

RF SP4T Switch

ZSWA4-63DR+

Typical Performance Data

TEST CONDITIONS: @Temperature = -40degC

Power In = 0dBm

FREQUENCY (MHz)	INSERTION LOSS (dB)				ISOLATION (dB)				
	COM-RF1	COM-RF2	COM-RF3	COM-RF4	COM-RF1	COM-RF4	RF2-RF3	RF1-RF4	RF2-RF3
					(RF4 Active)	(RF3 Active)	(RF3 Active)	(RF1 Active)	(RF4 Active)
1	0.77	0.80	0.80	0.79	110.76	96.02	86.74	92.81	86.94
10	0.79	0.82	0.82	0.80	87.41	88.59	87.40	87.91	89.70
50	0.81	0.84	0.84	0.83	83.57	86.92	80.06	82.52	78.73
100	0.84	0.87	0.87	0.86	82.02	83.97	76.06	83.07	72.82
200	0.87	0.91	0.91	0.89	82.11	78.12	71.18	77.51	67.14
300	0.88	0.92	0.92	0.90	82.74	74.61	67.96	74.31	63.83
400	0.90	0.94	0.94	0.92	84.77	71.77	65.62	71.92	61.35
500	0.92	0.97	0.97	0.95	88.18	69.65	63.74	70.15	59.47
700	0.97	1.02	1.02	0.99	81.84	66.06	60.66	67.77	56.70
1000	1.04	1.09	1.10	1.06	73.11	61.81	57.25	65.12	53.91
1100	1.05	1.11	1.12	1.08	71.37	60.63	56.34	64.58	53.19
1200	1.07	1.13	1.14	1.11	69.84	59.49	55.44	64.09	52.56
1300	1.09	1.15	1.16	1.13	68.48	58.38	54.63	63.75	52.00
1400	1.12	1.18	1.19	1.15	67.30	57.34	53.87	63.38	51.49
1500	1.14	1.20	1.21	1.17	66.05	56.45	53.12	63.12	51.02
1600	1.16	1.22	1.23	1.19	65.14	55.48	52.36	62.97	50.57
1700	1.17	1.24	1.24	1.21	64.03	54.59	51.81	62.93	50.20
1800	1.19	1.26	1.26	1.22	62.99	53.75	51.19	63.05	49.86
1900	1.20	1.27	1.28	1.23	61.81	52.92	50.59	63.23	49.58
2000	1.22	1.29	1.29	1.25	60.63	52.18	50.05	63.43	49.33
2100	1.24	1.31	1.31	1.27	59.37	51.45	49.53	63.96	49.07
2200	1.26	1.33	1.33	1.29	58.16	50.75	49.02	64.41	48.86
2400	1.28	1.35	1.36	1.31	55.66	49.49	48.14	65.93	48.47
2500	1.30	1.37	1.38	1.32	54.52	48.87	47.70	66.60	48.32
2600	1.31	1.38	1.39	1.33	53.48	48.29	47.27	66.87	48.17
2700	1.32	1.39	1.40	1.34	52.55	47.71	46.88	66.31	48.03
2800	1.32	1.40	1.40	1.35	51.68	47.15	46.48	64.68	47.92
3000	1.33	1.41	1.41	1.36	50.11	46.05	45.67	61.12	47.69
3200	1.34	1.42	1.42	1.37	48.70	44.96	44.84	57.57	47.50
3400	1.35	1.43	1.43	1.38	47.36	43.90	43.98	54.32	47.29
3600	1.36	1.44	1.43	1.39	46.07	42.86	43.06	51.53	47.08
3800	1.38	1.46	1.45	1.41	44.76	41.85	42.18	49.16	46.87
4000	1.40	1.48	1.48	1.42	43.47	40.88	41.25	46.93	46.69
4200	1.43	1.52	1.52	1.46	42.20	39.85	40.22	44.78	46.61
4400	1.47	1.56	1.57	1.51	40.99	38.93	39.18	42.66	46.45
4600	1.54	1.61	1.63	1.59	39.53	37.87	37.81	40.63	46.53
4800	1.61	1.66	1.68	1.69	38.34	36.82	36.20	39.15	49.16
5000	1.65	1.71	1.74	1.75	38.28	36.13	35.38	39.48	48.67
5200	1.67	1.73	1.78	1.80	37.64	35.34	34.56	38.52	46.26
5300	1.68	1.76	1.81	1.84	37.22	34.73	34.11	37.76	45.65
5400	1.71	1.79	1.84	1.88	36.73	34.18	33.62	37.08	45.08
5500	1.74	1.81	1.87	1.92	36.20	33.64	33.08	36.33	44.59
5600	1.76	1.84	1.90	1.96	35.62	33.17	32.55	35.63	44.17
5700	1.79	1.88	1.94	2.01	35.07	32.68	31.96	34.95	43.73
5800	1.83	1.92	1.98	2.05	34.52	32.14	31.43	34.38	43.27
5900	1.87	1.96	2.03	2.10	33.95	31.58	30.86	33.74	42.75
6000	1.92	2.02	2.09	2.17	33.32	31.04	30.36	33.12	42.22
6100	1.98	2.08	2.15	2.25	32.77	30.53	29.85	32.47	41.70
6200	2.06	2.16	2.23	2.34	32.20	29.97	29.35	31.80	41.26
6300	2.14	2.22	2.30	2.43	31.65	29.44	28.82	31.03	40.88
6400	2.24	2.30	2.38	2.54	31.11	28.86	28.32	30.27	40.60
6600	2.44	2.47	2.56	2.77	30.23	27.76	27.16	28.62	40.04
6800	2.71	2.69	2.80	3.05	29.30	26.70	25.98	26.99	39.60
7000	3.04	2.95	3.11	3.42	28.64	25.76	24.77	25.37	39.25

