

# High Isolation Switch

# RSW-2-25PA+

50Ω SPDT, Reflective

## Typical Performance Data

Conditions: Vs=+5V, Control=0/4.8V, Pin=-8 dBm, Temperature= +25°C

Frequency (MHz)	Insertion Loss (dB)		Isolation (dB)		Isolation (dB)		Return Loss (dB) RF IN		Return Loss (dB) RF1 & RF2			
	RF IN-RF1	RF IN-RF2	RF IN-RF1	RF IN-RF2	RF1-RF2	RF2-RF1	RF1 ON	RF2 ON	RF1 ON	RF2 ON	RF1 OFF	RF2 OFF
1.0	0.47	0.47	99.95	103.91	104.50	97.70	24.26	24.41	24.08	24.23	0.92	0.92
10.0	0.48	0.49	76.94	78.08	83.20	80.85	26.48	26.51	27.05	26.93	2.52	2.49
20.0	0.51	0.51	75.62	77.13	79.70	79.08	27.28	27.23	28.02	28.00	3.05	3.02
30.0	0.53	0.53	76.14	76.27	76.65	75.84	27.68	27.62	28.69	28.64	3.20	3.17
40.0	0.54	0.53	74.73	75.88	78.79	76.45	27.98	27.83	28.91	28.79	3.26	3.23
50.0	0.54	0.54	72.56	72.75	75.50	73.80	28.00	27.89	28.79	28.63	3.29	3.25
60.0	0.54	0.54	71.65	71.82	73.87	73.67	28.05	28.06	28.76	28.61	3.30	3.27
70.0	0.55	0.55	69.82	72.02	72.03	72.43	28.16	28.17	28.71	28.67	3.31	3.28
80.0	0.56	0.56	68.13	70.50	71.51	73.27	28.20	28.12	28.92	28.69	3.32	3.29
90.0	0.56	0.55	66.41	67.49	73.13	71.19	28.30	27.94	29.01	28.65	3.32	3.29
100.0	0.55	0.55	68.55	67.35	71.29	67.92	28.15	27.81	28.94	28.61	3.32	3.29
200.0	0.57	0.57	61.42	61.83	64.74	64.21	27.98	27.91	28.21	28.15	3.34	3.31
300.0	0.58	0.59	57.70	58.19	61.49	60.76	26.84	26.77	27.20	27.29	3.37	3.34
400.0	0.61	0.61	55.15	55.77	59.14	58.42	25.44	25.39	25.80	25.91	3.40	3.37
500.0	0.63	0.63	53.49	54.01	56.69	56.04	24.12	24.05	24.56	24.64	3.43	3.40
600.0	0.66	0.65	51.78	52.42	55.24	54.64	22.75	22.71	23.27	23.37	3.47	3.44
