

RF SPDT Switch

ZSW2-272VHDR+

Typical Performance Data

TEST CONDITIONS: @Temperature = -40degC Power In = 0dBm

FREQUENCY (MHz)	INSERTION LOSS		ISOLATION			VSWR		
	(dB)		(dB)			(:1)		
	COM-J1	COM-J2	COM-J1	COM-J2	J1-J2	COM	J1	J2
1	0.22	0.19	79.11	78.50	80.04	1.04	1.04	1.04
10	0.19	0.19	74.17	72.52	75.49	1.04	1.04	1.04
20	0.19	0.20	69.18	67.84	71.41	1.04	1.04	1.04
30	0.19	0.20	65.94	64.53	68.01	1.04	1.04	1.05
40	0.20	0.20	63.50	62.19	65.83	1.04	1.04	1.05
50	0.20	0.20	61.60	60.47	63.88	1.04	1.04	1.05
60	0.20	0.21	60.05	58.96	62.38	1.04	1.04	1.05
70	0.21	0.21	58.69	57.67	61.12	1.04	1.04	1.05
80	0.21	0.21	57.53	56.53	59.94	1.04	1.05	1.05
90	0.22	0.22	56.52	55.55	58.94	1.04	1.05	1.05
100	0.22	0.22	55.61	54.62	58.04	1.05	1.05	1.06
200	0.25	0.25	49.52	48.70	52.07	1.09	1.09	1.10
300	0.27	0.27	46.00	45.16	48.50	1.12	1.11	1.11
400	0.28	0.28	43.47	42.64	45.94	1.12	1.11	1.12
500	0.30	0.30	41.48	40.68	43.91	1.13	1.12	1.13
600	0.31	0.31	39.82	39.07	42.23	1.13	1.12	1.12
700	0.32	0.32	38.42	37.71	40.81	1.14	1.12	1.13
800	0.34	0.34	37.19	36.51	39.60	1.16	1.14	1.14
900	0.36	0.35	36.09	35.42	38.48	1.18	1.15	1.15
1000	0.37	0.37	35.10	34.44	37.49	1.19	1.16	1.16
1100	0.38	0.38	34.16	33.54	36.54	1.20	1.18	1.18
1200	0.39	0.39	33.29	32.70	35.64	1.21	1.18	1.18
1300	0.40	0.40	32.49	31.90	34.80	1.20	1.17	1.17
1400	0.41	0.41	31.72	31.15	34.01	1.20	1.17	1.17
1500	0.42	0.42	30.98	30.45	33.27	1.19	1.16	1.17
1600	0.43	0.42	30.29	29.77	32.56	1.19	1.16	1.17
1700	0.44	0.44	29.63	29.12	31.88	1.19	1.16	1.17
1800	0.45	0.45	28.99	28.49	31.24	1.20	1.17	1.18
1900	0.47	0.46	28.39	27.87	30.63	1.21	1.18	1.19
2000	0.49	0.48	27.80	27.28	30.04	1.22	1.20	1.21
2100	0.51	0.50	27.24	26.70	29.47	1.24	1.22	1.23
2200	0.53	0.52	26.70	26.12	28.92	1.26	1.24	1.26
2300	0.55	0.54	26.17	25.56	28.38	1.28	1.27	1.29
2400	0.58	0.56	25.67	25.00	27.84	1.31	1.31	1.32
2500	0.62	0.59	25.18	24.45	27.31	1.35	1.36	1.35
2600	0.66	0.63	24.68	23.94	26.80	1.41	1.42	1.40
2700	0.71	0.68	24.18	23.46	26.30	1.47	1.49	1.46
2800	0.77	0.74	23.69	23.01	25.79	1.53	1.56	1.53
2900	0.84	0.80	23.19	22.58	25.28	1.61	1.64	1.60
3000	0.93	0.90	22.70	22.17	24.81	1.76	1.80	1.76
3100	1.05	1.01	22.28	21.77	24.34	1.89	1.93	1.90
3200	1.19	1.15	21.87	21.42	23.91	2.05	2.10	2.07
3300	1.37	1.33	21.52	21.08	23.52	2.25	2.32	2.29
3400	1.58	1.52	21.23	20.74	23.17	2.48	2.57	2.49
3500	1.82	1.75	20.93	20.46	22.84	2.74	2.87	2.75
3600	2.09	2.00	20.67	20.24	22.52	3.03	3.18	3.04
3700	2.38	2.29	20.43	20.05	22.21	3.34	3.52	3.37
3800	2.69	2.61	20.19	19.93	21.94	3.70	3.90	3.76
4000	3.39	3.35	19.90	19.75	21.50	4.57	4.80	4.73

