

# Solid State USB DUAL RF SPDT Switch      USB-2SP2T-DCH

## Typical Performance Data

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

FREQUENCY (MHz)	INSERTION LOSS		VSWR, Active Ports			VSWR, Internally Terminated Ports	
	(dB)		(:1)			(:1)	
	COM-1	COM-2	Port1	Port2	COM	Port1	Port2
0.01	0.62	0.61	1.15	1.15	1.15	1.01	1.01
1	0.62	0.62	1.15	1.15	1.15	1.01	1.01
5	0.63	0.63	1.14	1.14	1.14	1.01	1.01
10	0.62	0.63	1.14	1.14	1.14	1.01	1.01
20	0.65	0.64	1.15	1.14	1.15	1.01	1.01
30	0.65	0.64	1.15	1.15	1.15	1.01	1.01
50	0.66	0.65	1.15	1.14	1.15	1.01	1.01
70	0.67	0.66	1.14	1.14	1.15	1.01	1.01
80	0.67	0.67	1.15	1.14	1.15	1.01	1.01
100	0.68	0.68	1.15	1.14	1.15	1.01	1.01
400	0.75	0.74	1.14	1.14	1.16	1.04	1.04
500	0.76	0.75	1.14	1.14	1.16	1.05	1.05
600	0.77	0.76	1.14	1.14	1.17	1.05	1.05
700	0.78	0.77	1.14	1.13	1.17	1.06	1.05
800	0.79	0.78	1.13	1.13	1.17	1.06	1.06
1000	0.81	0.80	1.13	1.12	1.17	1.07	1.07
1200	0.82	0.81	1.12	1.10	1.18	1.08	1.07
1400	0.84	0.83	1.11	1.09	1.17	1.08	1.07
1600	0.85	0.85	1.10	1.08	1.16	1.08	1.07
1800	0.87	0.86	1.11	1.09	1.14	1.08	1.07
2000	0.89	0.88	1.11	1.10	1.12	1.07	1.06
2200	0.91	0.91	1.13	1.12	1.10	1.06	1.05
2400	0.93	0.94	1.15	1.15	1.08	1.05	1.03
2600	0.95	0.96	1.16	1.18	1.07	1.04	1.02
2800	0.97	0.98	1.17	1.21	1.06	1.04	1.01
3000	0.98	0.99	1.17	1.21	1.06	1.04	1.01
3200	1.00	1.01	1.17	1.22	1.06	1.04	1.01
3400	1.02	1.03	1.17	1.23	1.06	1.05	1.01
3600	1.04	1.06	1.16	1.22	1.07	1.06	1.02
3800	1.06	1.08	1.15	1.20	1.08	1.06	1.03
4000	1.07	1.09	1.14	1.18	1.08	1.07	1.03
4200	1.09	1.11	1.13	1.16	1.09	1.07	1.03
4400	1.10	1.11	1.12	1.14	1.10	1.08	1.03
4600	1.12	1.13	1.11	1.12	1.11	1.08	1.02
4800	1.15	1.15	1.11	1.10	1.12	1.07	1.02
5000	1.17	1.17	1.10	1.07	1.12	1.07	1.02
5200	1.20	1.21	1.09	1.06	1.14	1.06	1.02
5400	1.23	1.24	1.11	1.08	1.13	1.05	1.01
5600	1.26	1.28	1.12	1.13	1.14	1.07	1.02
5800	1.30	1.33	1.17	1.21	1.15	1.09	1.04
6000	1.34	1.39	1.18	1.25	1.18	1.11	1.06
6200	1.37	1.44	1.23	1.30	1.18	1.15	1.10
6400	1.41	1.50	1.27	1.37	1.21	1.20	1.13
6600	1.45	1.54	1.30	1.42	1.22	1.25	1.17
6800	1.49	1.60	1.32	1.47	1.23	1.32	1.21
7000	1.53	1.64	1.34	1.49	1.24	1.37	1.26
7200	1.55	1.67	1.32	1.49	1.22	1.42	1.28
7400	1.56	1.67	1.29	1.44	1.19	1.45	1.31
7600	1.56	1.66	1.23	1.38	1.16	1.47	1.32
8000	1.54	1.59	1.10	1.20	1.16	1.47	1.31
8100	1.54	1.59	1.06	1.16	1.18	1.46	1.31
8300	1.57	1.61	1.02	1.07	1.24	1.43	1.28
8500	1.62	1.64	1.10	1.05	1.32	1.39	1.24

