.96	105.34	66.96	72.84	69.44

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/MOLStore/terms.jsp