Notes

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RF SP4T Switch

ZSWA4-63DR+

Typical Performance Data

TEST CONDITIONS: @Temperature = -40degC

Power In = 0dBm

FREQUENCY (MHz)	VSWR								Off (terminated) State VSWR			
	(:1)								(:1)			
	COM RF1 Active	COM RF2 Active	COM RF3 Active	COM RF4 Active	RF1 RF1 Active	RF2 RF2 Active	RF3 RF3 Active	RF4 RF4 Active	RF1	RF2	RF3	RF4
1	1.20	1.20	1.22	1.23	1.20	1.21	1.20	1.20	1.28	1.29	1.29	1.28
10	1.18	1.18	1.20	1.21	1.18	1.19	1.19	1.18	1.28	1.28	1.29	1.27
50	1.18	1.19	1.20	1.22	1.18	1.19	1.19	1.19	1.27	1.28	1.28	1.26
100	1.19	1.19	1.20	1.22	1.19	1.20	1.20	1.19	1.26	1.27	1.26	1.25
200	1.19	1.19	1.21	1.22	1.20	1.21	1.20	1.19	1.26	1.26	1.27	1.26
300	1.18	1.19	1.21	1.24	1.20	1.21	1.20	1.20	1.27	1.27	1.28	1.27
400	1.19	1.20	1.22	1.25	1.19	1.20	1.20	1.20	1.27	1.28	1.27	1.27
500	1.20	1.21	1.22	1.25	1.18	1.19	1.19	1.18	1.28	1.28	1.27	1.27
700	1.22	1.22	1.23	1.25	1.17	1.18	1.18	1.17	1.27	1.27	1.26	1.26
1000	1.23	1.23	1.24	1.24	1.15	1.16	1.16	1.15	1.28	1.27	1.26	1.26
1100	1.23	1.23	1.24	1.24	1.14	1.16	1.15	1.14	1.27	1.27	1.26	1.27
1200	1.23	1.23	1.24	1.24	1.13	1.15	1.14	1.13	1.28	1.28	1.27	1.28
1300	1.23	1.23	1.25	1.24	1.13	1.14	1.14	1.13	1.28	1.28	1.27	1.28
1400	1.23	1.23	1.25	1.25	1.12	1.13	1.13	1.12	1.28	1.28	1.27	1.28
1500	1.24	1.23	1.25	1.26	1.11	1.12	1.12	1.11	1.27	1.28	1.26	1.28
1600	1.23	1.23	1.25	1.26	1.10	1.12	1.11	1.11	1.26	1.27	1.26	1.28
1700	1.23	1.23	1.25	1.27	1.10	1.12	1.11	1.11	1.25	1.27	1.26	1.27
1800	1.22	1.23	1.26	1.27	1.10	1.11	1.11	1.10	1.25	1.26	1.26	1.27
1900	1.21	1.23	1.26	1.27	1.11	1.12	1.11	1.10	1.24	1.26	1.26	1.27
2000	1.22	1.23	1.26	1.26	1.11	1.12	1.10	1.09	1.24	1.25	1.27	1.27
2100	1.23	1.25	1.27	1.28	1.11	1.12	1.11	1.10	1.23	1.25	1.28	1.28
2200	1.23	1.25	1.27	1.27	1.11	1.13	1.12	1.10	1.22	1.25	1.29	1.29
2400	1.23	1.27	1.28	1.27	1.15	1.16	1.15	1.14	1.23	1.27	1.31	1.31
2500	1.24	1.27	1.29	1.26	1.17	1.18	1.16	1.16	1.24	1.28	1.33	1.32
