

Solid State USB / I²C RF SP4T Switch

U2C-1SP4T-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	2.09	2.08	2.10	2.11
0.5	1.72	1.72	1.75	1.75
1.0	1.74	1.74	1.77	1.77
2.0	1.81	1.80	1.84	1.84
4.0	1.86	1.86	1.89	1.89
10.0	1.90	1.89	1.92	1.93
50.0	1.95	1.95	1.98	1.98
100.0	2.02	2.02	2.05	2.05
200.0	2.09	2.09	2.12	2.13
300.0	2.14	2.13	2.17	2.17
400.0	2.19	2.18	2.22	2.22
500.0	2.25	2.24	2.28	2.28
600.0	2.30	2.29	2.33	2.33
800.0	2.40	2.39	2.43	2.43
1000.0	2.47	2.46	2.50	2.50
1200.0	2.50	2.50	2.54	2.54
1400.0	2.51	2.51	2.55	2.56
1600.0	2.52	2.53	2.56	2.58
1800.0	2.56	2.57	2.60	2.63
2000.0	2.63	2.66	2.67	2.71
2200.0	2.73	2.75	2.77	2.80
2400.0	2.82	2.84	2.86	2.89
2600.0	2.89	2.91	2.94	2.96
2800.0	2.94	2.95	2.99	3.02
3000.0	3.01	3.02	3.06	3.09
3200.0	3.13	3.15	3.17	3.22
3400.0	3.28	3.32	3.32	3.39
3600.0	3.41	3.47	3.45	3.54
3800.0	3.47	3.53	3.52	3.59
4000.0	3.45	3.50	3.51	3.57
4200.0	3.44	3.46	3.49	3.53
4400.0	3.49	3.50	3.53	3.55
4600.0	3.62	3.63	3.64	3.68
4800.0	3.77	3.79	3.79	3.84
5000.0	3.87	3.90	3.91	3.95
5200.0	3.89	3.91	3.94	3.98
5400.0	3.87	3.87	3.92	3.95
5600.0	3.90	3.83	3.94	3.91
5800.0	3.98	3.90	4.01	3.96
5900.0	4.02	3.98	4.05	4.03
6000.0	4.06	4.04	4.10	4.10
6200.0	4.15	4.13	4.20	4.21
6400.0	4.26	4.19	4.31	4.29
6600.0	4.40	4.25	4.44	4.37
6800.0	4.53	4.36	4.57	4.48
7000.0	4.67	4.50	4.71	4.60
7200.0	4.73	4.61	4.77	4.68
7400.0	4.73	4.72	4.77	4.78
7600.0	4.84	4.77	4.86	4.85
7800.0	5.01	4.88	5.01	4.99
8000.0	5.14	5.06	5.13	5.17