**Notes**

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- 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](http://www.minicircuits.com/MCLStore/terms.jsp)



# Solid State USB DUAL RF SPDT Switch      USB-2SP2T-DCH

## Typical Performance Data

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

FREQUENCY (MHz)	ISOLATION			
	(dB)			
	COM-1	COM-2	Port 1-2	Between switches
0.01	91.28	91.48	95.14	82.67
1	91.99	88.94	90.49	98.87
5	92.94	93.43	96.31	93.91
10	97.22	97.11	115.26	110.48
20	90.98	90.94	103.04	112.72
30	88.42	88.95	98.58	100.86
50	84.92	83.98	98.74	111.30
70	80.97	80.75	95.41	107.32
80	80.43	79.90	99.14	103.29
100	78.90	77.52	94.92	108.95
400	66.45	65.90	85.43	102.12
500	64.35	64.02	80.98	119.27
600	62.90	62.46	79.38	113.89
700	61.59	61.08	76.95	99.58
800	60.52	60.00	74.16	101.08
1000	58.27	57.89	72.34	101.71
1200	56.92	56.45	69.22	99.12
1400	55.71	55.20	66.41	108.89
1600	54.66	54.12	63.88	103.33
1800	53.74	53.08	61.46	106.54
2000	52.73	51.95	58.77	103.77
2200	51.10	50.40	56.32	96.73
2400	49.45	48.98	55.18	99.67
2600	48.64	48.34	55.11	108.87
2800	48.16	47.95	54.75	92.46
3000	47.66	47.52	54.06	101.03
3200	47.12	47.07	53.15	86.22
3400	46.52	46.58	52.14	83.85
3600	45.84	45.97	51.09	87.29
3800	45.14	45.39	50.17	87.97
4000	44.38	44.73	49.22	92.64
4200	43.54	44.00	48.34	94.72
4400	42.69	43.31	47.44	86.30
4600	41.86	42.64	46.56	89.26
4800	41.08	42.06	45.91	89.06
5000	40.40	41.49	45.34	81.60
5200	39.75	40.94	44.94	78.26
5400	39.18	40.34	44.53	82.36
5600	38.72	39.77	44.28	85.66
5800	38.40	39.20	44.13	80.97
6000	38.28	38.65	44.26	79.61
6200	38.04	38.19	43.59	82.99
6400	37.65	37.85	42.62	78.53
6600	37.31	37.61	41.64	82.08
6800	37.10	37.47	40.86	83.39
7000	36.84	37.48	39.89	78.06
7200	36.48	37.46	38.92	78.72
7400	36.43	37.41	38.30	76.90
7600	36.56	37.32	37.77	73.96
8000	36.43	37.01	36.59	70.98
8100	36.47	36.90	36.40	72.81
8300	36.47	36.63	36.01	72.08
8500	36.32	36.19	35.58	76.90

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# Solid State USB DUAL RF SPDT Switch      USB-2SP2T-DCH