2600	1.24	1.27	1.29	1.27	1.19	1.19	1.18	1.18	1.26	1.29	1.36	1.35
2700	1.25	1.28	1.29	1.28	1.21	1.20	1.19	1.19	1.28	1.30	1.38	1.37
2800	1.24	1.27	1.29	1.27	1.21	1.20	1.19	1.19	1.30	1.32	1.39	1.39
3000	1.24	1.25	1.28	1.27	1.22	1.19	1.19	1.19	1.35	1.36	1.43	1.44
3200	1.23	1.22	1.25	1.26	1.22	1.18	1.17	1.19	1.40	1.38	1.45	1.47
3400	1.21	1.19	1.21	1.23	1.20	1.16	1.15	1.17	1.42	1.39	1.44	1.49
3600	1.17	1.15	1.15	1.17	1.17	1.13	1.12	1.13	1.46	1.39	1.44	1.52
3800	1.17	1.12	1.10	1.12	1.15	1.12	1.08	1.11	1.48	1.40	1.42	1.52
4000	1.15	1.08	1.05	1.06	1.09	1.09	1.05	1.07	1.50	1.39	1.39	1.51
4200	1.12	1.03	1.04	1.02	1.04	1.12	1.08	1.06	1.49	1.35	1.35	1.49
4400	1.11	1.02	1.05	1.05	1.01	1.16	1.13	1.07	1.48	1.34	1.30	1.46
4600	1.10	1.06	1.06	1.10	1.06	1.21	1.18	1.11	1.46	1.31	1.27	1.44
4800	1.10	1.11	1.07	1.14	1.10	1.25	1.21	1.13	1.44	1.29	1.24	1.42
5000	1.12	1.16	1.09	1.13	1.16	1.30	1.27	1.18	1.39	1.26	1.22	1.40
5200	1.18	1.21	1.11	1.15	1.23	1.33	1.32	1.24	1.36	1.29	1.24	1.38
5300	1.21	1.24	1.13	1.16	1.26	1.34	1.33	1.25	1.36	1.28	1.25	1.40
5400	1.24	1.27	1.15	1.14	1.29	1.34	1.34	1.28	1.36	1.25	1.26	1.40
5500	1.27	1.30	1.17	1.15	1.31	1.35	1.34	1.30	1.34	1.24	1.27	1.40
5600	1.30	1.31	1.19	1.16	1.32	1.35	1.34	1.31	1.33	1.27	1.29	1.42
5700	1.33	1.33	1.22	1.17	1.32	1.33	1.35	1.33	1.31	1.28	1.29	1.42
5800	1.36	1.33	1.24	1.23	1.33	1.32	1.34	1.34	1.30	1.28	1.30	1.40
5900	1.39	1.36	1.28	1.29	1.33	1.30	1.33	1.34	1.29	1.27	1.33	1.40
6000	1.38	1.36	1.33	1.34	1.31	1.29	1.32	1.34	1.27	1.25	1.34	1.40
6100	1.40	1.36	1.38	1.37	1.31	1.28	1.31	1.36	1.26	1.26	1.34	1.40
6200	1.46	1.38	1.43	1.43	1.33	1.29	1.31	1.31	1.25	1.27	1.34	1.39
6300	1.50	1.42	1.50	1.50	1.34	1.30	1.31	1.42	1.25	1.29	1.35	1.38
6400	1.55	1.46	1.56	1.61	1.36	1.32	1.31	1.45	1.24	1.30	1.34	1.36
6600	1.68	1.57	1.69	1.81	1.41	1.35	1.30	1.52	1.22	1.29	1.33	1.30
6800	1.92	1.75	1.85	1.94	1.49	1.39	1.31	1.62	1.21	1.29	1.31	1.21
7000	2.23	2.07	2.04	2.17	1.60	1.48	1.39	1.75	1.17	1.30	1.30	1.12

