

Typical Performance Data

RF FREQ (MHz)	INSERTION LOSS (dB)						RF FREQ (MHz)	ISOLATION (dB) (ENABLE-HIGH*)											
	VDD=+2.3V		VDD=+3V		VDD=+4.8V			VDD=+2.3V		VDD=+3V		VDD=+4.8V		VDD=+2.3V		VDD=+3V		VDD=+4.8V	
	RF COM-RF1	RF COM-RF2	RF COM-RF1	RF COM-RF2	RF COM-RF1	RF COM-RF2		RF COM-RF1	RF COM-RF2	RF COM-RF1	RF COM-RF2	RF COM-RF1	RF COM-RF2	RF1-RF2 Control LOW*	RF1-RF2 Control HIGH*	RF1-RF2 Control LOW*	RF1-RF2 Control HIGH*	RF1-RF2 Control LOW*	RF1-RF2 Control HIGH*
10.0	0.19	0.18	0.18	0.16	0.18	0.17	10.0	62.51	62.16	59.11	58.59	63.05	59.77	59.09	59.62	58.41	58.58	59.53	56.98
20.0	0.18	0.17	0.18	0.17	0.17	0.17	20.0	90.77	70.02	74.33	73.31	74.10	72.92	77.39	71.70	73.58	77.75	78.07	78.01
30.0	0.18	0.18	0.18	0.18	0.18	0.18	30.0	73.03	74.44	73.72	71.45	74.42	71.57	74.98	74.30	74.84	74.32	76.33	74.46
40.0	0.18	0.18	0.18	0.18	0.18	0.18	40.0	70.41	71.57	71.14	70.10	71.85	70.98	75.52	73.39	71.98	71.90	74.14	76.98
50.0	0.18	0.18	0.18	0.18	0.18	0.19	50.0	64.07	60.92	76.43	63.91	61.24	66.62	61.24	61.89	63.02	67.88	66.60	65.16
60.0	0.18	0.19	0.19	0.19	0.19	0.19	60.0	62.70	65.15	63.14	76.76	66.53	62.40	71.61	70.76	72.06	71.96	70.01	69.26
70.0	0.19	0.19	0.19	0.19	0.19	0.19	70.0	64.73	65.24	65.11	65.55	65.34	64.60	70.00	69.85	70.31	70.03	68.61	69.05
80.0	0.19	0.19	0.19	0.19	0.19	0.19	80.0	63.88	63.92	64.10	64.68	64.07	64.46	67.61	68.68	69.23	69.24	68.53	68.47
90.0	0.19	0.19	0.19	0.19	0.19	0.19	90.0	62.58	62.52	62.98	64.05	63.57	62.93	66.74	67.27	68.42	67.91	67.13	66.92
100.0	0.19	0.19	0.19	0.19	0.19	0.19	100.0	61.69	62.08	62.14	62.82	62.53	62.48	65.87	66.61	66.87	67.38	67.11	65.83
200.0	0.21	0.21	0.21	0.21	0.21	0.21	200.0	56.11	56.20	56.22	56.38	56.26	56.11	60.31	60.48	60.82	60.68	60.76	60.51
300.0	0.22	0.22	0.22	0.22	0.22	0.22	300.0	52.73	52.70	52.71	52.82	52.66	52.78	56.78	56.71	57.45	56.85	57.17	56.91
400.0	0.24	0.23	0.23	0.23	0.23	0.23	400.0	49.99	50.10	50.21	50.16	50.05	50.19	54.50	54.29	54.62	54.37	54.51	54.43
500.0	0.25	0.25	0.25	0.25	0.25	0.25	500.0	48.03	48.24	48.18	48.24	48.20	48.25	52.41	52.19	52.79	52.44	52.64	52.31
600.0	0.27	0.26	0.27	0.26	0.27	0.26	600.0	46.38	46.55	46.55	46.67	46.55	46.65	50.82	50.53	51.11	50.77	51.15	50.66
700.0	0.29	0.28	0.29	0.28	0.29	0.28	700.0	45.06	45.28	45.16	45.31	45.16	45.30	49.56	49.12	49.62	49.18	49.58	49.27
800.0	0.31	0.30	0.30	0.30	0.30	0.30	800.0	43.81	44.08	43.96	44.18	43.97	44.12	48.22	47.75	48.41	48.03	48.42	48.05
900.0	0.33	0.32	0.32	0.32	0.32	0.32	900.0	42.76	42.99	42.90	43.12	42.90	43.11	47.20	46.68	47.30	46.83	47.27	46.87