Notes

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

FREQUENCY (MHz)	VSWR, Active Ports					VSWR, Internally Terminated Ports			
	COM	J1	(:1)			(:1)			
			J2	J3	J4	J1	J2	J3	J4
0.1	1.96	1.96	1.96	1.96	1.96	1.43	1.42	1.42	1.43
0.5	1.44	1.45	1.44	1.45	1.45	1.15	1.15	1.15	1.16
1.0	1.41	1.42	1.41	1.42	1.42	1.14	1.13	1.13	1.14
2.0	1.39	1.39	1.39	1.39	1.39	1.13	1.12	1.13	1.13
4.0	1.37	1.37	1.37	1.38	1.38	1.12	1.12	1.12	1.12
10.0	1.36	1.36	1.36	1.37	1.37	1.12	1.12	1.12	1.12
50.0	1.35	1.36	1.36	1.36	1.37	1.12	1.12	1.12	1.12
100.0	1.35	1.36	1.35	1.36	1.36	1.13	1.12	1.13	1.13
200.0	1.33	1.34	1.33	1.34	1.34	1.13	1.13	1.13	1.13
300.0	1.30	1.30	1.30	1.31	1.31	1.13	1.12	1.12	1.12
400.0	1.24	1.26	1.26	1.26	1.27	1.12	1.12	1.12	1.12
500.0	1.20	1.21	1.21	1.21	1.22	1.12	1.12	1.12	1.12
600.0	1.15	1.16	1.15	1.16	1.17	1.12	1.12	1.12	1.12
800.0	1.09	1.07	1.08	1.09	1.09	1.12	1.12	1.12	1.12
1000.0	1.13	1.12	1.12	1.12	1.11	1.12	1.12	1.12	1.12
1200.0	1.22	1.20	1.20	1.20	1.19	1.12	1.12	1.12	1.12
1400.0	1.28	1.27	1.25	1.27	1.25	1.11	1.10	1.11	1.11
1600.0	1.28	1.29	1.27	1.29	1.28	1.11	1.10	1.10	1.10
1800.0	1.21	1.27	1.26	1.27	1.28	1.10	1.08	1.10	1.09
2000.0	1.12	1.23	1.24	1.23	1.26	1.09	1.08	1.09	1.09
2200.0	1.05	1.17	1.21	1.17	1.22	1.08	1.07	1.08	1.08
2400.0	1.10	1.13	1.17	1.13	1.16	1.07	1.05	1.06	1.07
2600.0	1.12	1.08	1.11	1.10	1.10	1.07	1.04	1.05	1.06
2800.0	1.09	1.07	1.04	1.08	1.04	1.06	1.03	1.04	1.06
3000.0	1.03	1.13	1.09	1.11	1.11	1.06	1.03	1.04	1.06
3200.0	1.09	1.21	1.21	1.18	1.22	1.06	1.04	1.03	1.06
3400.0	1.19	1.29	1.32	1.26	1.32	1.06	1.05	1.04	1.07
3600.0	1.27	1.34	1.40	1.31	1.38	1.07	1.06	1.04	1.08
3800.0	1.27	1.35	1.41	1.34	1.38	1.09	1.07	1.06	1.09
4000.0	1.21	1.29	1.35	1.29	1.31	1.10	1.09	1.07	1.10
4200.0	1.12	1.21	1.24	1.24	1.22	1.12	1.10	1.07	1.11
4400.0	1.13	1.13	1.10	1.15	1.11	1.13	1.11	1.09	1.12
4600.0	1.23	1.06	1.02	1.07	1.02	1.15	1.12	1.09	1.13
4800.0	1.30	1.04	1.12	1.02	1.07	1.16	1.15	1.10	1.15
5000.0	1.30	1.08	1.18	1.08	1.13	1.18	1.16	1.12	1.16
5200.0	1.23	1.18	1.21	1.18	1.19	1.19	1.17	1.12	1.17
5400.0	1.12	1.28	1.22	1.29	1.25	1.21	1.19	1.13	1.18
5600.0	1.15	1.39	1.23	1.38	1.30	1.23	1.22	1.15	1.20
5800.0	1.27	1.43	1.25	1.44	1.31	1.23	1.23	1.17	1.21
5900.0	1.34	1.42	1.26	1.44	1.32	1.24	1.23	1.17	1.22
6000.0	1.37	1.39	1.23	1.41	1.30	1.24	1.24	1.16	1.22
6200.0	1.42	1.34	1.17	1.32	1.23	1.25	1.25	1.15	1.22
6400.0	1.47	1.40	1.20	1.37	1.26	1.24	1.25	1.18	1.23
6600.0	1.55	1.60	1.37	1.55	1.43	1.25	1.25	1.20	1.23
6800.0	1.63	1.78	1.57	1.75	1.63	1.23	1.25	1.20	1.23
7000.0	1.64	1.83	1.68	1.82	1.73	1.24	1.24	1.22	1.23
7200.0	1.53	1.69	1.62	1.71	1.66	1.24	1.23	1.24	1.22
7400.0	1.44	1.49	1.46	1.52	1.51	1.24	1.22	1.26	1.23
7600.0	1.54	1.45	1.37	1.44	1.42	1.24	1.21	1.31	1.24
7800.0	1.75	1.62	1.50	1.59	1.55	1.27	1.22	1.38	1.27
8000.0	1.87	1.77	1.70	1.75	1.75	1.31	1.25	1.45	1.32