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RF SP4T Switch

ZSWA4-63DR+

Typical Performance Data

TEST CONDITIONS: @Temperature = +25degC

Power In = 0dBm

FREQUENCY (MHz)	INSERTION LOSS (dB)				ISOLATION (dB)				
	COM-RF1	COM-RF2	COM-RF3	COM-RF4	COM-RF1	COM-RF4	RF2-RF3	RF1-RF4	RF2-RF3
					(RF4 Active)	(RF3 Active)	(RF3 Active)	(RF1 Active)	(RF4 Active)
1	0.86	0.88	0.87	0.85	83.77	91.65	97.49	93.73	92.98
10	0.88	0.90	0.89	0.88	87.01	89.25	85.47	87.51	91.41
50	0.90	0.92	0.92	0.90	83.22	86.36	79.16	83.07	78.79
100	0.92	0.95	0.94	0.92	81.77	83.25	75.36	81.46	73.69
200	0.95	0.98	0.97	0.96	81.74	79.33	70.53	77.97	67.94
300	0.99	1.02	1.01	0.99	82.19	75.29	67.46	74.55	64.54
400	1.02	1.05	1.04	1.02	82.19	72.75	65.28	71.76	62.12
500	1.05	1.08	1.07	1.05	84.03	70.71	63.41	69.95	60.24
700	1.10	1.13	1.13	1.11	81.24	66.95	60.43	67.26	57.50
1000	1.19	1.22	1.22	1.19	73.13	62.57	57.04	64.80	54.66
1100	1.21	1.24	1.24	1.21	71.40	61.28	56.08	64.29	53.92
1200	1.24	1.27	1.27	1.24	69.80	60.06	55.21	63.78	53.28
1300	1.26	1.29	1.30	1.26	68.28	58.88	54.40	63.43	52.72
1400	1.29	1.32	1.32	1.29	67.25	57.78	53.65	63.17	52.19
1500	1.31	1.35	1.35	1.31	65.89	56.77	52.91	62.83	51.69
1600	1.33	1.37	1.37	1.33	64.89	55.77	52.23	62.87	51.27
1700	1.35	1.39	1.39	1.35	63.85	54.82	51.58	62.91	50.86
1800	1.37	1.41	1.41	1.37	62.93	53.96	50.96	63.03	50.48
1900	1.39	1.43	1.43	1.39	61.74	53.06	50.37	63.27	50.21
2000	1.41	1.45	1.45	1.41	60.63	52.24	49.79	63.64	49.91
2100	1.43	1.47	1.47	1.43	59.45	51.45	49.23	64.00	49.67
2200	1.46	1.49	1.49	1.45	58.20	50.68	48.72	64.84	49.40
2400	1.49	1.52	1.53	1.48	55.80	49.39	47.75	66.69	48.99
2500	1.50	1.54	1.55	1.50	54.67	48.78	47.27	67.24	48.81
2600	1.52	1.55	1.56	1.51	53.56	48.20	46.82	67.06	48.63
2700	1.53	1.56	1.57	1.52	52.65	47.62	46.36	66.13	48.47
2800	1.54	1.58	1.58	1.53	51.74	47.08	45.92	64.60	48.34
3000	1.55	1.59	1.59	1.54	50.19	46.02	45.06	60.44	48.06
3200	1.57	1.60	1.60	1.56	48.82	44.96	44.20	56.92	47.82
3400	1.58	1.62	1.61	1.57	47.53	43.91	43.28	53.83	47.59
3600	1.60	1.63	1.63	1.59	46.28	42.87	42.36	51.17	47.31
3800	1.62	1.66	1.65	1.61	45.00	41.86	41.43	48.91	47.03
4000	1.66	1.69	1.69	1.64	43.72	40.93	40.46	46.80	46.75
4200	1.70	1.74	1.74	1.69	42.50	40.01	39.51	44.90	46.52
4400	1.76	1.78	1.79	1.75	41.33	39.12	38.57	43.06	46.35
4600	1.83	1.84	1.85	1.83	39.92	38.30	37.66	41.17	46.35
4800	1.91	1.90	1.93	1.92	38.85	37.43	36.46	39.32	46.29
5000	1.94	1.95	1.99	1.99	38.12	36.63	35.27	38.59	47.47
5200	1.98	2.00	2.05	2.07	37.64	35.58	34.31	37.93	46.29
5300	2.01	2.03	2.09	2.11	37.21	34.92	33.79	37.34	45.48
5400	2.04	2.07	2.13	2.16	36.74	34.25	33.29	36.70	44.84
5500	2.07	2.10	2.17	2.21	36.20	33.59	32.71	35.96	44.27
5600	2.11	2.14	2.21	2.26	35.67	32.96	32.10	35.20	43.75
5700	2.15	2.18	2.26	2.32	35.12	32.35	31.45	34.42	43.24
5800	2.19	2.22	2.31	2.37	34.57	31.78	30.82	33.64	42.69
5900	2.24	2.27	2.36	2.43	34.04	31.24	30.16	32.85	42.10
6000	2.29	2.33	2.42	2.50	33.52	30.76	29.57	32.07	41.50
6100	2.36	2.39	2.49	2.57	33.01	30.32	29.03	31.29	40.96
6200	2.44	2.47	2.57	2.66	32.52	29.88	28.61	30.56	40.60
6300	2.53	2.56	2.66	2.76	32.06	29.48	28.17	29.82	40.41
6400	2.62	2.64	2.74	2.86	31.62	29.08	27.70	29.06	40.29
6600	2.84	2.82	2.94	3.12	30.89	28.37	26.70	27.58	40.04
6800	3.12	3.04	3.19	3.43	30.26	27.70	25.74	26.16	39.56
7000	3.46	3.32	3.51	3.82	29.90	27.02	24.86	24.79	39.16