1000.0	0.35	0.34	0.34	0.34	0.34	0.34	1000.0	41.83	42.09	41.89	42.16	41.91	42.17	46.13	45.69	46.34	45.88	46.33	45.87
1100.0	0.37	0.36	0.37	0.36	0.36	0.36	1100.0	40.91	41.20	41.00	41.29	40.97	41.31	45.26	44.80	45.37	44.91	45.34	44.91
1200.0	0.39	0.39	0.38	0.38	0.38	0.38	1200.0	40.10	40.41	40.20	40.52	40.21	40.51	44.46	43.95	44.62	44.09	44.61	44.07
1300.0	0.40	0.41	0.40	0.41	0.40	0.41	1300.0	39.33	39.67	39.44	39.78	39.46	39.77	43.61	43.11	43.78	43.22	43.81	43.23
1400.0	0.42	0.43	0.42	0.43	0.42	0.43	1400.0	38.62	38.97	38.71	39.08	38.68	39.08	42.94	42.33	43.07	42.48	43.08	42.50
1500.0	0.43	0.45	0.43	0.45	0.43	0.45	1500.0	37.96	38.31	38.05	38.40	38.06	38.41	42.22	41.66	42.35	41.75	42.40	41.74
1600.0	0.45	0.46	0.44	0.46	0.44	0.46	1600.0	37.33	37.68	37.43	37.76	37.43	37.77	41.58	40.92	41.72	41.05	41.68	41.12
1700.0	0.46	0.47	0.46	0.47	0.46	0.47	1700.0	36.74	37.09	36.83	37.16	36.83	37.16	40.94	40.28	41.09	40.40	41.08	40.42
1800.0	0.47	0.48	0.46	0.48	0.46	0.48	1800.0	36.17	36.51	36.26	36.60	36.25	36.59	40.33	39.65	40.47	39.76	40.47	39.76
1900.0	0.47	0.49	0.47	0.48	0.47	0.48	1900.0	35.67	35.99	35.77	36.07	35.73	36.07	39.69	39.03	39.85	39.13	39.83	39.13
2000.0	0.47	0.48	0.47	0.48	0.47	0.48	2000.0	35.16	35.44	35.22	35.50	35.21	35.53	39.19	38.40	39.28	38.52	39.28	38.49
2100.0	0.47	0.48	0.47	0.48	0.47	0.48	2100.0	34.65	34.97	34.74	35.06	34.75	35.07	38.56	37.78	38.64	37.86	38.64	37.85
2200.0	0.47	0.47	0.46	0.47	0.46	0.47	2200.0	34.15	34.46	34.21	34.56	34.21	34.56	38.03	37.22	38.14	37.29	38.15	37.31
2300.0	0.46	0.47	0.46	0.46	0.46	0.46	2300.0	33.77	34.03	33.83	34.12	33.84	34.13	37.48	36.69	37.57	36.73	37.58	36.74
2400.0	0.46	0.46	0.46	0.46	0.46	0.46	2400.0	33.27	33.61	33.83	33.69	33.35	33.69	36.91	36.04	37.02	36.12	37.01	36.12
2500.0	0.46	0.46	0.45	0.45	0.45	0.45	2500.0	32.85	33.17	33.83	33.24	32.91	33.24	36.44	35.51	36.56	35.59	36.54	35.58
2600.0	0.45	0.45	0.45	0.45	0.45	0.45	2600.0	32.43	32.78	33.83	32.85	32.50	32.86	35.90	34.99	35.95	35.04	35.98	35.05
2700.0	0.46	0.45	0.46	0.45	0.45	0.45	2700.0	32.01	32.41	33.83	32.47	32.06	32.48	35.41	34.41	35.50	34.47	35.49	34.47
2800.0	0.46	0.46	0.46	0.46	0.46	0.46	2800.0	31.60	32.10	33.83	32.18	31.65	32.18	34.88	33.83	34.96	33.88	34.96	33.88
2900.0	0.47	0.47	0.46	0.47	0.46	0.47	2900.0	31.20	31.76	33.83	31.84	31.27	31.83	34.40	33.31	34.48	33.35	34.48	33.35
3000.0	0.47	0.47	0.47	0.47	0.47	0.47	3000.0	30.73	31.41	33.83	31.47	30.79	31.48	33.90	32.73	33.98	32.77	33.97	32.78