700.0	0.68	0.68	50.72	51.23	53.51	52.70	21.48	21.45	22.21	22.29	3.50	3.47
800.0	0.71	0.71	49.86	50.70	51.55	50.70	20.45	20.41	21.30	21.36	3.54	3.51
900.0	0.74	0.74	48.89	49.69	50.57	49.32	19.53	19.51	20.44	20.56	3.57	3.54
1000.0	0.77	0.77	48.32	49.12	49.10	48.03	18.81	18.84	19.81	20.01	3.60	3.57
1100.0	0.80	0.81	47.84	48.68	47.73	46.46	18.17	18.19	19.28	19.54	3.64	3.60
1200.0	0.83	0.83	47.41	47.70	46.35	44.92	17.63	17.68	18.79	19.13	3.68	3.63
1300.0	0.86	0.86	46.40	47.83	44.66	43.83	17.20	17.29	18.43	18.80	3.70	3.65
1400.0	0.88	0.88	45.14	45.99	44.62	43.11	16.73	16.85	18.05	18.53	3.73	3.66
1500.0	0.92	0.91	43.81	44.96	42.68	41.54	16.41	16.54	17.69	18.18	3.76	3.67
1600.0	0.94	0.94	42.22	43.73	41.39	39.97	16.08	16.17	17.41	17.96	3.77	3.68
1700.0	0.97	0.97	41.12	43.09	39.73	38.52	15.79	15.88	17.17	17.63	3.79	3.67
1800.0	1.01	1.00	39.76	41.55	38.19	36.93	15.54	15.59	17.00	17.48	3.80	3.67
1900.0	1.03	1.04	38.13	40.36	36.98	35.66	15.30	15.33	16.93	17.38	3.79	3.65
2000.0	1.06	1.06	36.58	38.80	35.60	34.28	15.07	15.05	16.90	17.33	3.78	3.63
2100.0	1.10	1.10	34.98	36.99	34.27	32.89	14.90	14.82	17.01	17.41	3.77	3.62
2200.0	1.13	1.14	33.51	35.40	33.24	31.60	14.73	14.59	17.17	17.49	3.76	3.61
2300.0	1.16	1.18	31.74	33.61	31.66	30.28	14.65	14.43	17.37	17.52	3.74	3.58
2400.0	1.22	1.24	30.20	32.05	30.61	29.05	14.57	14.26	17.45	17.48	3.73	3.61
2500.0	1.26	1.29	28.65	30.15	29.00	27.85	14.47	14.09	17.52	17.17	3.73	3.58
2750.0	1.40	1.47	24.73	26.20	25.78	24.75	14.24	13.67	16.78	15.76	3.81	3.69
3000.0	1.61	1.73	21.00	22.41	22.62	21.64	13.86	13.25	15.35	13.97	4.15	4.06