## Typical Performance Data

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

FREQUENCY (MHz)	INSERTION LOSS		VSWR, Active Ports			VSWR, Internally Terminated Ports	
	(dB)		(:1)			(:1)	
	COM-1	COM-2	Port1	Port2	COM	Port1	Port2
0.01	0.00	0.65	1.16	1.16	1.16	1.02	1.03
1	0.66	0.66	1.16	1.16	1.16	1.02	1.03
5	0.67	0.67	1.15	1.15	1.15	1.02	1.03
10	0.00	0.68	1.15	1.15	1.15	1.02	1.03
20	0.68	0.68	1.16	1.16	1.16	1.02	1.03
30	0.68	0.68	1.16	1.16	1.16	1.02	1.03
50	0.69	0.69	1.15	1.15	1.16	1.02	1.03
70	0.70	0.70	1.15	1.15	1.15	1.03	1.03
80	0.71	0.71	1.15	1.15	1.16	1.03	1.03
100	0.72	0.72	1.15	1.16	1.16	1.03	1.03
400	0.79	0.79	1.15	1.15	1.16	1.04	1.04
500	0.80	0.80	1.15	1.15	1.17	1.04	1.04
600	0.82	0.82	1.15	1.14	1.17	1.04	1.04
700	0.83	0.83	1.15	1.14	1.17	1.05	1.04
800	0.84	0.84	1.14	1.14	1.18	1.05	1.04
1000	0.85	0.85	1.13	1.12	1.18	1.05	1.04
1200	0.87	0.87	1.13	1.11	1.18	1.05	1.04
1400	0.89	0.89	1.12	1.10	1.17	1.05	1.04
1600	0.91	0.91	1.11	1.10	1.16	1.04	1.03
1800	0.93	0.93	1.12	1.10	1.15	1.04	1.02
2000	0.95	0.95	1.13	1.12	1.13	1.04	1.01
2200	0.97	0.98	1.13	1.13	1.11	1.04	1.01
2400	1.00	1.00	1.15	1.16	1.10	1.04	1.01
2600	1.01	1.02	1.16	1.18	1.08	1.05	1.02
2800	1.03	1.05	1.17	1.20	1.07	1.06	1.03
3000	1.05	1.06	1.18	1.22	1.07	1.07	1.03
3200	1.07	1.09	1.17	1.23	1.07	1.08	1.04
3400	1.09	1.11	1.17	1.23	1.08	1.08	1.04
3600	1.11	1.13	1.16	1.23	1.08	1.09	1.04
3800	1.13	1.16	1.15	1.21	1.09	1.09	1.04
4000	1.14	1.17	1.15	1.19	1.09	1.09	1.04
4200	1.16	1.19	1.14	1.17	1.10	1.09	1.04
4400	1.18	1.19	1.13	1.15	1.10	1.08	1.03
4600	1.20	1.21	1.12	1.12	1.12	1.07	1.03
4800	1.23	1.23	1.11	1.10	1.13	1.06	1.03
5000	1.25	1.26	1.11	1.08	1.13	1.05	1.03
5200	1.29	1.30	1.11	1.08	1.14	1.03	1.03
5400	1.32	1.33	1.12	1.11	1.14	1.02	1.03
5600	1.35	1.38	1.14	1.16	1.16	1.05	1.05
5800	1.39	1.43	1.17	1.21	1.17	1.09	1.08
6000	1.42	1.48	1.19	1.26	1.18	1.12	1.10
6200	1.46	1.53	1.22	1.30	1.18	1.16	1.13
6400	1.50	1.59	1.26	1.36	1.21	1.22	1.17
6600	1.54	1.63	1.29	1.40	1.22	1.28	1.21
6800	1.58	1.68	1.31	1.43	1.22	1.33	1.25
7000	1.62	1.72	1.32	1.45	1.22	1.38	1.29
7200	1.65	1.76	1.31	1.45	1.21	1.43	1.31
7400	1.66	1.76	1.29	1.41	1.19	1.46	1.34
7600	1.67	1.76	1.24	1.36	1.16	1.48	1.35
8000	1.65	1.71	1.11	1.21	1.16	1.49	1.34
8100	1.66	1.71	1.07	1.18	1.18	1.48	1.33
8300	1.68	1.72	1.01	1.10	1.23	1.46	1.30
8500	1.73	1.76	1.10	1.05	1.33	1.41	1.24

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# Solid State USB DUAL RF SPDT Switch      USB-2SP2T-DCH