*Note:

State of:		RF Common to	
Control Voltage	Enable	RF1	RF2
HIGH	HIGH	ON	OFF
LOW	HIGH	OFF	ON
LOW/HIGH	LOW	Shutdown	

ON - Low insertion loss state
OFF - Isolation state



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IF/RF MICROWAVE COMPONENTS

REV. OR
JSW2-33DR-75+

4/7/2014

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Typical Performance Data

RF FREQ (MHz)	VSWR (:1)-ON STATE (ENABLE-HIGH*)												RF FREQ (MHz)	VSWR (:1)- OFF STATE (ENABLE-HIGH*)									
	VDD=+2.3V				VDD=+3V				VDD=+4.8V					VDD=+2.3V		VDD=+3V		VDD=+4.8V					
	RF COM			RF1	RF2	RF COM			RF1	RF2	RF COM			RF1	RF2	RF COM			RF1	RF2			
	Control LOW*	Control HIGH*	Control HIGH*	Control LOW*	Control LOW*	Control HIGH*	Control HIGH*	Control LOW*	Control LOW*	Control HIGH*	Control HIGH*	Control LOW*		Control LOW*	Control HIGH*	Control HIGH*	Control LOW*	Control LOW*	Control HIGH*	Control HIGH*	Control LOW*	Control LOW*	Control HIGH*
10.0	1.02	1.03	1.02	1.02	1.02	1.03	1.03	1.02	1.02	1.02	1.03	1.02	1.02	1.02	1.03	1.02	1.02	1.02	1.02	1.02	1.03	1.02	1.02
20.0	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02
30.0	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02
40.0	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02
50.0	1.03	1.02	1.02	1.02	1.02	1.03	1.02	1.02	1.02	1.03	1.02	1.02	1.03	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.03	1.02	1.02
60.0	1.03	1.03	1.03	1.03	1.03	1.03	1.02	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03
70.0	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03
80.0	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03
90.0	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03
100.0	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03
200.0	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05
300.0	1.08	1.07	1.07	1.07	1.08	1.07	1.07	1.07	1.08	1.07	1.07	1.07	1.08	1.07	1.07	1.07	1.07	1.07	1.07	1.07	1.07	1.07	1.07
400.0	1.10	1.10	1.10	1.09	1.10	1.10	1.10	1.09	1.10	1.10	1.10	1.09	1.10	1.10	1.10	1.09	1.10	1.09	1.10	1.09	1.10	1.09	1.10
500.0	1.13	1.12	1.12	1.11	1.13	1.12	1.12	1.11	1.13	1.12	1.12	1.11	1.13	1.12	1.12	1.11	1.13	1.12	1.12	1.11	1.13	1.12	1.12
600.0	1.16	1.15	1.15	1.14	1.16	1.15	1.15	1.14	1.16	1.15	1.15	1.14	1.16	1.15	1.15	1.14	1.16	1.15	1.15	1.14	1.16	1.15	1.15
700.0	1.18	1.18	1.18	1.17	1.18	1.18	1.18	1.17	1.18	1.18	1.18	1.17	1.18	1.18	1.18	1.17	1.18	1.18	1.18	1.17	1.18	1.18	1.17
800.0	1.21	1.21	1.20	1.20	1.21	1.21	1.20	1.20	1.21	1.21	1.20	1.20	1.21	1.21	1.20	1.20	1.21	1.21	1.20	1.20	1.21	1.21	1.20
900.0	1.23	1.23	1.23	1.22	1.23	1.23	1.23	1.22	1.23	1.23	1.23	1.22	1.23	1.23	1.23	1.22	1.23	1.23	1.23	1.22	1.23	1.23	1.22
1000.0	1.25	1.26	1.25	1.24	1.25	1.26	1.25	1.24	1.25	1.26	1.25	1.24	1.25	1.26	1.25	1.24	1.25	1.26	1.25	1.24	1.25	1.26	1.25
1100.0	1.27	1.28	1.27	1.26	1.27	1.28	1.27	1.26	1.27	1.28	1.27	1.26	1.27	1.28	1.27	1.26	1.27	1.28	1.27	1.26	1.27	1.28	1.27
1200.0	1.29	1.31	1.28	1.29	1.29	1.31	1.28	1.29	1.29	1.31	1.28	1.29	1.29	1.31	1.28	1.29	1.29	1.31	1.28	1.29	1.29	1.31	1.28
1300.0	1.30	1.32	1.29	1.30	1.30	1.32	1.29	1.30	1.30	1.32	1.29	1.30	1.30	1.32	1.29	1.30	1.30	1.32	1.29	1.30	1.30	1.32	1.29
1400.0	1.31	1.34	1.30	1.32	1.31	1.34	1.30	1.32	1.31	1.34	1.30	1.32	1.31	1.34	1.30	1.32	1.31	1.34	1.30	1.32	1.31	1.34	1.30
1500.0	1.31	1.34	1.31	1.32	1.31	1.34	1.31	1.32	1.31	1.34	1.31	1.32	1.31	1.34	1.31	1.32	1.31	1.34	1.31	1.32	1.31	1.34	1.31
1600.0	1.31	1.34	1.31	1.32	1.31	1.34	1.31	1.32	1.31	1.34	1.31	1.32	1.31	1.34	1.31	1.32	1.31	1.34	1.31	1.32	1.31	1.34	1.31
1700.0	1.31	1.33	1.30	1.32	1.31	1.33	1.30	1.32	1.31	1.33	1.30	1.32	1.31	1.33	1.30	1.32	1.31	1.33	1.30	1.32	1.31	1.33	1.30
1800.0	1.30	1.32	1.29	1.31	1.30	1.32	1.29	1.31	1.30	1.32	1.29	1.31	1.30	1.32	1.29	1.31	1.30	1.32	1.29	1.31	1.30	1.32	1.29
1900.0	1.28	1.31	1.28	1.29	1.28	1.31	1.28	1.29	1.28	1.31	1.28	1.29	1.28	1.31	1.28	1.29	1.28	1.31	1.28	1.29	1.28	1.31	1.28
2000.0	1.26	1.28	1.26	1.27	1.26	1.28	1.26	1.27	1.26	1.28	1.26	1.27	1.26	1.28	1.26	1.27	1.26	1.28	1.26	1.27	1.26	1.28	1.26
2100.0	1.24	1.26	1.23	1.24	1.24	1.26	1.23	1.24	1.24	1.26	1.23	1.24	1.24	1.26	1.23	1.24	1.24	1.26	1.23	1.24	1.24	1.26	1.23
2200.0	1.21	1.22	1.21	1.21	1.21	1.22	1.21	1.21	1.21	1.22	1.21	1.21	1.21	1.22	1.21	1.21	1.21	1.22	1.21	1.21	1.21	1.22	1.21
2300.0	1.19	1.19	1.18	1.17	1.19	1.19	1.18	1.17	1.19	1.19	1.18	1.17	1.19	1.19	1.18	1.17	1.19	1.19	1.18	1.17	1.19	1.19	1.18
2400.0	1.16	1.15	1.15	1.14	1.16	1.15	1.15	1.14	1.16	1.15	1.15	1.14	1.16	1.15	1.15	1.14	1.16	1.15	1.15	1.14	1.16	1.15	1.15
2500.0	1.13	1.12	1.13	1.10	1.13	1.12	1.13	1.10	1.13	1.12	1.13	1.10	1.13	1.12	1.13	1.10	1.13	1.12	1.13	1.10	1.13	1.12	1.13
2600.0	1.10	1.09	1.10	1.07	1.10	1.09	1.10	1.07	1.10	1.09	1.10	1.07	1.10	1.09	1.10	1.07	1.10	1.09	1.10	1.07	1.10	1.09	1.10
2700.0	1.07	1.06	1.08	1.03	1.07	1.06	1.08	1.03	1.07	1.06	1.08	1.03	1.07	1.06	1.08	1.03	1.07	1.06	1.08	1.03	1.07	1.06	1.08
2800.0	1.05	1.04	1.06	1.02	1.05	1.04	1.06	1.02	1.05	1.04	1.06	1.02	1.05	1.04	1.06	1.02	1.05	1.04	1.06	1.02	1.05	1.04	1.06
2900.0	1.03	1.03	1.04	1.03	1.03	1.03	1.04	1.03	1.03	1.03	1.03	1.04	1.03	1.03	1.03	1.04	1.03	1.03	1.03	1.04	1.03	1.03	1.04
3000.0	1.02	1.04	1.02	1.05	1.02	1.04	1.03	1.05	1.02	1.04	1.03	1.05	1.02	1.04	1.03	1.05	1.02	1.04	1.03	1.05	1.02	1.04	1.03