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	108.64	100.53	94.35	97.84	103.69	94.24	103.44
0.5	93.12	98.31	98.97	101.16	96.08	85.03	92.96
1.0	99.46	96.91	97.18	90.28	93.40	81.03	101.16
2.0	96.38	102.67	109.40	97.15	98.39	76.55	94.15
4.0	95.29	99.51	102.46	91.77	96.17	74.96	91.53
10.0	107.91	107.16	105.80	104.73	112.06	73.39	115.91
50.0	112.04	105.78	111.04	106.73	109.71	68.50	112.83
100.0	119.56	101.17	103.00	105.03	113.32	64.07	112.68
200.0	116.06	107.83	102.39	102.83	114.16	59.21	124.91
300.0	111.84	110.83	108.30	104.40	128.04	56.24	124.87
400.0	114.64	108.40	103.43	111.03	113.07	53.98	111.67
500.0	107.39	105.99	103.05	105.78	107.68	52.14	107.91
600.0	105.01	104.94	101.64	104.92	122.41	50.62	114.82
800.0	103.50	107.67	105.36	107.19	117.21	48.24	120.74
1000.0	101.72	99.04	106.18	105.19	108.85	46.60	115.65
1200.0	93.95	100.91	105.36	107.76	110.92	45.41	121.15
1400.0	89.93	97.71	102.07	104.42	119.50	44.38	120.77
1600.0	90.77	95.22	99.77	100.83	120.96	43.31	115.07
1800.0	91.06	93.01	99.71	92.03	98.26	42.09	111.33
2000.0	90.55	92.37	102.46	101.97	101.11	40.78	123.79
2200.0	89.17	89.18	101.40	97.94	93.14	39.57	109.93
2400.0	83.50	85.27	105.40	97.14	82.95	38.76	110.85
2600.0	80.83	84.94	102.43	99.89	89.24	38.38	109.67
2800.0	76.58	83.17	93.37	93.37	91.47	38.16	110.70
3000.0	76.11	82.19	92.23	85.99	87.83	37.75	113.51
3200.0	78.85	80.58	86.44	78.32	83.30	37.03	107.44
3400.0	79.45	78.37	93.97	87.32	95.97	36.08	121.03
3600.0	77.78	76.87	96.78	86.60	95.41	35.25	132.17
3800.0	74.47	74.91	93.43	80.72	87.57	34.91	117.25
4000.0	70.14	73.19	89.11	72.14	79.24	35.02	110.30
4200.0	67.40	70.88	96.60	80.48	87.41	35.16	127.00
4400.0	68.30	68.83	98.69	85.47	91.57	35.04	113.09
4600.0	70.75	66.67	97.48	88.31	90.74	34.57	111.96
4800.0	72.28	64.75	98.29	88.97	90.40	33.97	107.18
5000.0	71.38	62.91	92.77	89.22	88.37	33.59	98.48
5200.0	68.63	61.29	89.84	88.28	81.56	33.54	111.61
5400.0	64.85	60.44	92.00	88.02	78.04	33.57	105.04
5600.0	61.78	59.98	89.75	84.61	79.14	33.41	113.24
5800.0	61.68	60.04	84.31	74.99	73.85	32.96	95.49
5900.0	62.50	60.24	84.34	73.63	74.22	32.66	93.39
6000.0	63.22	60.51	84.37	74.95	76.51	32.33	93.45
6200.0	64.13	61.08	87.47	74.15	78.06	31.82	93.51
6400.0	63.83	61.50	92.76	74.83	80.14	31.61	90.49
6600.0	62.38	61.74	93.81	72.03	78.18	31.59	94.03
6800.0	60.31	61.72	89.79	67.31	74.49	31.42	94.02
7000.0	57.47	61.60	91.58	68.76	76.42	30.95	93.07
7200.0	55.92	61.25	91.22	74.63	82.77	30.21	91.55
7400.0	57.10	60.70	87.32	76.56	83.45	29.58	84.04
7600.0	57.90	60.16	86.84	76.86	82.60	29.35	85.61
7800.0	57.90	59.40	87.14	76.28	80.59	29.42	83.44
8000.0	57.11	58.65	90.64	74.35	76.34	29.39	84.13

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FREQUENCY (MHz)	INSERTION LOSS			
	(dB)			
	COM-J1	COM-J2	COM-J3	COM-J4
0.1	2.17	2.15	2.18	2.18
0.5	1.82	1.81	1.84	1.83
1.0	1.84	1.83	1.86	1.86
2.0	1.92	1.90	1.93	1.93
4.0	1.97	1.96	1.99	1.99
10.0	2.01	2.00	2.02	2.02
50.0	2.06	2.05	2.08	2.08
100.0	2.13	2.12	2.14	2.14
200.0	2.20	2.19	2.22	2.22
300.0	2.27	2.25	2.28	2.28
400.0	2.33	2.31	2.34	2.34
500.0	2.39	2.37	2.40	2.40
600.0	2.45	2.43	2.46	2.45
800.0	2.56	2.53	2.57	2.56
1000.0	2.63	2.60	2.64	2.63
1200.0	2.66	2.64	2.68	2.67
1400.0	2.67	2.65	2.69	2.68
1600.0	2.68	2.67	2.70	2.70
1800.0	2.72	2.72	2.73	2.75
2000.0	2.80	2.80	2.81	2.84
2200.0	2.91	2.91	2.92	2.94
2400.0	3.00	3.00	3.02	3.04
2600.0	3.07	3.07	3.10	3.10
2800.0	3.12	3.12	3.15	3.16
3000.0	3.20	3.19	3.22	3.24
3200.0	3.32	3.33	3.34	3.38
3400.0	3.48	3.50	3.49	3.55
3600.0	3.61	3.64	3.62	3.69
3800.0	3.66	3.69	3.69	3.74
4000.0	3.65	3.66	3.68	3.71
4200.0	3.63	3.63	3.66	3.67
4400.0	3.69	3.67	3.70	3.70
4600.0	3.84	3.83	3.83	3.85
4800.0	4.00	3.99	3.99	4.01
5000.0	4.10	4.09	4.10	4.12
5200.0	4.11	4.09	4.12	4.13
5400.0	4.10	4.05	4.11	4.10
5600.0	4.14	4.02	4.14	4.07
5800.0	4.23	4.12	4.23	4.14
5900.0	4.27	4.20	4.26	4.21
6000.0	4.32	4.28	4.30	4.28
6200.0	4.41	4.37	4.41	4.38
6400.0	4.53	4.43	4.53	4.47
6600.0	4.66	4.50	4.66	4.55
6800.0	4.79	4.60	4.79	4.66
7000.0	4.93	4.74	4.92	4.78
7200.0	5.01	4.85	5.00	4.88
7400.0	5.04	4.97	5.02	5.00
7600.0	5.17	5.04	5.13	5.08
7800.0	5.35	5.18	5.30	5.24
8000.0	5.50	5.34	5.44	5.42