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ZSWA4-63DR+

Typical Performance Data

TEST CONDITIONS: @Temperature = +25degC

Power In = 0dBm

FREQUENCY (MHz)	VSWR								Off (terminated) State VSWR			
	(:1)								(:1)			
	COM RF1 Active	COM RF2 Active	COM RF3 Active	COM RF4 Active	RF1 RF1 Active	RF2 RF2 Active	RF3 RF3 Active	RF4 RF4 Active	RF1	RF2	RF3	RF4
1	1.21	1.22	1.23	1.20	1.22	1.22	1.22	1.21	1.11	1.12	1.12	1.11
10	1.19	1.20	1.21	1.18	1.20	1.20	1.20	1.20	1.11	1.12	1.12	1.11
50	1.19	1.20	1.22	1.18	1.20	1.21	1.20	1.20	1.11	1.12	1.12	1.11
100	1.20	1.20	1.22	1.18	1.21	1.21	1.21	1.20	1.11	1.12	1.12	1.10
200	1.20	1.21	1.22	1.20	1.20	1.21	1.21	1.20	1.11	1.11	1.11	1.10
300	1.21	1.21	1.24	1.20	1.21	1.21	1.21	1.20	1.11	1.11	1.11	1.10
400	1.21	1.22	1.25	1.19	1.20	1.21	1.21	1.20	1.10	1.11	1.11	1.10
500	1.22	1.22	1.25	1.20	1.20	1.21	1.21	1.20	1.10	1.11	1.11	1.10
700	1.23	1.23	1.25	1.22	1.19	1.20	1.20	1.19	1.10	1.12	1.12	1.11
1000	1.25	1.24	1.24	1.23	1.17	1.18	1.18	1.17	1.10	1.12	1.12	1.11
1100	1.25	1.24	1.24	1.23	1.17	1.18	1.18	1.17	1.10	1.12	1.12	1.11
1200	1.25	1.24	1.24	1.23	1.16	1.17	1.17	1.16	1.10	1.12	1.11	1.11
1300	1.26	1.25	1.24	1.23	1.16	1.16	1.16	1.15	1.10	1.12	1.11	1.11
1400	1.26	1.25	1.25	1.23	1.15	1.16	1.15	1.14	1.10	1.12	1.12	1.12
1500	1.26	1.25	1.26	1.23	1.14	1.15	1.14	1.14	1.10	1.12	1.12	1.12
1600	1.26	1.25	1.26	1.23	1.14	1.14	1.13	1.13	1.11	1.12	1.12	1.13
1700	1.26	1.25	1.27	1.23	1.13	1.14	1.13	1.12	1.11	1.12	1.12	1.13
1800	1.26	1.26	1.27	1.23	1.13	1.14	1.12	1.12	1.12	1.12	1.13	1.14
1900	1.26	1.26	1.27	1.23	1.12	1.14	1.12	1.11	1.12	1.13	1.14	1.15
2000	1.26	1.26	1.26	1.24	1.13	1.14	1.13	1.11	1.13	1.13	1.15	1.17
2100	1.26	1.27	1.28	1.25	1.13	1.15	1.14	1.12	1.14	1.14	1.16	1.18
2200	1.26	1.27	1.27	1.25	1.14	1.15	1.15	1.12	1.16	1.15	1.18	1.20
2400	1.26	1.28	1.27	1.26	1.16	1.17	1.17	1.14	1.18	1.16	1.21	1.24
2500	1.26	1.29	1.26	1.27	1.18	1.18	1.18	1.15	1.20	1.18	1.23	1.26
2600	1.26	1.29	1.27	1.28	1.19	1.19	1.19	1.17	1.21	1.19	1.24	1.28
2700	1.26	1.29	1.28	1.28	1.20	1.20	1.19	1.18	1.22	1.20	1.26	1.30
2800	1.26	1.29	1.27	1.27	1.21	1.20	1.19	1.19	1.24	1.21	1.27	1.32
3000	1.26	1.28	1.27	1.26	1.23	1.20	1.19	1.20	1.26	1.23	1.30	1.36
3200	1.25	1.25	1.26	1.23	1.23	1.19	1.17	1.20	1.28	1.24	1.31	1.39
3400	1.23	1.21	1.23	1.20	1.21	1.17	1.14	1.18	1.29	1.25	1.32	1.41
3600	1.19	1.15	1.17	1.16	1.19	1.15	1.11	1.14	1.30	1.26	1.32	1.42
3800	1.15	1.10	1.12	1.14	1.14	1.13	1.10	1.10	1.29	1.25	1.30	1.42
4000	1.13	1.05	1.06	1.10	1.10	1.14	1.12	1.05	1.28	1.23	1.27	1.41
4200	1.13	1.04	1.02	1.06	1.05	1.17	1.15	1.02	1.26	1.21	1.24	1.38
4400	1.13	1.05	1.05	1.04	1.05	1.20	1.19	1.07	1.23	1.20	1.20	1.35
4600	1.13	1.06	1.10	1.06	1.08	1.24	1.21	1.11	1.21	1.18	1.17	1.30
4800	1.13	1.07	1.14	1.11	1.12	1.27	1.24	1.15	1.18	1.16	1.14	1.26
5000	1.14	1.09	1.13	1.15	1.15	1.31	1.27	1.18	1.17	1.16	1.13	1.23
5200	1.15	1.11	1.15	1.22	1.19	1.33	1.28	1.21	1.17	1.17	1.14	1.19
5300	1.16	1.13	1.16	1.25	1.21	1.33	1.29	1.23	1.17	1.17	1.14	1.18
5400	1.17	1.15	1.14	1.28	1.23	1.35	1.30	1.25	1.18	1.17	1.15	1.17
5500	1.18	1.17	1.15	1.32	1.24	1.34	1.30	1.26	1.18	1.18	1.17	1.16
5600	1.20	1.19	1.16	1.33	1.26	1.34	1.30	1.27	1.19	1.19	1.18	1.16
5700	1.23	1.22	1.17	1.36	1.28	1.34	1.29	1.29	1.20	1.19	1.19	1.16
5800	1.25	1.24	1.23	1.37	1.28	1.33	1.28	1.28	1.20	1.20	1.20	1.16
5900	1.31	1.28	1.29	1.39	1.30	1.32	1.28	1.31	1.21	1.20	1.21	1.17
6000	1.35	1.33	1.34	1.38	1.32	1.31	1.27	1.32	1.21	1.20	1.21	1.17
6100	1.41	1.38	1.37	1.41	1.34	1.31	1.27	1.34	1.21	1.20	1.22	1.17
6200	1.46	1.43	1.43	1.43	1.36	1.31	1.28	1.36	1.21	1.21	1.22	1.18
6300	1.53	1.50	1.50	1.46	1.39	1.31	1.30	1.38	1.20	1.21	1.22	1.18
6400	1.60	1.56	1.61	1.50	1.42	1.32	1.33	1.41	1.20	1.22	1.23	1.18
6600	1.76	1.69	1.81	1.58	1.50	1.37	1.39	1.50	1.18	1.21	1.23	1.18
6800	1.96	1.85	1.94	1.75	1.59	1.43	1.47	1.60	1.15	1.21	1.23	1.16
7000	2.21	2.04	2.17	2.01	1.68	1.51	1.56	1.73	1.13	1.20	1.22	1.14