*Note:

State of:		RF Common to	
Control Voltage	Enable	RF1	RF2
HIGH	HIGH	ON	OFF
LOW	HIGH	OFF	ON
LOW/HIGH	LOW	Shutdown	

ON - Low insertion loss state
OFF - Isolation state



RF Switch SPDT

JSW2-33DR-75+

Typical Performance Data

RF FREQ (MHz)	INPUT IP3 (dBm)		RF FREQ (MHz)	COMPRESSION (dB) @ FIXED POWER FOR PIN=34.5dBm	
	VDD=+3V			VDD=+3V	
	RF COM-RF1	RF COM-RF2		RF COM-RF1	RF COM-RF2
10.0	56.33	56.63	200.0	0.00	0.00
50.0	60.08	59.79	300.0	0.00	0.00
100.0	61.79	61.16	400.0	0.00	0.00
200.0	63.24	63.12	500.0	0.00	0.01
300.0	61.57	60.60	600.0	-0.02	-0.01
400.0	63.08	62.28	700.0	-0.01	-0.01
500.0	67.05	67.90	800.0	-0.02	-0.02
600.0	62.28	62.59	900.0	-0.01	-0.02
700.0	65.27	65.45	1000.0	-0.03	-0.02
800.0	62.01	62.30	1200.0	-0.02	-0.02
900.0	62.65	62.58	1400.0	-0.05	-0.03
1000.0	67.76	66.95	1600.0	-0.05	-0.05
1200.0	62.06	62.89	1800.0	-0.06	-0.06
1400.0	64.26	66.77	2000.0	-0.08	-0.06
1600.0	64.66	63.98	2200.0	-0.08	-0.07
1800.0	65.54	67.66	2400.0	-0.08	-0.07
2000.0	64.02	64.13	2600.0	0.02	0.00
2200.0	63.16	63.48	2800.0	0.02	0.00
2400.0	63.49	65.64	3000.0	0.02	0.02
2600.0	65.25	65.25			
2800.0	65.96	66.00			
3000.0	63.76	63.17			