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FREQUENCY (MHz)	VSWR, Active Ports					VSWR, Internally Terminated Ports			
	COM	J1	(:1)			(:1)			
			J2	J3	J4	J1	J2	J3	J4
0.1	1.97	1.97	1.97	1.97	1.97	1.43	1.43	1.42	1.43
0.5	1.47	1.47	1.47	1.47	1.47	1.16	1.16	1.16	1.16
1.0	1.44	1.44	1.44	1.44	1.44	1.15	1.14	1.14	1.15
2.0	1.42	1.42	1.41	1.42	1.42	1.14	1.13	1.14	1.14
4.0	1.40	1.40	1.40	1.40	1.40	1.13	1.13	1.13	1.13
10.0	1.39	1.39	1.39	1.39	1.39	1.13	1.13	1.13	1.13
50.0	1.38	1.38	1.38	1.39	1.39	1.13	1.12	1.13	1.13
100.0	1.37	1.38	1.38	1.38	1.38	1.13	1.13	1.13	1.13
200.0	1.35	1.35	1.35	1.36	1.36	1.13	1.13	1.13	1.13
300.0	1.31	1.32	1.32	1.32	1.32	1.13	1.13	1.13	1.13
400.0	1.26	1.27	1.27	1.28	1.28	1.13	1.13	1.13	1.13
500.0	1.21	1.22	1.22	1.23	1.23	1.13	1.13	1.13	1.13
600.0	1.16	1.17	1.17	1.17	1.18	1.13	1.13	1.13	1.13
800.0	1.09	1.09	1.08	1.10	1.10	1.13	1.12	1.13	1.13
1000.0	1.14	1.12	1.12	1.13	1.12	1.13	1.12	1.13	1.12
1200.0	1.23	1.21	1.20	1.21	1.19	1.12	1.12	1.12	1.12
1400.0	1.29	1.28	1.26	1.28	1.26	1.12	1.11	1.12	1.11
1600.0	1.28	1.30	1.29	1.31	1.30	1.11	1.10	1.11	1.11
1800.0	1.21	1.28	1.28	1.29	1.29	1.11	1.09	1.10	1.10
2000.0	1.11	1.24	1.25	1.23	1.27	1.10	1.08	1.09	1.09
2200.0	1.04	1.17	1.21	1.17	1.22	1.09	1.07	1.08	1.08
2400.0	1.09	1.12	1.16	1.12	1.16	1.08	1.06	1.07	1.07
2600.0	1.12	1.08	1.10	1.09	1.09	1.07	1.05	1.06	1.07
2800.0	1.09	1.07	1.04	1.08	1.03	1.06	1.04	1.05	1.06
3000.0	1.02	1.12	1.10	1.11	1.11	1.06	1.04	1.04	1.06
3200.0	1.09	1.21	1.22	1.19	1.22	1.06	1.04	1.04	1.06
3400.0	1.19	1.30	1.33	1.27	1.32	1.07	1.05	1.04	1.07
3600.0	1.26	1.35	1.40	1.32	1.38	1.08	1.07	1.05	1.08
3800.0	1.26	1.34	1.41	1.33	1.38	1.09	1.08	1.07	1.09
4000.0	1.20	1.29	1.34	1.29	1.32	1.10	1.10	1.08	1.10
4200.0	1.12	1.20	1.22	1.22	1.21	1.12	1.11	1.09	1.12
4400.0	1.16	1.11	1.08	1.13	1.09	1.14	1.13	1.10	1.13
4600.0	1.27	1.05	1.03	1.07	1.02	1.16	1.14	1.12	1.15
4800.0	1.32	1.05	1.12	1.02	1.08	1.18	1.16	1.13	1.17
5000.0	1.30	1.08	1.16	1.07	1.12	1.19	1.18	1.14	1.18
5200.0	1.21	1.17	1.18	1.17	1.16	1.21	1.20	1.15	1.20
5400.0	1.12	1.29	1.20	1.29	1.22	1.23	1.21	1.16	1.21
5600.0	1.19	1.40	1.25	1.41	1.29	1.24	1.22	1.17	1.22
5800.0	1.32	1.44	1.27	1.47	1.33	1.25	1.24	1.18	1.23
5900.0	1.35	1.43	1.28	1.47	1.34	1.25	1.24	1.18	1.23
6000.0	1.40	1.40	1.26	1.43	1.32	1.25	1.25	1.17	1.24
6200.0	1.43	1.35	1.21	1.37	1.27	1.25	1.25	1.17	1.24
6400.0	1.47	1.42	1.25	1.41	1.30	1.25	1.25	1.18	1.24
6600.0	1.54	1.60	1.41	1.57	1.45	1.24	1.24	1.19	1.24
6800.0	1.60	1.75	1.58	1.72	1.62	1.24	1.24	1.19	1.23
7000.0	1.59	1.79	1.66	1.77	1.71	1.24	1.23	1.21	1.23
7200.0	1.51	1.65	1.59	1.67	1.64	1.23	1.21	1.24	1.22
7400.0	1.45	1.49	1.44	1.48	1.50	1.23	1.20	1.26	1.22
7600.0	1.55	1.47	1.37	1.42	1.42	1.25	1.20	1.30	1.23
7800.0	1.74	1.61	1.49	1.55	1.54	1.28	1.21	1.36	1.26
8000.0	1.85	1.76	1.67	1.70	1.72	1.32	1.24	1.43	1.31

