

Solid State USB RF SP4T Switch

Typical Performance Data

USB-SP4T-63

TEST CONDITIONS: @Temperature = +25degC

FREQUENCY (MHz)	INSERTION LOSS				ISOLATION							
	(dB)				(dB)							
	COM-J1	COM-J2	COM-J3	COM-J4	COM-J1	COM-J1	COM-J1	J1-J2	J1-J2	J1-J4	J1-J4	
				J2 Active	J3 Active	J4 Active	J3 Active	J4 Active	J2 Active	J3 Active		
1	0.67	0.67	0.67	0.67	100.64	99.97	94.01	108.56	99.48	101.21	99.37	
5	0.67	0.68	0.67	0.68	93.87	100.98	97.40	91.56	98.04	102.75	95.35	
10	0.68	0.68	0.68	0.68	94.38	97.28	109.47	90.16	89.57	95.97	99.55	
40	0.69	0.69	0.69	0.69	86.02	88.90	88.27	78.31	79.74	96.95	101.20	
50	0.70	0.69	0.70	0.70	85.37	89.34	85.45	77.67	76.67	93.09	90.86	
60	0.70	0.70	0.70	0.70	81.22	96.70	84.48	74.70	75.62	92.03	88.09	
70	0.71	0.71	0.71	0.71	82.00	85.19	84.37	73.56	73.99	90.43	89.25	
80	0.71	0.71	0.71	0.71	81.45	85.97	82.65	72.80	73.03	92.59	90.40	
90	0.71	0.71	0.71	0.71	80.17	86.55	81.42	71.70	72.16	90.16	88.94	
100	0.71	0.71	0.71	0.72	79.71	84.29	81.12	70.99	70.91	89.56	88.92	
200	0.74	0.74	0.74	0.75	74.31	79.36	75.99	65.27	65.42	83.96	83.65	
300	0.76	0.76	0.76	0.77	71.28	75.15	72.02	61.86	61.71	80.48	79.14	
400	0.79	0.78	0.79	0.79	68.95	73.13	69.49	59.48	59.40	77.69	78.00	
500	0.80	0.80	0.81	0.81	67.46	71.26	67.64	57.72	57.61	75.44	75.73	
600	0.82	0.82	0.83	0.83	65.61	69.95	66.31	56.22	56.17	74.16	74.17	
700	0.84	0.84	0.85	0.84	64.32	68.49	65.04	55.03	54.95	73.56	73.82	
800	0.86	0.86	0.87	0.86	63.19	67.61	64.29	54.08	54.11	72.70	71.98	
900	0.87	0.87	0.88	0.88	61.69	66.21	63.18	53.31	53.34	71.37	71.79	
1000	0.89	0.90	0.90	0.90	60.89	65.67	62.35	52.57	52.57	71.05	70.73	
1100	0.91	0.91	0.92	0.92	59.77	64.87	61.61	52.02	52.04	70.50	70.51	
1200	0.93	0.94	0.94	0.94	59.06	64.14	60.90	51.56	51.60	69.87	69.54	
1300	0.95	0.95	0.96	0.96	58.06	63.19	60.51	51.15	51.13	69.42	68.90	
1400	0.97	0.97	0.98	0.98	57.35	62.82	59.74	50.84	50.81	68.50	68.62	
1500	0.98	0.99	1.00	1.00	56.46	62.02	59.31	50.58	50.55	68.18	68.41	
1600	1.00	1.01	1.02	1.02	55.84	61.57	58.92	50.39	50.35	67.84	67.96	
1700	1.03	1.03	1.04	1.05	54.96	60.82	58.55	50.25	50.21	67.73	67.89	
1800	1.04	1.05	1.05	1.07	54.30	60.45	58.16	50.13	50.09	67.66	67.50	
1900	1.06	1.07	1.07	1.09	53.59	59.89	57.94	50.10	50.05	67.29	67.26	
2000	1.08	1.09	1.09	1.11	52.96	59.50	57.73	50.00	50.00	67.24	66.97	
2200	1.11	1.12	1.12	1.15	51.65	58.32	57.36	49.93	49.92	66.52	66.58	
2400	1.14	1.16	1.16	1.18	50.46	57.70	57.23	49.89	49.89	66.69	66.54	
2600	1.17	1.18	1.19	1.21	49.31	56.78	57.21	49.68	49.72	66.59	66.58	
2800	1.20	1.21	1.21	1.23	48.21	55.95	57.46	49.34	49.31	66.40	66.21	
3000	1.23	1.24	1.24	1.25	47.17	55.03	57.46	48.79	48.81	66.34	66.21	
3200	1.26	1.28	1.28	1.27	46.24	54.26	57.40	48.08	48.09	66.50	66.48	
3400	1.29	1.31	1.31	1.30	45.31	53.43	57.28	47.24	47.22	66.36	66.25	
3600	1.33	1.35	1.35	1.33	44.46	52.55	56.81	46.41	46.38	66.35	66.47	
3800	1.37	1.39	1.39	1.37	43.70	51.81	56.38	45.56	45.57	66.55	66.53	
4000	1.41	1.44	1.43	1.41	43.00	51.04	55.76	44.84	44.88	66.62	66.72	
4200	1.45	1.49	1.49	1.47	42.31	50.35	55.21	44.19	44.22	67.13	67.06	
4400	1.50	1.55	1.54	1.52	41.74	49.65	54.86	43.75	43.77	67.85	67.83	
4600	1.55	1.60	1.58	1.57	41.25	49.14	54.47	43.34	43.35	68.59	68.19	
4800	1.60	1.65	1.64	1.62	41.12	49.18	54.10	42.94	42.96	69.46	69.38	
5000	1.66	1.72	1.72	1.70	42.12	52.48	53.80	41.81	41.85	66.14	65.67	
5200	1.69	1.73	1.73	1.72	41.68	55.47	54.47	41.14	41.14	61.55	61.61	
5400	1.72	1.75	1.74	1.75	39.69	49.14	54.18	42.00	42.02	62.25	62.06	
5600	1.77	1.78	1.76	1.81	38.58	46.94	51.79	42.71	42.77	61.60	61.65	
5800	1.82	1.82	1.80	1.88	37.67	45.44	49.71	43.41	43.44	61.30	61.39	
6000	1.89	1.87	1.86	1.96	36.81	43.99	47.51	43.91	43.93	60.41	60.68	