Typical Performance Data

RF FREQ (MHz)	INSERTION LOSS (dB) @ VDD=+3V OVER TEMPERATURE (ENABLE-HIGH*)						RF FREQ (MHz)	ISOLATION (dB) @ VDD=+3V OVER TEMPERATURE (ENABLE-HIGH*)											
	RF COM-RF1			RF COM-RF2				RF COM-RF1			RF COM-RF2			RF1-RF2 Control LOW*			RF1-RF2 Control HIGH*		
	-45°C	+25°C	+85°C	-45°C	+25°C	+85°C		-45°C	+25°C	+85°C	-45°C	+25°C	+85°C	-45°C	+25°C	+85°C	-45°C	+25°C	+85°C
10.0	0.14	0.18	0.22	0.12	0.16	0.21	10.0	58.37	59.11	59.49	58.59	62.45	61.73	57.92	58.41	56.98	58.58	58.12	59.15
20.0	0.13	0.18	0.21	0.13	0.17	0.21	20.0	77.35	74.33	84.18	73.31	74.26	71.77	76.96	73.58	78.01	77.75	88.31	72.91
30.0	0.14	0.18	0.22	0.14	0.18	0.22	30.0	89.35	73.72	72.92	71.45	76.52	70.27	73.93	74.84	74.46	74.32	78.42	73.86
40.0	0.14	0.18	0.22	0.14	0.18	0.22	40.0	74.04	71.14	69.76	70.10	71.71	69.23	77.28	71.98	76.98	71.90	79.28	71.63
50.0	0.14	0.18	0.22	0.15	0.18	0.22	50.0	61.59	76.43	66.77	63.91	68.02	60.48	65.85	63.02	65.16	67.88	65.41	64.42
60.0	0.15	0.19	0.22	0.15	0.19	0.22	60.0	68.01	63.14	61.06	76.76	62.98	62.32	72.11	72.06	69.26	71.96	72.23	69.05
70.0	0.15	0.19	0.22	0.15	0.19	0.22	70.0	67.08	65.11	64.19	65.55	67.18	63.93	72.78	70.31	69.05	70.03	72.39	67.85
80.0	0.15	0.19	0.22	0.15	0.19	0.23	80.0	66.12	64.10	62.21	64.68	65.85	62.49	72.33	69.23	68.47	69.24	71.24	66.35
90.0	0.15	0.19	0.23	0.15	0.19	0.23	90.0	64.89	62.98	61.38	64.05	64.94	61.48	70.26	68.42	66.92	67.91	70.75	65.58
100.0	0.15	0.19	0.23	0.16	0.19	0.23	100.0	63.98	62.14	60.43	62.82	64.11	60.44	70.14	66.87	65.83	67.38	70.25	64.89
200.0	0.16	0.21	0.25	0.16	0.21	0.25	200.0	57.74	56.22	55.08	56.38	57.75	54.98	63.63	60.82	60.51	60.68	63.15	58.67
300.0	0.17	0.22	0.27	0.17	0.22	0.27	300.0	54.18	52.71	51.21	52.82	54.14	51.48	60.18	57.45	56.91	56.85	59.88	54.88
400.0	0.18	0.23	0.29	0.17	0.23	0.29	400.0	51.49	50.21	48.85	50.16	51.66	48.97	57.33	54.62	54.43	54.37	56.98	52.47
500.0	0.19	0.25	0.31	0.18	0.25	0.31	500.0	49.59	48.18	46.92	48.24	49.66	47.02	55.08	52.79	52.31	52.44	54.74	50.36
600.0	0.20	0.27	0.33	0.19	0.26	0.33	600.0	47.84	46.55	45.35	46.67	48.09	45.40	53.43	51.11	50.66	50.77	52.93	48.86
700.0	0.21	0.29	0.35	0.21	0.28	0.35	700.0	46.46	45.16	43.95	45.31	46.66	44.09	51.86	49.62	49.27	49.18	51.46	47.46
800.0	0.22	0.30	0.37	0.22	0.30	0.37	800.0	45.26	43.96	42.79	44.18	45.49	42.93	50.65	48.41	48.05	48.03	50.12	46.23
900.0	0.24	0.32	0.39	0.23	0.32	0.39	900.0	44.17	42.90	41.73	43.12	44.47	41.89	49.48	47.30	46.87	46.83	48.88	45.22
1000.0	0.25	0.34	0.41	0.24	0.34	0.41	1000.0	43.09	41.89	40.80	42.16	43.44	40.89	48.45	46.34	45.87	45.88	47.78	44.19
1100.0	0.27	0.37	0.43	0.27	0.36	0.43	1100.0	42.16	41.00	39.96	41.29	42.55	40.06	47.45	45.37	44.91	44.91	46.77	43.33
1200.0	0.28	0.38	0.45	0.29	0.38	0.45	1200.0	41.34	40.20	39.18	40.52	41.72	39.29	46.54	44.62	44.07	44.09	45.80	42.46
1300.0	0.30	0.40	0.46	0.31	0.41	0.46	1300.0	40.49	39.44	38.45	39.78	40.97	38.58	45.67	43.78	43.23	43.22	44.91	41.66
1400.0	0.32	0.42	0.47	0.34	0.43	0.49	1400.0	39.77	38.71	37.77	39.08	40.18	37.87	44.82	43.07	42.50	42.48	44.11	40.95
1500.0	0.32	0.43	0.49	0.36	0.45	0.50	1500.0	39.10	38.05	37.16	38.40	39.46	37.25	44.08	42.35	41.74	41.75	43.29	40.29
1600.0	0.33	0.44	0.51	0.37	0.46	0.52	1600.0	38.41	37.43	36.54	37.76	38.77	36.63	43.28	41.72	41.12	41.05	42.51	39.60
1700.0	0.33	0.46	0.53	0.36	0.47	0.54	1700.0	37.81	36.83	35.96	37.16	38.05	36.09	42.54	41.09	40.42	40.40	41.70	38.98
1800.0	0.33	0.46	0.54	0.36	0.48	0.55	1800.0	37.24	36.26	35.40	36.60	37.43	35.55	41.80	40.47	39.76	39.76	40.97	38.39
1900.0	0.32	0.47	0.57	0.36	0.48	0.57	1900.0	36.69	35.77	34.89	36.07	36.78	35.05	40.98	39.85	39.13	39.13	40.21	37.83
2000.0	0.32	0.47	0.58	0.34	0.48	0.58	2000.0	36.20	35.22	34.35	35.50	36.18	34.59	40.30	39.28	38.49	38.52	39.53	37.26
2100.0	0.31	0.47	0.59	0.32	0.48	0.59	2100.0	35.73	34.74	33.89	35.06	35.67	34.17	39.51	38.64	37.85	37.86	38.79	36.72
2200.0	0.29	0.46	0.60	0.31	0.47	0.61	2200.0	35.22	34.21	33.37	34.56	35.08	33.72	38.84	38.14	37.31	37.29	38.07	36.21
2300.0	0.29	0.46	0.61	0.29	0.46	0.61	2300.0	34.82	33.83	33.37	34.12	34.60	33.31	38.29	37.57	36.74	36.73	37.47	35.76
2400.0	0.28	0.46	0.61	0.28	0.46	0.62	2400.0	34.32	33.36	33.37	33.69	34.20	32.90	37.58	37.02	36.12	36.12	36.76	35.29
2500.0	0.28	0.45	0.61	0.27	0.45	0.63	2500.0	33.83	32.91	33.37	33.24	33.84	32.50	37.10	36.56	35.58	35.59	36.12	34.81
2600.0	0.27	0.45	0.61	0.27	0.45	0.63	2600.0	33.38	32.50	33.37	32.85	33.51	32.12	36.53	35.95	35.05	35.04	35.44	34.32
2700.0	0.27	0.46	0.61	0.28	0.45	0.63	2700.0	32.87	32.06	33.37	32.47	33.19	31.73	36.04	35.50	34.47	34.47	34.83	33.87
2800.0	0.28	0.46	0.61	0.28	0.46	0.63	2800.0	32.34	31.65	33.37	32.18	32.95	31.38	35.50	34.96	33.88	33.88	34.15	33.33
2900.0	0.27	0.46	0.61	0.28	0.47	0.63	2900.0	31.79	31.26	33.37	31.84	32.62	30.97	35.01	34.48	33.35	33.35	33.59	32.86
3000.0	0.28	0.47	0.62	0.28	0.47	0.64	3000.0	31.22	30.79	30.35	31.47	32.29	30.58	34.57	33.98	32.78	32.77	33.04	32.37