# High Isolation Switch

# RSW-2-25PA+

50Ω SPDT, Reflective

## Typical Performance Data

Conditions: Vs=+5V, Control=0/4.8V, Pin=-8 dBm, Temperature= -55°C

Frequency (MHz)	Insertion Loss (dB)		Isolation (dB)		Isolation (dB)		Return Loss (dB) RF IN		Return Loss (dB) RF1 & RF2			
	RF IN-RF1	RF IN-RF2	RF IN-RF1	RF IN-RF2	RF1-RF2	RF2-RF1	RF1 ON	RF2 ON	RF1 ON	RF2 ON	RF1 OFF	RF2 OFF
1.0	0.43	0.43	94.21	113.22	119.79	105.57	24.14	23.88	24.23	24.25	0.95	0.96
10.0	0.44	0.45	76.94	77.55	79.39	80.22	27.31	27.29	27.95	27.68	2.46	2.57
20.0	0.48	0.47	73.82	75.40	75.79	74.90	27.90	27.96	28.91	28.55	2.99	3.15
30.0	0.49	0.49	76.22	77.27	76.28	76.30	28.04	28.21	29.34	28.94	3.14	3.31
40.0	0.50	0.50	76.30	77.35	76.12	74.73	28.07	28.14	29.70	29.09	3.18	3.36
50.0	0.51	0.50	73.51	72.34	75.43	73.12	27.78	27.84	29.82	29.12	3.20	3.39
60.0	0.51	0.51	71.76	73.03	72.49	72.77	27.59	27.72	29.83	29.25	3.21	3.41
70.0	0.52	0.52	70.31	72.66	71.24	72.03	27.48	27.62	30.05	29.36	3.22	3.42
80.0	0.53	0.52	68.68	69.56	72.74	73.22	27.39	27.68	30.21	29.50	3.23	3.43
90.0	0.53	0.52	66.45	68.03	72.35	70.61	27.42	27.63	30.40	29.53	3.24	3.44
100.0	0.53	0.52	68.22	66.95	71.65	67.81	27.40	27.62	30.39	29.39	3.25	3.46
200.0	0.54	0.54	61.27	61.72	65.01	63.97	30.61	30.44	28.97	29.14	3.27	3.46
300.0	0.55	0.54	57.76	58.45	61.38	60.57	28.49	27.92	30.31	30.89	3.23	3.41
400.0	0.56	0.55	55.04	55.72	59.34	58.66	26.75	26.67	30.93	29.91	3.20	3.41
500.0	0.57	0.56	53.34	53.95	56.99	56.20	25.44	25.83	27.00	27.11	3.21	3.43
600.0	0.58	0.57	51.55	52.32	55.40	54.67	23.63	23.78	24.26	24.65	3.26	3.46
700.0	0.60	0.59	50.48	51.20	53.60	52.76	22.19	22.21	22.97	23.21	3.30	3.48
800.0	0.61	0.61	50.00	50.47	51.96	50.98	21.30	21.11	22.30	22.21	3.32	3.50
900.0	0.63	0.63	48.56	49.42	50.58	49.48	20.28	20.15	21.54	21.25	3.32	3.53
1000.0	0.65	0.65	48.84	49.69	48.82	48.08	19.71	19.84	20.99	21.08	3.34	3.54
1100.0	0.67	0.67	48.26	49.03	47.37	46.19	18.92	18.92	20.23	20.43	3.36	3.53
1200.0	0.69	0.69	46.82	47.29	46.70	45.31	18.60	18.46	20.13	20.04	3.36	3.55
1300.0	0.71	0.71	46.07	47.45	44.91	43.95	18.10	18.21	19.54	19.62	3.35	3.55
1400.0	0.73	0.72	45.17	45.77	44.45	43.17	17.18	17.46	18.68	19.26	3.36	3.52
1500.0	0.75	0.74	44.04	45.52	42.94	42.06	16.78	16.97	18.24	18.73	3.38	3.52
1600.0	0.77	0.76	42.26	43.40	42.03	40.56	16.29	16.44	17.75	18.21	3.40	3.52
1700.0	0.79	0.78	41.13	43.25	39.98	38.82	16.15	16.22	17.62	18.04	3.39	3.51
1800.0	0.81	0.81	39.71	41.64	38.69	37.39	15.81	15.84	17.36	17.72	3.38	3.49
1900.0	0.83	0.83	38.37	40.58	37.35	36.01	15.49	15.51	17.24	17.54	3.37	3.48
2000.0	0.86	0.85	36.78	38.85	35.98	34.63	15.20	15.24	17.13	17.38	3.35	3.44
2100.0	0.88	0.88	35.27	37.47	34.73	33.29	14.98	15.00	17.11	17.41	3.34	3.42
2200.0	0.91	0.90	33.70	35.69	33.25	31.95	14.73	14.69	17.09	17.27	3.33	3.39
2300.0	0.95	0.94	31.98	34.23	32.30	30.64	14.44	14.34	17.04	17.06	3.31	3.39
2400.0	0.97	0.98	30.47	32.46	30.88	29.34	14.35	14.18	17.08	16.98	3.31	3.39
2500.0	1.01	1.02	29.08	30.60	29.37	28.02	14.25	14.01	17.09	16.96	3.33	3.36
2750.0	1.11	1.15	25.08	26.67	26.38	25.10	14.04	13.48	16.68	15.83	3.30	3.34
3000.0	1.25	1.33	21.26	22.88	23.17	22.04	13.54	12.97	15.33	14.21	3.48	3.47