Notes

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RF SP4T Switch

ZSWA4-63DR+

Typical Performance Data

TEST CONDITIONS: @Temperature =+85degC

Power In = 0dBm

FREQUENCY (MHz)	INSERTION LOSS (dB)				ISOLATION (dB)				
	COM-RF1	COM-RF2	COM-RF3	COM-RF4	COM-RF1	COM-RF4	RF2-RF3	RF1-RF4	RF2-RF3
					(RF4 Active)	(RF3 Active)	(RF3 Active)	(RF1 Active)	(RF4 Active)
1	0.93	0.96	0.95	0.94	86.54	91.65	89.77	95.65	92.14
10	0.95	0.98	0.97	0.96	87.37	89.25	84.84	88.25	90.93
50	0.97	1.00	0.99	0.98	82.00	86.36	80.19	83.55	79.23
100	0.99	1.02	1.01	1.00	81.44	83.25	75.78	82.56	74.01
200	1.02	1.05	1.04	1.03	81.25	79.33	71.04	78.38	68.36
300	1.06	1.10	1.09	1.08	80.66	75.29	67.80	74.30	64.92
400	1.11	1.14	1.13	1.12	81.40	72.75	65.52	71.99	62.72
500	1.14	1.17	1.17	1.15	81.04	70.71	63.72	70.25	60.76
700	1.20	1.24	1.23	1.21	79.65	66.95	60.69	67.44	58.00
1000	1.29	1.32	1.32	1.30	73.31	62.57	57.28	65.12	55.21
1100	1.32	1.35	1.35	1.33	71.56	61.28	56.35	64.51	54.46
1200	1.34	1.37	1.37	1.35	69.92	60.06	55.50	64.03	53.79
1300	1.37	1.40	1.40	1.37	68.51	58.88	54.72	63.60	53.28
1400	1.39	1.42	1.42	1.40	67.31	57.78	53.90	63.33	52.71
1500	1.41	1.45	1.45	1.42	65.82	56.77	53.17	63.14	52.23
1600	1.44	1.47	1.47	1.44	65.06	55.77	52.42	63.08	51.79
1700	1.46	1.49	1.49	1.46	63.94	54.82	51.90	63.08	51.44
1800	1.48	1.52	1.52	1.49	62.83	53.96	51.26	63.08	51.11
1900	1.50	1.54	1.54	1.51	61.78	53.06	50.67	63.14	50.81
2000	1.53	1.56	1.56	1.53	60.48	52.24	50.07	63.31	50.51
2100	1.55	1.59	1.58	1.56	59.20	51.45	49.52	63.53	50.27
2200	1.58	1.61	1.61	1.58	57.94	50.68	49.04	63.97	50.05
2400	1.61	1.65	1.65	1.61	55.48	49.39	47.99	64.51	49.64
2500	1.63	1.67	1.67	1.63	54.32	48.78	47.55	64.54	49.47
2600	1.64	1.68	1.68	1.64	53.27	48.20	47.08	64.31	49.32
2700	1.66	1.69	1.69	1.65	52.32	47.62	46.67	63.65	49.17
2800	1.67	1.71	1.70	1.66	51.41	47.08	46.24	62.72	49.06
3000	1.68	1.72	1.72	1.68	49.83	46.02	45.37	59.97	48.79
3200	1.70	1.74	1.73	1.70	48.40	44.96	44.49	57.06	48.57
3400	1.72	1.76	1.74	1.72	47.02	43.91	43.57	54.30	48.35
3600	1.74	1.77	1.76	1.73	45.71	42.87	42.56	51.71	48.10
3800	1.77	1.80	1.79	1.76	44.37	41.86	41.57	49.42	47.89
4000	1.81	1.84	1.83	1.79	43.09	40.93	40.56	47.26	47.63
4200	1.85	1.88	1.88	1.85	41.89	40.01	39.50	45.21	47.40
4400	1.91	1.93	1.94	1.92	40.64	39.12	38.37	43.18	47.28
4600	1.97	1.98	2.00	1.99	39.16	38.30	37.12	41.15	47.80
4800	2.04	2.04	2.07	2.09	37.84	37.43	35.59	39.88	49.34
5000	2.08	2.10	2.14	2.15	37.72	36.63	34.82	38.67	48.18
5200	2.12	2.16	2.20	2.23	37.19	35.58	33.98	38.01	45.96
5300	2.16	2.20	2.24	2.28	36.73	34.92	33.56	37.62	45.29
5400	2.21	2.24	2.29	2.34	36.31	34.25	33.10	37.03	44.80
5500	2.25	2.28	2.34	2.40	35.62	33.59	32.64	36.33	44.33
5600	2.30	2.33	2.39	2.46	35.11	32.96	32.15	35.65	43.90
5700	2.34	2.37	2.44	2.53	34.53	32.35	31.59	34.83	43.46
5800	2.40	2.42	2.49	2.59	33.97	31.78	31.01	34.01	42.97
5900	2.45	2.47	2.55	2.65	33.47	31.24	30.33	33.16	42.46
6000	2.52	2.53	2.61	2.72	32.90	30.76	29.71	32.39	41.87
6100	2.59	2.60	2.68	2.81	32.33	30.32	29.01	31.59	41.14
6200	2.67	2.68	2.77	2.90	31.77	29.88	28.31	30.77	40.19
6300	2.75	2.77	2.86	3.00	31.22	29.48	27.63	30.02	39.01
6400	2.85	2.86	2.96	3.10	30.73	29.08	27.08	29.24	37.96
6600	3.08	3.05	3.16	3.36	29.87	28.37	26.18	27.83	37.73
6800	3.37	3.28	3.42	3.68	29.01	27.70	25.37	26.65	37.93
7000	3.73	3.58	3.76	4.11	28.28	27.02	24.53	25.48	37.78