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Solid State USB / I²C RF SP4T Switch

U2C-1SP4T-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	101.93	102.79	101.60	89.59	95.93	88.88	96.42
0.5	100.16	97.33	90.29	100.14	100.91	82.90	93.73
1.0	115.34	96.75	95.55	94.79	92.97	80.03	96.30
2.0	107.45	92.45	97.21	98.28	95.48	76.44	94.11
4.0	94.86	92.99	91.65	92.16	97.10	74.30	96.30
10.0	117.58	106.19	104.17	103.84	110.56	72.61	116.74
50.0	112.79	106.83	100.16	103.51	112.24	68.38	118.11
100.0	116.71	107.48	106.04	100.81	111.27	64.15	119.57
200.0	111.90	111.80	104.69	100.22	118.88	59.42	114.91
300.0	116.86	106.33	103.73	101.78	110.61	56.48	114.25
400.0	109.28	110.22	105.77	99.70	108.38	54.27	128.11
500.0	126.27	106.88	104.69	117.14	128.79	52.46	111.93
600.0	112.71	105.07	104.87	109.65	119.22	50.95	114.39
800.0	116.98	102.39	111.50	104.03	121.89	48.61	116.39
1000.0	101.04	104.93	113.49	108.11	109.03	46.97	129.05
1200.0	95.40	99.18	104.61	104.00	111.95	45.78	118.73
1400.0	90.38	100.67	104.99	104.78	114.42	44.74	121.23
1600.0	91.88	96.60	103.01	99.85	122.08	43.66	113.68
1800.0	91.93	94.97	102.22	92.22	95.55	42.42	114.51
2000.0	91.47	92.36	101.56	101.30	97.99	41.09	114.17
2200.0	90.10	90.64	102.62	98.78	92.36	39.89	111.14
2400.0	84.58	85.28	102.57	101.14	83.53	39.10	115.42
2600.0	80.94	85.24	104.32	98.51	91.62	38.72	114.11
2800.0	77.24	83.67	98.25	91.88	92.10	38.46	114.05
3000.0	76.57	82.71	91.86	85.19	87.06	38.04	122.09
3200.0	79.62	81.49	86.74	80.13	86.26	37.32	106.57
3400.0	79.79	78.90	93.59	87.69	94.47	36.37	110.82
3600.0	77.86	77.09	94.34	86.74	94.58	35.55	123.28
3800.0	74.73	75.35	93.48	79.56	87.92	35.23	108.77
4000.0	70.64	73.46	92.67	73.79	80.98	35.36	117.47
4200.0	68.15	71.34	104.09	81.87	88.48	35.51	115.77
4400.0	69.01	69.18	110.56	85.33	91.09	35.39	113.43
4600.0	71.41	67.16	102.97	87.83	91.59	34.94	117.98
4800.0	72.76	65.34	98.07	89.08	90.56	34.39	104.24
5000.0	71.86	63.62	96.53	88.43	87.16	34.05	99.67
5200.0	68.79	62.16	92.05	86.83	80.67	34.01	107.41
5400.0	65.25	61.35	95.92	90.13	78.92	34.02	110.93
5600.0	62.53	60.87	90.36	83.90	79.06	33.81	110.38
5800.0	62.51	60.94	86.28	74.92	74.17	33.34	97.41
5900.0	63.18	61.16	87.01	74.81	75.75	33.04	99.19
6000.0	63.85	61.43	86.82	74.93	77.21	32.71	96.09
6200.0	64.58	61.75	89.37	74.85	78.90	32.21	93.23
6400.0	64.17	61.99	96.65	74.65	79.95	31.96	92.02
6600.0	62.82	62.17	99.04	71.67	78.42	31.88	94.13
6800.0	60.69	62.02	88.58	67.24	74.49	31.68	96.51
7000.0	57.90	61.93	92.25	71.06	78.53	31.20	94.43
7200.0	56.65	61.52	94.30	76.00	83.39	30.51	91.63
7400.0	57.60	61.12	88.35	77.41	83.60	29.90	85.70
7600.0	58.38	60.57	85.51	77.24	83.50	29.66	84.94
7800.0	58.26	59.84	86.66	76.57	80.59	29.70	83.94
8000.0	57.47	59.11	90.82	75.40	77.43	29.66	83.16