*Note:

Control Voltage	State of:		RF Common to	
	Enable		RF1	RF2
HIGH	HIGH		ON	OFF
LOW	HIGH		OFF	ON
LOW/HIGH	LOW		Shutdown	

ON - Low insertion loss state
OFF - Isolation state



RF Switch SPDT

JSW2-33DR-75+

Typical Performance Data

RF FREQ (MHz)	VSWR (:1) @ VDD=+3V OVER TEMPERATURE (ON STATE, ENABLE-HIGH*)												RF FREQ (MHz)	VSWR (:1) @ VDD=+3V OVER TEMPERATURE (OFF STATE, ENABLE-HIGH*)						
	RF COM						RF1			RF2				RF1			RF2			
	Control HIGH*			Control LOW*			Control HIGH*			Control LOW*				Control LOW*			Control HIGH*			
	-45°C	+25°C	+85°C	-45°C	+25°C	+85°C	-45°C	+25°C	+85°C	-45°C	+25°C	+85°C		-45°C	+25°C	+85°C	-45°C	+25°C	+85°C	-45°C
10.0	1.02	1.02	1.03	1.02	1.03	1.03	1.02	1.03	1.03	1.03	1.02	1.03	1.03	10.0	7.41	5.67	4.55	7.42	5.76	4.60
20.0	1.03	1.02	1.03	1.02	1.02	1.03	1.02	1.02	1.03	1.02	1.02	1.03	1.03	20.0	7.36	5.70	4.57	7.45	5.74	4.59
30.0	1.03	1.02	1.03	1.03	1.02	1.03	1.03	1.02	1.03	1.03	1.02	1.03	1.03	30.0	7.32	5.70	4.58	7.40	5.73	4.60
40.0	1.04	1.02	1.03	1.04	1.02	1.03	1.03	1.02	1.03	1.03	1.02	1.03	1.03	40.0	7.28	5.69	4.58	7.35	5.72	4.61
50.0	1.04	1.03	1.03	1.04	1.03	1.03	1.03	1.02	1.03	1.03	1.02	1.03	1.03	50.0	7.24	5.70	4.60	7.32	5.71	4.62
60.0	1.04	1.03	1.03	1.04	1.02	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	60.0	7.24	5.69	4.60	7.27	5.71	4.63
70.0	1.04	1.03	1.02	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	70.0	7.22	5.68	4.61	7.25	5.71	4.64
80.0	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	80.0	7.20	5.68	4.62	7.23	5.70	4.65
90.0	1.03	1.03	1.03	1.02	1.03	1.04	1.02	1.03	1.04	1.02	1.03	1.03	1.03	90.0	7.18	5.67	4.62	7.22	5.69	4.65
100.0	1.02	1.03	1.04	1.02	1.03	1.04	1.02	1.03	1.04	1.02	1.03	1.04	1.04	100.0	7.16	5.66	4.62	7.22	5.69	4.65
200.0	1.03	1.05	1.07	1.04	1.05	1.06	1.03	1.05	1.07	1.04	1.05	1.06	1.06	200.0	7.21	5.60	4.53	7.30	5.64	4.52
300.0	1.05	1.08	1.09	1.04	1.07	1.09	1.05	1.07	1.09	1.04	1.07	1.09	1.09	300.0	7.13	5.54	4.47	7.17	5.57	4.53
400.0	1.07	1.10	1.13	1.08	1.10	1.12	1.07	1.10	1.12	1.08	1.09	1.12	1.08	400.0	7.05	5.47	4.44	7.18	5.51	4.43
500.0	1.11	1.13	1.15	1.10	1.12	1.15	1.11	1.12	1.15	1.10	1.11	1.14	1.14	500.0	7.02	5.40	4.35	7.06	5.45	4.38
600.0	1.15	1.16	1.17	1.14	1.15	1.18	1.15	1.15	1.17	1.14	1.14	1.17	1.17	600.0	6.87	5.32	4.29	7.03	5.39	4.30
700.0	1.18	1.18	1.19	1.18	1.18	1.20	1.17	1.18	1.19	1.17	1.17	1.19	1.19	700.0	6.76	5.24	4.21	6.92	5.32	4.25
800.0	1.20	1.21	1.21	1.20	1.21	1.22	1.20	1.20	1.20	1.20	1.20	1.21	1.21	800.0	6.64	5.16	4.14	6.77	5.25	4.17