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RF SP4T Switch

ZSWA4-63DR+

Typical Performance Data

TEST CONDITIONS: @Temperature =+85degC

Power In = 0dBm

FREQUENCY (MHz)	VSWR								Off (terminated) State VSWR			
	(:1)								(:1)			
	COM RF1 Active	COM RF2 Active	COM RF3 Active	COM RF4 Active	RF1 RF1 Active	RF2 RF2 Active	RF3 RF3 Active	RF4 RF4 Active	RF1	RF2	RF3	RF4
1	1.23	1.23	1.20	1.21	1.23	1.24	1.17	1.23	1.09	1.09	1.09	1.07
10	1.21	1.21	1.18	1.20	1.22	1.22	1.15	1.21	1.09	1.09	1.09	1.07
50	1.21	1.22	1.18	1.20	1.22	1.22	1.15	1.22	1.09	1.09	1.09	1.07
100	1.21	1.22	1.18	1.20	1.22	1.22	1.15	1.21	1.09	1.09	1.10	1.08
200	1.22	1.22	1.20	1.21	1.22	1.22	1.15	1.21	1.10	1.09	1.09	1.08
300	1.24	1.24	1.20	1.21	1.21	1.22	1.16	1.22	1.09	1.09	1.08	1.06
400	1.25	1.25	1.19	1.21	1.21	1.22	1.16	1.21	1.09	1.08	1.08	1.06
500	1.25	1.25	1.20	1.21	1.21	1.22	1.15	1.21	1.09	1.08	1.08	1.07
700	1.25	1.25	1.22	1.22	1.21	1.22	1.15	1.21	1.09	1.08	1.07	1.07
1000	1.25	1.24	1.23	1.23	1.20	1.20	1.12	1.20	1.09	1.08	1.08	1.09
1100	1.25	1.24	1.23	1.24	1.19	1.20	1.12	1.20	1.09	1.09	1.08	1.09
1200	1.25	1.24	1.23	1.24	1.18	1.19	1.11	1.20	1.09	1.09	1.08	1.09
1300	1.25	1.24	1.23	1.24	1.17	1.18	1.10	1.20	1.09	1.09	1.08	1.10
1400	1.25	1.25	1.23	1.25	1.16	1.17	1.09	1.18	1.09	1.09	1.08	1.11
1500	1.26	1.26	1.23	1.25	1.16	1.16	1.08	1.17	1.09	1.09	1.09	1.11
1600	1.26	1.26	1.23	1.25	1.15	1.15	1.07	1.16	1.09	1.09	1.10	1.12
1700	1.26	1.27	1.23	1.25	1.14	1.14	1.06	1.15	1.08	1.09	1.10	1.12
1800	1.27	1.27	1.23	1.26	1.13	1.13	1.06	1.14	1.08	1.09	1.11	1.13
1900	1.26	1.27	1.23	1.26	1.13	1.14	1.06	1.14	1.08	1.09	1.12	1.14
2000	1.26	1.26	1.24	1.27	1.13	1.14	1.07	1.14	1.08	1.09	1.13	1.15
2100	1.26	1.28	1.25	1.27	1.14	1.15	1.07	1.14	1.09	1.10	1.14	1.16
2200	1.25	1.27	1.25	1.28	1.14	1.15	1.08	1.14	1.09	1.10	1.15	1.17
2400	1.25	1.27	1.26	1.30	1.15	1.16	1.09	1.15	1.12	1.12	1.18	1.20
2500	1.25	1.26	1.27	1.30	1.16	1.17	1.10	1.15	1.14	1.14	1.19	1.21
2600	1.25	1.27	1.28	1.31	1.16	1.17	1.11	1.16	1.16	1.15	1.20	1.23