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## Typical Performance Data

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

FREQUENCY (MHz)	ISOLATION			
	(dB)			
	COM-1	COM-2	Port 1-2	Between switches
0.01	85.27	84.81	92.15	86.61
1	95.35	123.11	97.80	90.55
5	95.04	88.87	90.86	95.28
10	97.66	102.41	105.48	112.41
20	93.80	88.82	103.62	107.21
30	88.65	88.18	102.26	96.16
50	85.04	83.59	97.00	104.88
70	81.27	81.05	100.61	103.51
80	80.53	79.98	101.97	103.15
100	78.58	78.17	94.10	105.13
400	66.54	65.98	86.81	102.86
500	64.46	64.04	83.03	114.72
600	62.98	62.51	80.40	109.75
700	61.63	61.13	77.47	101.34
800	60.63	60.12	74.73	105.42
1000	58.33	57.93	72.88	103.15
1200	56.96	56.47	69.54	98.84
1400	55.77	55.21	66.88	115.65
1600	54.73	54.12	64.15	110.17
1800	53.75	53.07	61.64	103.35
2000	52.67	51.93	58.91	110.52
2200	51.06	50.34	56.43	107.31
2400	49.43	48.99	55.28	99.72
2600	48.63	48.35	55.18	103.15
2800	48.16	47.95	54.73	95.50
3000	47.66	47.51	54.07	96.07
3200	47.12	47.05	53.15	87.60
3400	46.53	46.55	52.14	85.96
3600	45.80	45.96	51.04	87.83
3800	45.12	45.35	50.10	90.84
4000	44.36	44.70	49.16	97.14
4200	43.57	44.00	48.28	89.41
4400	42.70	43.28	47.36	87.46
4600	41.86	42.56	46.52	87.70
4800	41.09	41.96	45.85	89.53
5000	40.39	41.39	45.28	82.46
5200	39.76	40.82	44.83	80.84
5400	39.19	40.25	44.46	83.08
5600	38.74	39.72	44.21	86.66
5800	38.43	39.22	44.02	82.17
6000	38.29	38.70	44.02	81.73
6200	38.08	38.28	43.49	85.38
6400	37.64	37.94	42.56	80.67
6600	37.24	37.69	41.52	84.00
6800	36.98	37.53	40.69	81.12
7000	36.73	37.50	39.81	78.35
7200	36.39	37.45	38.87	77.12
7400	36.30	37.32	38.20	75.78
7600	36.41	37.15	37.68	73.14
8000	36.30	36.89	36.56	71.47
8100	36.35	36.79	36.38	73.89
8300	36.33	36.49	35.99	74.80
8500	36.13	36.03	35.57	77.64

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# Solid State USB DUAL RF SPDT Switch      USB-2SP2T-DCH

## Typical Performance Data

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

FREQUENCY (MHz)	INSERTION LOSS		VSWR, Active Ports			VSWR, Internally Terminated Ports	
	(dB)		(:1)			(:1)	
	COM-1	COM-2	Port1	Port2	COM	Port1	Port2
0.01	0.70	0.71	1.17	1.17	1.17	1.07	1.08
1	0.70	0.71	1.17	1.17	1.17	1.07	1.08
5	0.72	0.73	1.17	1.17	1.17	1.07	1.08
10	0.70	0.73	1.17	1.17	1.17	1.07	1.08
20	0.73	0.74	1.17	1.17	1.17	1.07	1.08
30	0.73	0.74	1.17	1.17	1.17	1.07	1.08
50	0.74	0.75	1.17	1.17	1.17	1.07	1.08
70	0.75	0.76	1.16	1.17	1.17	1.06	1.07
80	0.75	0.76	1.16	1.17	1.17	1.06	1.07
100	0.76	0.77	1.17	1.17	1.17	1.06	1.07
400	0.84	0.84	1.16	1.16	1.17	1.07	1.08
500	0.85	0.86	1.16	1.16	1.18	1.07	1.08
600	0.86	0.87	1.16	1.16	1.18	1.06	1.07
700	0.88	0.89	1.16	1.15	1.18	1.06	1.07
800	0.89	0.90	1.15	1.15	1.18	1.06	1.07
1000	0.90	0.91	1.15	1.14	1.19	1.05	1.06
1200	0.92	0.93	1.14	1.13	1.19	1.04	1.05
1400	0.94	0.95	1.13	1.11	1.18	1.02	1.04
1600	0.96	0.96	1.12	1.10	1.17	1.01	1.03
1800	0.98	0.98	1.12	1.11	1.16	1.01	1.02
2000	1.00	1.01	1.13	1.12	1.14	1.03	1.03
2200	1.03	1.04	1.14	1.14	1.12	1.05	1.04
2400	1.05	1.06	1.16	1.17	1.11	1.07	1.06
2600	1.07	1.09	1.18	1.19	1.09	1.08	1.07
2800	1.09	1.11	1.19	1.22	1.08	1.10	1.08
3000	1.11	1.13	1.19	1.24	1.08	1.11	1.08
3200	1.13	1.15	1.19	1.25	1.08	1.12	1.08
3400	1.15	1.18	1.18	1.25	1.08	1.12	1.08
3600	1.17	1.20	1.17	1.23	1.09	1.12	1.08
3800	1.19	1.23	1.16	1.22	1.09	1.12	1.08
4000	1.21	1.24	1.16	1.20	1.09	1.12	1.08
4200	1.23	1.26	1.15	1.18	1.10	1.12	1.08
4400	1.24	1.26	1.14	1.16	1.11	1.10	1.07
4600	1.26	1.28	1.13	1.14	1.12	1.09	1.07
4800	1.29	1.30	1.12	1.11	1.13	1.07	1.06
5000	1.31	1.33	1.12	1.08	1.13	1.04	1.06
5200	1.36	1.37	1.12	1.10	1.16	1.02	1.06
5400	1.39	1.41	1.14	1.14	1.16	1.04	1.07
5600	1.43	1.46	1.15	1.19	1.18	1.07	1.08
5800	1.47	1.51	1.18	1.23	1.18	1.12	1.12
6000	1.50	1.57	1.20	1.28	1.20	1.16	1.14
6200	1.55	1.62	1.24	1.32	1.21	1.20	1.19
6400	1.58	1.67	1.27	1.36	1.22	1.26	1.22
6600	1.62	1.71	1.29	1.38	1.21	1.31	1.27
6800	1.66	1.75	1.32	1.42	1.22	1.37	1.30
7000	1.70	1.79	1.33	1.43	1.22	1.41	1.34
7200	1.73	1.83	1.31	1.42	1.20	1.45	1.36
7400	1.74	1.83	1.28	1.39	1.17	1.47	1.38
7600	1.75	1.84	1.23	1.35	1.16	1.50	1.39
8000	1.72	1.80	1.11	1.23	1.16	1.51	1.37
8100	1.73	1.80	1.08	1.20	1.18	1.51	1.35
8300	1.76	1.81	1.01	1.12	1.25	1.48	1.31
8500	1.81	1.85	1.09	1.06	1.34	1.44	1.25