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



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ZSW2-272VHDR+

Typical Performance Data

TEST CONDITIONS: @Temperature = +25degC Power In = 0dBm

FREQUENCY (MHz)	INSERTION LOSS		ISOLATION			VSWR		
	(dB)		(dB)			(:1)		
	COM-J1	COM-J2	COM-J1	COM-J2	J1-J2	COM	J1	J2
1	0.26	0.26	78.89	78.94	77.83	1.03	1.04	1.04
10	0.23	0.24	73.48	72.74	75.59	1.03	1.04	1.04
20	0.23	0.23	68.53	67.23	70.51	1.04	1.04	1.04
30	0.23	0.23	65.39	64.20	67.30	1.04	1.05	1.05
40	0.23	0.23	62.98	61.73	65.06	1.05	1.05	1.05
50	0.23	0.23	61.02	59.96	63.20	1.05	1.05	1.05
60	0.24	0.23	59.36	58.43	61.65	1.05	1.05	1.05
70	0.25	0.24	58.03	57.19	60.34	1.05	1.05	1.05
80	0.26	0.25	56.95	56.07	59.13	1.05	1.06	1.05
90	0.27	0.26	55.94	55.09	58.17	1.05	1.05	1.05
100	0.27	0.27	54.99	54.22	57.21	1.05	1.06	1.05
200	0.30	0.30	48.99	48.26	51.26	1.07	1.07	1.07
300	0.33	0.32	45.43	44.74	47.71	1.09	1.09	1.09
400	0.35	0.35	42.89	42.24	45.18	1.10	1.10	1.10
500	0.37	0.36	40.90	40.29	43.18	1.12	1.12	1.12
600	0.39	0.38	39.27	38.68	41.53	1.14	1.13	1.13
700	0.40	0.40	37.87	37.31	40.12	1.15	1.14	1.14
800	0.42	0.42	36.65	36.09	38.91	1.17	1.15	1.15
900	0.44	0.43	35.56	35.01	37.81	1.18	1.16	1.16
1000	0.45	0.44	34.56	34.02	36.81	1.19	1.16	1.16
1100	0.46	0.46	33.65	33.13	35.90	1.20	1.17	1.17
1200	0.47	0.47	32.81	32.28	35.06	1.21	1.17	1.17
1300	0.49	0.48	32.02	31.50	34.26	1.21	1.18	1.17
1400	0.50	0.49	31.27	30.77	33.52	1.22	1.18	1.17
1500	0.51	0.51	30.55	30.07	32.81	1.23	1.18	1.17
1600	0.52	0.52	29.87	29.40	32.12	1.23	1.18	1.18
1700	0.53	0.53	29.23	28.77	31.47	1.23	1.18	1.18
1800	0.55	0.54	28.60	28.15	30.84	1.23	1.19	1.18
1900	0.56	0.55	27.99	27.56	30.23	1.24	1.20	1.19
2000	0.58	0.57	27.42	26.97	29.65	1.24	1.21	1.20
2100	0.60	0.59	26.86	26.40	29.09	1.25	1.22	1.22
2200	0.62	0.61	26.32	25.85	28.55	1.27	1.24	1.24
2300	0.64	0.63	25.79	25.30	28.02	1.29	1.27	1.27
2400	0.67	0.66	25.30	24.77	27.50	1.32	1.30	1.30
2500	0.71	0.70	24.81	24.26	27.01	1.35	1.35	1.34
2600	0.75	0.74	24.34	23.76	26.52	1.40	1.40	1.40
2700	0.80	0.79	23.88	23.29	26.05	1.45	1.46	1.46
2800	0.87	0.86	23.43	22.84	25.58	1.52	1.54	1.53
2900	0.95	0.93	22.99	22.42	25.11	1.61	1.64	1.63
3000	1.04	1.02	22.56	22.01	24.66	1.74	1.78	1.76
3100	1.16	1.14	22.15	21.64	24.23	1.87	1.91	1.89
3200	1.30	1.28	21.77	21.30	23.81	2.02	2.07	2.05
3300	1.48	1.45	21.43	20.99	23.43	2.20	2.26	2.24
3400	1.67	1.64	21.12	20.71	23.08	2.41	2.49	2.46
3500	1.90	1.86	20.86	20.46	22.78	2.65	2.75	2.72
3600	2.17	2.13	20.64	20.24	22.50	2.94	3.04	3.01
3700	2.47	2.42	20.46	20.06	22.26	3.26	3.38	3.34
3800	2.80	2.75	20.32	19.92	22.07	3.63	3.76	3.73
4000	3.53	3.48	20.17	19.72	21.77	4.50	4.66	4.66