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Solid State USB / I²C RF SP4T Switch

U2C-1SP4T-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	2.27	2.26	2.28	2.28
0.5	1.93	1.92	1.94	1.94
1.0	1.95	1.95	1.97	1.97
2.0	2.03	2.02	2.04	2.04
4.0	2.09	2.08	2.10	2.10
10.0	2.13	2.12	2.14	2.14
50.0	2.18	2.17	2.19	2.19
100.0	2.24	2.24	2.25	2.26
200.0	2.32	2.31	2.33	2.33
300.0	2.39	2.38	2.40	2.41
400.0	2.46	2.45	2.47	2.47
500.0	2.53	2.51	2.54	2.53
600.0	2.59	2.57	2.60	2.59
800.0	2.70	2.68	2.71	2.70
1000.0	2.77	2.75	2.78	2.77
1200.0	2.80	2.79	2.81	2.81
1400.0	2.81	2.80	2.82	2.82
1600.0	2.82	2.81	2.83	2.84
1800.0	2.86	2.86	2.86	2.89
2000.0	2.94	2.95	2.94	2.98
2200.0	3.05	3.06	3.05	3.08
2400.0	3.15	3.16	3.15	3.18
2600.0	3.22	3.22	3.23	3.25
2800.0	3.27	3.28	3.28	3.31
3000.0	3.35	3.35	3.35	3.39
3200.0	3.48	3.49	3.47	3.53
3400.0	3.63	3.66	3.63	3.70
3600.0	3.75	3.79	3.77	3.85
3800.0	3.80	3.85	3.82	3.90
4000.0	3.78	3.82	3.80	3.87
4200.0	3.78	3.78	3.78	3.82
4400.0	3.85	3.84	3.82	3.85
4600.0	4.00	3.99	3.96	4.00
4800.0	4.16	4.16	4.12	4.17
5000.0	4.26	4.26	4.23	4.28
5200.0	4.28	4.26	4.26	4.29
5400.0	4.27	4.22	4.25	4.26
5600.0	4.31	4.20	4.28	4.23
5800.0	4.39	4.29	4.36	4.30
5900.0	4.43	4.38	4.41	4.39
6000.0	4.47	4.46	4.45	4.46
6200.0	4.58	4.56	4.55	4.56
6400.0	4.70	4.63	4.67	4.64
6600.0	4.82	4.69	4.80	4.73
6800.0	4.95	4.80	4.92	4.84
7000.0	5.08	4.92	5.06	4.96
7200.0	5.17	5.05	5.14	5.07
7400.0	5.24	5.19	5.19	5.20
7600.0	5.38	5.27	5.31	5.28
7800.0	5.56	5.40	5.47	5.43
8000.0	5.72	5.57	5.63	5.62

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Solid State USB / I²C RF SP4T Switch