2700	1.26	1.28	1.28	1.31	1.17	1.18	1.11	1.16	1.17	1.16	1.22	1.25
2800	1.25	1.27	1.27	1.30	1.17	1.17	1.11	1.16	1.19	1.17	1.23	1.26
3000	1.26	1.27	1.26	1.29	1.18	1.17	1.11	1.17	1.23	1.19	1.24	1.28
3200	1.25	1.26	1.23	1.26	1.19	1.17	1.10	1.18	1.26	1.20	1.25	1.30
3400	1.23	1.23	1.20	1.21	1.19	1.17	1.08	1.18	1.29	1.21	1.24	1.31
3600	1.20	1.17	1.16	1.15	1.19	1.15	1.05	1.16	1.31	1.22	1.23	1.31
3800	1.17	1.12	1.14	1.09	1.17	1.15	1.03	1.13	1.31	1.21	1.21	1.31
4000	1.12	1.06	1.10	1.06	1.12	1.15	1.04	1.09	1.31	1.20	1.18	1.30
4200	1.09	1.02	1.06	1.07	1.10	1.18	1.08	1.09	1.30	1.18	1.15	1.29
4400	1.10	1.05	1.04	1.09	1.09	1.21	1.12	1.12	1.29	1.16	1.12	1.28
4600	1.13	1.10	1.06	1.09	1.10	1.24	1.16	1.20	1.26	1.13	1.09	1.26
4800	1.18	1.14	1.11	1.09	1.13	1.28	1.20	1.28	1.23	1.11	1.07	1.25
5000	1.21	1.13	1.15	1.08	1.16	1.29	1.22	1.33	1.20	1.08	1.07	1.23
5200	1.23	1.15	1.22	1.09	1.20	1.30	1.25	1.40	1.17	1.07	1.08	1.22
5300	1.24	1.16	1.25	1.10	1.21	1.31	1.24	1.41	1.16	1.08	1.09	1.21
5400	1.22	1.14	1.28	1.11	1.22	1.32	1.23	1.41	1.15	1.08	1.11	1.21
5500	1.19	1.15	1.32	1.14	1.23	1.32	1.21	1.41	1.13	1.08	1.12	1.20
5600	1.20	1.16	1.33	1.16	1.24	1.32	1.19	1.40	1.12	1.10	1.13	1.20
5700	1.18	1.17	1.36	1.19	1.26	1.33	1.17	1.38	1.11	1.11	1.15	1.19
5800	1.21	1.23	1.37	1.22	1.30	1.35	1.16	1.40	1.11	1.12	1.16	1.19
5900	1.27	1.29	1.39	1.28	1.35	1.36	1.16	1.41	1.10	1.13	1.17	1.19
6000	1.31	1.34	1.38	1.33	1.38	1.36	1.14	1.42	1.10	1.14	1.18	1.18
6100	1.36	1.37	1.41	1.39	1.42	1.36	1.12	1.45	1.10	1.16	1.18	1.18
6200	1.45	1.43	1.43	1.45	1.46	1.35	1.12	1.48	1.09	1.16	1.19	1.17
6300	1.54	1.50	1.46	1.53	1.46	1.35	1.12	1.49	1.09	1.17	1.20	1.16
6400	1.64	1.61	1.50	1.61	1.48	1.36	1.14	1.53	1.09	1.17	1.20	1.15
6600	1.88	1.81	1.58	1.76	1.55	1.41	1.22	1.67	1.08	1.17	1.20	1.12
6800	2.06	1.94	1.75	1.92	1.61	1.45	1.31	1.78	1.07	1.17	1.18	1.07
7000	2.28	2.17	2.01	2.12	1.66	1.56	1.42	1.90	1.08	1.17	1.18	1.04

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/MCStore/terms.jsp