900.0	1.23	1.23	1.22	1.23	1.23	1.24	1.22	1.23	1.21	1.22	1.22	1.23	1.23	900.0	6.57	5.09	4.07	6.71	5.17	4.10
1000.0	1.24	1.25	1.23	1.25	1.26	1.25	1.24	1.25	1.23	1.24	1.24	1.24	1.24	1000.0	6.47	5.02	4.02	6.65	5.10	4.03
1100.0	1.26	1.27	1.24	1.29	1.28	1.26	1.26	1.27	1.24	1.27	1.26	1.25	1.25	1100.0	6.42	4.96	3.99	6.62	5.04	3.96
1200.0	1.28	1.29	1.25	1.32	1.31	1.27	1.28	1.28	1.24	1.31	1.29	1.26	1.26	1200.0	6.36	4.90	3.96	6.53	4.97	3.90
1300.0	1.29	1.30	1.26	1.35	1.32	1.28	1.29	1.29	1.24	1.33	1.30	1.27	1.27	1300.0	6.32	4.84	3.93	6.46	4.90	3.84
1400.0	1.32	1.31	1.27	1.38	1.34	1.28	1.31	1.30	1.25	1.37	1.32	1.27	1.27	1400.0	6.24	4.78	3.89	6.37	4.84	3.79
1500.0	1.31	1.31	1.27	1.38	1.34	1.28	1.31	1.31	1.26	1.37	1.32	1.27	1.27	1500.0	6.18	4.73	3.86	6.24	4.77	3.76
1600.0	1.31	1.31	1.28	1.39	1.34	1.28	1.31	1.31	1.26	1.38	1.32	1.27	1.27	1600.0	6.17	4.70	3.84	6.16	4.72	3.73
1700.0	1.29	1.31	1.29	1.37	1.33	1.28	1.29	1.30	1.27	1.36	1.32	1.27	1.27	1700.0	6.17	4.67	3.82	6.03	4.67	3.71
1800.0	1.28	1.30	1.29	1.35	1.32	1.27	1.28	1.29	1.27	1.35	1.31	1.27	1.27	1800.0	6.17	4.65	3.80	5.97	4.63	3.69
1900.0	1.26	1.28	1.29	1.33	1.31	1.27	1.25	1.28	1.28	1.32	1.29	1.26	1.26	1900.0	6.18	4.62	3.77	5.86	4.59	3.68
2000.0	1.24	1.26	1.28	1.30	1.28	1.27	1.23	1.26	1.27	1.28	1.27	1.25	1.25	2000.0	6.24	4.63	3.76	5.79	4.57	3.69
2100.0	1.21	1.24	1.28	1.27	1.26	1.26	1.20	1.23	1.27	1.24	1.24	1.25	1.25	2100.0	6.24	4.62	3.74	5.76	4.56	3.69
2200.0	1.18	1.21	1.27	1.24	1.22	1.25	1.17	1.21	1.26	1.20	1.21	1.24	1.24	2200.0	6.30	4.63	3.73	5.74	4.56	3.69
2300.0	1.16	1.19	1.25	1.20	1.19	1.24	1.15	1.18	1.24	1.15	1.21	1.22	1.22	2300.0	6.34	4.64	3.71	5.79	4.58	3.71
2400.0	1.13	1.16	1.22	1.17	1.15	1.23	1.12	1.15	1.22	1.09	1.21	1.21	1.21	2400.0	6.34	4.66	3.70	5.92	4.61	3.70
2500.0	1.12	1.13	1.19	1.15	1.12	1.20	1.10	1.13	1.19	1.06	1.21	1.19	1.19	2500.0	6.37	4.68	3.69	6.07	4.66	3.69
2600.0	1.09	1.10	1.16	1.13	1.09	1.17	1.07	1.10	1.16	1.06	1.21	1.17	1.17	2600.0	6.41	4.71	3.69	6.25	4.71	3.68
2700.0	1.07	1.07	1.12	1.12	1.06	1.15	1.06	1.08	1.13	1.09	1.21	1.14	1.14	2700.0	6.45	4.75	3.71	6.49	4.77	3.65
2800.0	1.06	1.05	1.09	1.12	1.04	1.11	1.04	1.06	1.10	1.11	1.21	1.11	1.11	2800.0	6.47	4.80	3.74	6.69	4.84	3.64
2900.0	1.05	1.03	1.05	1.10	1.03	1.09	1.04	1.04	1.07	1.11	1.21	1.08	1.08	2900.0	6.53	4.86	3.80	6.91	4.91	3.62
3000.0	1.05	1.02	1.02	1.09	1.04	1.07	1.04	1.03	1.04	1.11	1.05	1.05	1.05	3000.0	6.53	4.91	3.87	7.06	4.99	3.61