**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](http://www.minicircuits.com/MCLStore/terms.jsp)



# Solid State USB DUAL RF SPDT Switch      USB-2SP2T-DCH

## Typical Performance Data

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

FREQUENCY (MHz)	ISOLATION			
	(dB)			
	COM-1	COM-2	Port 1-2	Between switches
0.01	83.64	98.23	86.03	89.79
1	86.32	85.27	101.61	87.97
5	93.01	91.60	91.79	80.67
10	94.77	97.62	95.42	108.77
20	90.92	91.40	98.23	104.15
30	88.07	88.90	105.48	105.66
50	85.76	83.79	103.41	104.40
70	81.33	80.44	98.57	110.51
80	80.73	80.05	99.09	108.92
100	78.53	78.12	97.57	101.67
400	66.43	66.01	88.99	114.49
500	64.60	64.02	84.35	139.84
600	63.08	62.49	81.01	108.78
700	61.66	61.19	79.15	103.51
800	60.69	60.00	76.00	101.73
1000	58.35	57.88	73.21	99.68
1200	56.98	56.48	69.89	104.95
1400	55.75	55.20	66.95	105.52
1600	54.74	54.08	64.41	112.02
1800	53.72	52.99	61.78	104.15
2000	52.65	51.78	58.98	109.45
2200	50.98	50.22	56.44	98.90
2400	49.37	48.87	55.24	114.66
2600	48.59	48.28	55.03	100.45
2800	48.11	47.88	54.71	103.10
3000	47.60	47.43	54.00	93.56
3200	47.07	46.99	53.09	91.10
3400	46.47	46.46	52.09	85.56
3600	45.77	45.85	51.05	86.03
3800	45.07	45.24	50.06	88.17
4000	44.33	44.58	49.07	93.24
4200	43.50	43.86	48.22	88.80
4400	42.64	43.15	47.28	88.01
4600	41.80	42.42	46.40	86.70
4800	41.02	41.83	45.71	90.50
5000	40.32	41.26	45.13	81.97
5200	39.68	40.69	44.71	80.75
5400	39.13	40.12	44.28	84.37
5600	38.66	39.61	44.01	90.49
5800	38.34	39.14	43.77	82.38
6000	38.22	38.68	43.86	82.83
6200	38.09	38.27	43.50	85.26
6400	37.58	37.94	42.45	78.93
6600	37.17	37.74	41.46	80.86
6800	36.89	37.58	40.64	79.30
7000	36.62	37.46	39.76	76.46
7200	36.26	37.23	38.79	76.10
7400	36.14	36.98	38.12	76.02
7600	36.20	36.79	37.59	72.07
8000	36.04	36.55	36.47	71.15
8100	36.08	36.45	36.29	72.45
8300	36.01	36.16	35.93	73.23
8500	35.76	35.66	35.47	77.15

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