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# High Isolation Switch

# RSW-2-25PA+

50Ω SPDT, Reflective

## Typical Performance Data

Conditions: Vs=+5V, Control=0/4.8V, Pin=-8 dBm, Temperature= +85°C

Frequency (MHz)	Insertion Loss (dB)		Isolation (dB)		Isolation (dB)		Return Loss (dB) RF IN		Return Loss (dB) RF1 & RF2			
	RF IN-RF1	RF IN-RF2	RF IN-RF1	RF IN-RF2	RF1-RF2	RF2-RF1	RF1 ON	RF2 ON	RF1 ON	RF2 ON	RF1 OFF	RF2 OFF
1.0	0.52	0.52	96.64	100.78	104.23	100.18	23.69	23.83	23.75	23.89	0.91	0.91
10.0	0.53	0.53	78.44	77.89	81.38	79.89	25.84	25.88	26.12	26.00	2.63	2.61
20.0	0.54	0.55	75.24	77.20	78.53	78.10	26.75	26.73	26.83	26.79	3.28	3.25
30.0	0.55	0.56	76.51	77.56	77.95	75.96	27.29	27.26	27.27	27.19	3.47	3.43
40.0	0.56	0.56	75.53	75.34	77.91	76.61	27.77	27.66	27.36	27.26	3.54	3.50
50.0	0.56	0.56	73.64	73.13	75.81	74.35	28.02	27.96	27.19	27.09	3.57	3.53
60.0	0.56	0.57	71.51	72.79	73.23	73.48	28.32	28.31	27.11	27.03	3.58	3.54
70.0	0.57	0.57	70.19	71.54	72.51	73.09	28.64	28.61	27.01	27.01	3.58	3.55
80.0	0.58	0.58	68.62	69.85	72.30	72.40	28.82	28.66	27.15	26.98	3.59	3.55
90.0	0.58	0.57	67.94	68.17	72.59	70.15	28.95	28.58	27.18	26.98	3.59	3.55
100.0	0.58	0.58	67.99	67.50	71.45	69.30	28.80	28.53	27.17	27.06	3.58	3.55
200.0	0.61	0.61	61.44	61.92	65.23	64.47	25.65	25.57	27.18	27.04	3.58	3.55
300.0	0.64	0.64	57.90	58.41	61.59	60.85	24.88	24.95	25.41	25.40	3.64	3.61
400.0	0.67	0.67	55.35	55.88	59.29	58.61	23.54	23.62	23.30	23.52	3.72	3.68
500.0	0.70	0.70	53.58	54.12	57.02	56.28	22.40	22.35	22.61	22.81	3.77	3.73
600.0	0.73	0.73	52.17	52.67	55.14	54.31	21.29	21.16	21.59	21.65	3.81	3.77
700.0	0.76	0.77	50.97	51.49	53.32	52.51	20.00	19.94	20.64	20.65	3.86	3.83
800.0	0.80	0.80	50.10	50.70	51.77	50.81	19.20	19.19	19.92	20.00	3.92	3.89
900.0	0.83	0.83	49.20	49.96	50.45	49.31	18.47	18.48	19.28	19.43	3.97	3.93
1000.0	0.86	0.87	48.56	49.27	49.06	47.76	17.98	18.01	18.98	19.21	4.01	3.96
1100.0	0.90	0.90	48.33	48.90	47.42	46.06	17.51	17.50	18.65	18.89	4.05	4.00
1200.0	0.93	0.93	47.77	48.11	46.24	45.11	17.10	17.15	18.39	18.72	4.09	4.04
1300.0	0.96	0.97	46.47	48.18	44.58	44.05	16.74	16.86	18.21	18.59	4.12	4.05
1400.0	0.99	0.99	45.33	46.46	43.98	42.62	16.41	16.52	17.97	18.46	4.14	4.06
1500.0	1.03	1.03	43.88	45.39	42.52	41.15	16.17	16.26	17.75	18.25	4.16	4.06
1600.0	1.06	1.06	42.64	44.27	40.98	39.68	15.93	15.98	17.62	18.14	4.17	4.06
1700.0	1.09	1.09	41.26	43.33	39.42	38.22	15.63	15.69	17.41	17.88	4.18	4.05
1800.0	1.12	1.12	39.65	41.66	37.95	36.80	15.39	15.39	17.28	17.74	4.18	4.04
1900.0	1.16	1.16	37.96	40.16	36.70	35.39	15.15	15.11	17.20	17.63	4.19	4.03
2000.0	1.19	1.20	36.30	38.51	35.27	33.98	14.91	14.81	17.18	17.55	4.17	4.01
2100.0	1.24	1.25	34.69	36.78	33.84	32.56	14.71	14.59	17.25	17.60	4.16	4.00
2200.0	1.28	1.29	33.02	35.15	32.65	31.20	14.52	14.32	17.38	17.61	4.16	4.00
2300.0	1.32	1.35	31.36	33.32	31.28	29.89	14.37	14.13	17.44	17.58	4.15	3.98
2400.0	1.38	1.41	29.76	31.53	30.00	28.60	14.25	13.96	17.43	17.43	4.16	4.02
2500.0	1.43	1.47	28.21	29.78	28.57	27.39	14.14	13.79	17.42	17.12	4.17	4.01
2750.0	1.61	1.69	24.27	25.71	25.23	24.20	13.92	13.44	16.61	15.68	4.29	4.16
3000.0	1.87	2.01	20.50	21.94	22.05	21.05	13.60	13.11	15.20	13.92	4.74	4.66