Notes

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Typical Performance Data

TEST CONDITIONS: @Temperature = +85degC Power In = 0dBm

FREQUENCY (MHz)	INSERTION LOSS		ISOLATION			VSWR		
	(dB)		(dB)			(:1)		
	COM-J1	COM-J2	COM-J1	COM-J2	J1-J2	COM	J1	J2
1	0.25	0.23	77.78	77.70	76.89	1.05	1.05	1.05
10	0.23	0.24	72.38	71.65	74.63	1.05	1.05	1.05
20	0.24	0.24	67.91	66.87	69.73	1.05	1.05	1.06
30	0.24	0.25	64.74	63.60	66.67	1.05	1.06	1.06
40	0.24	0.25	62.19	61.28	64.15	1.06	1.06	1.06
50	0.25	0.25	60.31	59.45	62.24	1.06	1.06	1.06
60	0.25	0.26	58.77	57.98	60.77	1.06	1.06	1.06
70	0.26	0.26	57.39	56.69	59.50	1.06	1.06	1.06
80	0.26	0.27	56.28	55.59	58.29	1.07	1.07	1.06
90	0.26	0.27	55.28	54.58	57.31	1.07	1.07	1.06
100	0.27	0.27	54.35	53.72	56.40	1.07	1.07	1.06
200	0.30	0.30	48.34	47.72	50.39	1.07	1.07	1.07
300	0.32	0.33	44.82	44.23	46.86	1.07	1.08	1.09
400	0.35	0.36	42.25	41.76	44.36	1.09	1.09	1.09
500	0.37	0.38	40.28	39.81	42.39	1.10	1.10	1.09
600	0.39	0.40	38.67	38.21	40.78	1.12	1.11	1.11
700	0.41	0.42	37.27	36.86	39.39	1.13	1.12	1.12
800	0.43	0.44	36.06	35.65	38.19	1.15	1.13	1.12
900	0.45	0.45	34.97	34.59	37.10	1.16	1.14	1.13
1000	0.47	0.47	33.99	33.62	36.14	1.18	1.15	1.14
1100	0.48	0.49	33.09	32.73	35.24	1.19	1.16	1.14
1200	0.50	0.50	32.27	31.89	34.42	1.20	1.17	1.15
1300	0.51	0.52	31.50	31.11	33.66	1.21	1.18	1.16
1400	0.53	0.53	30.77	30.36	32.94	1.22	1.18	1.16
1500	0.54	0.55	30.08	29.65	32.26	1.23	1.19	1.17
1600	0.56	0.56	29.42	28.98	31.60	1.24	1.19	1.17
1700	0.57	0.58	28.79	28.34	30.97	1.24	1.19	1.17
1800	0.59	0.59	28.17	27.72	30.36	1.24	1.20	1.18
1900	0.60	0.61	27.59	27.13	29.77	1.25	1.20	1.19
2000	0.62	0.63	27.02	26.55	29.21	1.25	1.21	1.20
2100	0.64	0.65	26.48	26.00	28.66	1.26	1.23	1.21
2200	0.67	0.67	25.95	25.46	28.12	1.28	1.25	1.23
2300	0.69	0.70	25.43	24.94	27.60	1.30	1.28	1.26
2400	0.73	0.73	24.94	24.43	27.09	1.33	1.32	1.30
2500	0.77	0.77	24.45	23.95	26.58	1.37	1.37	1.34
2600	0.81	0.82	23.97	23.48	26.09	1.42	1.42	1.39
2700	0.87	0.87	23.49	23.05	25.61	1.47	1.49	1.46
2800	0.94	0.95	23.04	22.63	25.16	1.55	1.58	1.54
2900	1.03	1.03	22.61	22.23	24.71	1.64	1.67	1.62
3000	1.14	1.14	22.20	21.87	24.29	1.80	1.84	1.78
3100	1.27	1.26	21.82	21.52	23.89	1.93	1.97	1.91
3200	1.42	1.41	21.47	21.21	23.51	2.08	2.14	2.07
3300	1.59	1.58	21.15	20.92	23.15	2.25	2.33	2.26
3400	1.78	1.79	20.86	20.66	22.83	2.45	2.54	2.47
3500	2.01	2.03	20.61	20.45	22.54	2.68	2.78	2.73
3600	2.27	2.32	20.41	20.27	22.29	2.94	3.06	3.04
3700	2.56	2.64	20.24	20.14	22.08	3.24	3.38	3.38
3800	2.86	2.98	20.11	20.03	21.91	3.57	3.71	3.76
4000	3.55	3.72	19.97	19.88	21.67	4.37	4.53	4.67

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