U2C-1SP4T-63H

Typical Performance Data

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

FREQUENCY (MHz)	VSWR, Active Ports					VSWR, Internally Terminated Ports			
	COM	J1	(:1)			(:1)			
			J2	J3	J4	J1	J2	J3	J4
0.1	1.99	1.99	1.99	1.99	1.99	1.43	1.43	1.43	1.44
0.5	1.50	1.50	1.50	1.50	1.50	1.17	1.17	1.17	1.17
1.0	1.47	1.47	1.47	1.48	1.47	1.16	1.15	1.16	1.16
2.0	1.45	1.45	1.44	1.45	1.45	1.15	1.15	1.15	1.15
4.0	1.43	1.43	1.43	1.43	1.43	1.14	1.14	1.14	1.14
10.0	1.42	1.42	1.42	1.42	1.42	1.14	1.14	1.14	1.14
50.0	1.41	1.41	1.41	1.41	1.41	1.14	1.13	1.14	1.14
100.0	1.40	1.40	1.40	1.40	1.40	1.13	1.13	1.13	1.13
200.0	1.37	1.37	1.37	1.38	1.38	1.13	1.13	1.13	1.13
300.0	1.33	1.34	1.34	1.34	1.34	1.13	1.13	1.13	1.13
400.0	1.28	1.29	1.29	1.30	1.30	1.14	1.13	1.14	1.14
500.0	1.23	1.23	1.23	1.24	1.24	1.14	1.14	1.14	1.14
600.0	1.17	1.18	1.18	1.19	1.19	1.14	1.13	1.14	1.14
800.0	1.08	1.10	1.10	1.11	1.11	1.14	1.13	1.14	1.14
1000.0	1.14	1.13	1.13	1.14	1.13	1.14	1.13	1.14	1.14
1200.0	1.24	1.22	1.21	1.23	1.21	1.13	1.13	1.13	1.13
1400.0	1.30	1.29	1.28	1.30	1.28	1.13	1.12	1.13	1.13
1600.0	1.29	1.32	1.31	1.32	1.31	1.13	1.11	1.12	1.12
1800.0	1.23	1.30	1.29	1.30	1.30	1.12	1.10	1.11	1.11
2000.0	1.12	1.25	1.26	1.24	1.27	1.11	1.09	1.10	1.10
2200.0	1.05	1.18	1.21	1.17	1.22	1.10	1.08	1.09	1.09
2400.0	1.08	1.12	1.16	1.12	1.16	1.09	1.06	1.08	1.08
2600.0	1.11	1.07	1.09	1.09	1.09	1.08	1.06	1.06	1.07
2800.0	1.09	1.07	1.03	1.08	1.03	1.07	1.05	1.05	1.07
3000.0	1.02	1.14	1.11	1.12	1.11	1.07	1.05	1.05	1.06
3200.0	1.09	1.23	1.22	1.19	1.22	1.08	1.05	1.04	1.07
3400.0	1.18	1.30	1.33	1.27	1.32	1.09	1.06	1.05	1.07
3600.0	1.24	1.33	1.39	1.32	1.38	1.10	1.07	1.06	1.08
3800.0	1.23	1.32	1.39	1.33	1.37	1.11	1.08	1.07	1.09
4000.0	1.17	1.26	1.33	1.29	1.32	1.13	1.10	1.08	1.10
4200.0	1.11	1.19	1.21	1.21	1.21	1.14	1.11	1.09	1.12
4400.0	1.17	1.13	1.08	1.13	1.09	1.15	1.13	1.11	1.14
4600.0	1.27	1.08	1.03	1.07	1.02	1.17	1.14	1.13	1.15
4800.0	1.32	1.03	1.11	1.03	1.09	1.18	1.17	1.14	1.18
5000.0	1.28	1.07	1.15	1.05	1.11	1.20	1.18	1.15	1.19
5200.0	1.20	1.20	1.16	1.16	1.14	1.21	1.20	1.16	1.21
5400.0	1.13	1.34	1.21	1.30	1.22	1.22	1.21	1.18	1.22
5600.0	1.20	1.44	1.26	1.44	1.30	1.22	1.23	1.20	1.24
5800.0	1.32	1.46	1.29	1.50	1.35	1.23	1.23	1.20	1.24
5900.0	1.36	1.44	1.30	1.50	1.36	1.22	1.24	1.20	1.25
6000.0	1.40	1.41	1.28	1.48	1.34	1.22	1.24	1.20	1.25
6200.0	1.45	1.37	1.24	1.43	1.30	1.22	1.24	1.19	1.24
6400.0	1.49	1.43	1.27	1.46	1.33	1.22	1.24	1.19	1.24
6600.0	1.52	1.58	1.42	1.60	1.46	1.22	1.23	1.20	1.24
6800.0	1.54	1.71	1.57	1.74	1.62	1.21	1.22	1.21	1.23
7000.0	1.53	1.73	1.63	1.76	1.69	1.21	1.21	1.22	1.22
7200.0	1.47	1.61	1.56	1.64	1.62	1.20	1.19	1.23	1.21
7400.0	1.43	1.47	1.44	1.48	1.50	1.21	1.19	1.25	1.21
7600.0	1.54	1.44	1.36	1.42	1.41	1.23	1.18	1.29	1.22
7800.0	1.70	1.58	1.46	1.54	1.51	1.27	1.20	1.36	1.25
8000.0	1.79	1.71	1.62	1.67	1.67	1.31	1.23	1.43	1.30