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.
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USB-SP4T-63

Typical Performance Data

TEST CONDITIONS: @Temperature = +25degC

FREQUENCY (MHz)	VSWR				
	(:1)				
	COM	J1	J2	J3	J4
1	1.16	1.16	1.16	1.16	1.16
5	1.14	1.14	1.14	1.14	1.14
10	1.14	1.14	1.14	1.14	1.14
40	1.14	1.15	1.15	1.15	1.15
50	1.14	1.15	1.15	1.15	1.15
60	1.14	1.15	1.15	1.15	1.15
70	1.14	1.15	1.15	1.15	1.15
80	1.14	1.15	1.15	1.15	1.15
90	1.15	1.15	1.15	1.15	1.15
100	1.15	1.15	1.15	1.15	1.15
200	1.15	1.16	1.16	1.16	1.16
300	1.16	1.16	1.16	1.16	1.15
400	1.16	1.15	1.15	1.16	1.15
500	1.16	1.16	1.16	1.16	1.15
600	1.16	1.15	1.15	1.16	1.14
700	1.16	1.15	1.15	1.16	1.14
800	1.17	1.15	1.15	1.16	1.13
900	1.16	1.14	1.15	1.16	1.13
1000	1.16	1.14	1.15	1.16	1.12
1100	1.15	1.14	1.15	1.16	1.12
1200	1.15	1.14	1.15	1.16	1.13
1300	1.14	1.14	1.15	1.16	1.13
1400	1.13	1.15	1.16	1.17	1.15
1500	1.13	1.15	1.16	1.17	1.16
1600	1.12	1.16	1.17	1.17	1.17
1700	1.12	1.16	1.17	1.17	1.19
1800	1.11	1.17	1.18	1.17	1.20
1900	1.10	1.17	1.18	1.18	1.21
2000	1.08	1.18	1.19	1.18	1.22
2200	1.07	1.19	1.20	1.18	1.24
2400	1.07	1.19	1.20	1.19	1.24
2600	1.07	1.19	1.19	1.18	1.24
2800	1.06	1.18	1.18	1.18	1.22
3000	1.09	1.17	1.16	1.16	1.17
3200	1.10	1.15	1.13	1.14	1.13
3400	1.13	1.13	1.12	1.13	1.08
3600	1.15	1.12	1.10	1.12	1.03
3800	1.17	1.12	1.12	1.13	1.04
4000	1.20	1.12	1.14	1.14	1.08
4200	1.19	1.12	1.16	1.15	1.12
4400	1.19	1.13	1.19	1.18	1.15
4600	1.18	1.12	1.19	1.19	1.17
4800	1.15	1.13	1.20	1.18	1.18
5000	1.13	1.13	1.18	1.17	1.17
5200	1.11	1.16	1.16	1.14	1.18
5400	1.13	1.18	1.15	1.14	1.23
5600	1.18	1.23	1.15	1.15	1.29
5800	1.24	1.27	1.16	1.17	1.35
6000	1.30	1.32	1.21	1.22	1.42

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