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Solid State USB / I²C RF SP4T Switch

U2C-1SP4T-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	93.11	95.05	106.05	95.09	93.53	88.68	97.26
0.5	103.39	98.60	91.74	102.46	93.84	84.78	97.71
1.0	98.58	100.39	99.86	96.64	95.77	78.33	98.48
2.0	95.54	98.16	98.66	96.77	102.88	75.12	109.57
4.0	94.96	101.77	94.29	91.97	106.01	72.44	104.33
10.0	108.14	108.29	107.53	108.38	114.32	71.78	114.08
50.0	107.58	109.96	103.34	106.64	131.07	68.11	117.22
100.0	111.59	103.24	113.57	105.56	109.30	64.29	117.23
200.0	117.66	108.18	108.54	105.05	125.97	59.71	117.70
300.0	111.53	114.87	107.01	107.13	110.12	56.84	118.36
400.0	114.57	109.65	107.96	104.46	111.44	54.66	119.63
500.0	111.29	110.83	112.76	116.10	114.23	52.88	117.16
600.0	122.82	106.62	104.76	108.76	120.70	51.41	123.52
800.0	106.85	102.85	115.27	107.50	108.89	49.09	111.49
1000.0	101.02	106.64	109.31	113.26	107.64	47.47	112.90
1200.0	95.88	103.27	108.33	108.83	125.68	46.28	122.93
1400.0	91.90	101.51	115.09	110.56	106.35	45.24	120.80
1600.0	92.28	97.25	105.92	104.21	118.47	44.14	121.93
1800.0	91.95	96.45	103.53	93.50	99.76	42.89	107.75
2000.0	92.53	95.24	106.12	100.35	103.85	41.56	111.31
2200.0	89.15	92.43	106.47	98.32	92.16	40.36	115.68
2400.0	85.32	86.08	108.47	106.17	83.78	39.58	132.67
2600.0	81.27	85.49	103.37	95.80	90.88	39.20	113.96
2800.0	77.82	83.96	96.98	91.59	90.44	38.94	110.67
3000.0	77.59	83.06	92.51	84.32	87.68	38.51	110.88
3200.0	80.14	81.93	88.77	81.69	87.39	37.77	108.21
3400.0	80.16	79.54	93.22	88.35	95.80	36.82	123.92
3600.0	78.20	77.68	96.54	85.71	95.27	36.01	115.97
3800.0	74.88	75.79	91.96	79.01	85.87	35.71	115.64
4000.0	71.02	74.03	93.97	75.56	82.79	35.84	115.59
4200.0	68.72	71.63	107.72	82.53	88.32	35.98	114.83
4400.0	69.59	69.55	102.39	86.01	90.21	35.84	128.91
4600.0	72.06	67.63	100.61	88.19	91.93	35.39	106.85
4800.0	73.23	65.96	99.96	89.80	90.40	34.86	102.50
5000.0	72.32	64.34	95.53	89.34	86.97	34.53	102.13
5200.0	69.12	62.96	93.09	87.83	80.39	34.47	108.42
5400.0	65.69	62.15	99.50	91.79	80.16	34.43	118.48
5600.0	63.20	61.66	91.30	83.29	78.72	34.20	102.65
5800.0	63.17	61.66	86.61	74.98	74.95	33.72	100.21
5900.0	63.71	61.84	88.03	75.43	76.90	33.42	97.39
6000.0	64.28	62.09	86.91	75.11	77.80	33.11	97.23
6200.0	64.91	62.27	89.92	75.14	79.78	32.59	93.74
6400.0	64.48	62.38	93.98	74.36	80.01	32.33	92.35
6600.0	63.21	62.47	95.21	71.49	77.89	32.22	98.58
6800.0	61.13	62.33	87.76	67.74	75.14	31.99	93.53
7000.0	58.41	62.18	94.60	72.54	80.73	31.52	96.17
7200.0	57.18	61.86	93.53	76.89	83.48	30.87	90.41
7400.0	58.06	61.42	89.12	77.82	84.42	30.30	85.86
7600.0	58.75	60.88	87.91	77.95	83.38	30.05	85.94
7800.0	58.61	60.22	88.68	75.84	79.96	30.08	83.79
8000.0	57.85	59.52	91.15	76.40	77.51	30.11	83.70

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