*Note:

State of:		RF Common to	
Control Voltage	Enable	RF1	RF2
HIGH	HIGH	ON	OFF
LOW	HIGH	OFF	ON
LOW/HIGH	LOW	Shutdown	
ON - Low insertion loss state			
OFF - Isolation state			



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IF/RF MICROWAVE COMPONENTS

REV. OR
JSW2-33DR-75+

4/7/2014

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Typical Performance Data

RF FREQ (MHz)	INSERTION LOSS (dB) @ VDD=+2.3V OVER TEMPERATURE (ENABLE-HIGH*)						RF FREQ (MHz)	ISOLATION (dB) @ VDD=+2.3V OVER TEMPERATURE (ENABLE-HIGH*)											
	RF COM-RF1			RF COM-RF2				RF COM-RF1			RF COM-RF2			RF1-RF2 Control LOW*			RF1-RF2 Control HIGH*		
	-45°C	+25°C	+85°C	-45°C	+25°C	+85°C		-45°C	+25°C	+85°C	-45°C	+25°C	+85°C	-45°C	+25°C	+85°C	-45°C	+25°C	+85°C
10.0	0.13	0.19	0.23	0.13	0.18	0.21	10.0	63.92	62.51	61.31	62.16	59.65	60.43	57.01	59.09	58.12	59.62	58.29	59.79
20.0	0.13	0.18	0.22	0.13	0.17	0.22	20.0	77.71	90.77	74.32	70.02	77.94	70.33	80.20	77.39	88.31	71.70	74.23	78.79
30.0	0.14	0.18	0.22	0.14	0.18	0.22	30.0	90.67	73.03	76.96	74.44	74.67	70.18	78.41	74.98	78.42	74.30	74.50	73.26
40.0	0.14	0.18	0.22	0.15	0.18	0.22	40.0	74.11	70.41	68.57	71.57	72.34	68.02	77.04	75.52	79.28	73.39	77.67	72.12
50.0	0.14	0.18	0.22	0.14	0.18	0.23	50.0	64.04	64.07	60.94	60.92	68.29	60.62	66.91	61.24	65.41	61.89	64.03	63.89
60.0	0.15	0.18	0.22	0.15	0.19	0.22	60.0	63.62	62.70	62.47	65.15	63.99	65.89	72.79	71.61	72.23	70.76	76.11	67.57
70.0	0.15	0.19	0.22	0.15	0.19	0.23	70.0	67.71	64.73	63.73	65.24	66.99	63.78	71.26	70.00	72.39	69.85	74.27	66.67
80.0	0.15	0.19	0.23	0.15	0.19	0.23	80.0	65.68	63.88	62.64	63.92	65.80	62.54	71.20	67.61	71.24	68.68	73.14	65.71
90.0	0.15	0.19	0.23	0.16	0.19	0.23	90.0	64.34	62.58	61.42	62.52	65.01	61.83	70.72	66.74	70.75	67.27	71.77	64.80
100.0	0.16	0.19	0.23	0.16	0.19	0.23	100.0	63.32	61.69	60.74	62.08	63.77	60.61	69.96	65.87	70.25	66.61	70.26	63.54
200.0	0.17	0.21	0.25	0.17	0.21	0.25	200.0	57.72	56.11	54.79	56.20	57.61	54.84	63.24	60.31	63.15	60.48	63.13	58.04
300.0	0.17	0.22	0.27	0.17	0.22	0.27	300.0	54.13	52.73	51.19	52.70	54.07	51.29	60.09	56.78	59.88	56.71	59.39	54.63
400.0	0.18	0.24	0.29	0.18	0.23	0.29	400.0	51.44	49.99	48.75	50.10	51.59	48.78	57.01	54.50	56.98	54.29	56.76	52.27
500.0	0.19	0.25	0.31	0.18	0.25	0.31	500.0	49.54	48.03	46.77	48.24	49.53	46.84	54.90	52.41	54.74	52.19	54.62	50.19
600.0	0.20	0.27	0.33	0.19	0.26	0.33	600.0	47.81	46.38	45.19	46.55	48.03	45.29	53.24	50.82	52.93	50.53	52.73	48.63
700.0	0.21	0.29	0.35	0.21	0.28	0.35	700.0	46.38	45.06	43.87	45.28	46.53	43.95	51.79	49.56	51.46	49.12	51.42	47.28
800.0	0.23	0.31	0.37	0.22	0.30	0.37	800.0	45.19	43.81	42.70	44.08	45.40	42.77	50.52	48.22	50.12	47.75	49.88	46.08
900.0	0.24	0.33	0.39	0.23	0.32	0.39	900.0	44.03	42.76	41.60	42.99	44.32	41.73	49.35	47.20	48.88	46.68	48.79	44.99
1000.0	0.25	0.35	0.41	0.25	0.34	0.41	1000.0	43.05	41.83	40.68	42.09	43.37	40.78	48.26	46.13	47.78	45.69	47.60	44.03
1100.0	0.27	0.37	0.43	0.27	0.36	0.43	1100.0	42.11	40.91	39.86	41.20	42.47	39.94	47.34	45.26	46.77	44.80	46.61	43.14
1200.0	0.28	0.39	0.45	0.29	0.39	0.45	1200.0	41.25	40.10	39.06	40.41	41.68	39.17	46.41	44.46	45.80	43.95	45.70	42.30
1300.0	0.30	0.40	0.46	0.31	0.41	0.47	1300.0	40.47	39.33	38.35	39.67	40.87	38.43	45.57	43.61	44.91	43.11	44.80	41.52
1400.0	0.32	0.42	0.48	0.34	0.43	0.49	1400.0	39.72	38.62	37.67	38.97	40.13	37.80	44.80	42.94	44.11	42.33	44.00	40.82
1500.0	0.32	0.43	0.49	0.36	0.45	0.50	1500.0	39.06	37.96	37.06	38.31	39.39	37.13	43.96	42.22	43.29	41.66	43.18	40.12
1600.0	0.33	0.45	0.51	0.37	0.46	0.52	1600.0	38.37	37.33	36.43	37.68	38.69	36.53	43.21	41.58	42.51	40.92	42.40	39.49
1700.0	0.33	0.46	0.53	0.37	0.47	0.54	1700.0	37.76	36.74	35.87	37.09	37.99	35.96	42.42	40.94	41.70	40.28	41.69	38.85
1800.0	0.33	0.47	0.55	0.37	0.48	0.56	1800.0	37.18	36.17	35.30	36.51	37.39	35.45	41.65	40.33	40.97	39.65	40.90	38.28
1900.0	0.32	0.47	0.57	0.36	0.49	0.57	1900.0	36.66	35.67	34.80	35.99	36.75	34.97	40.91	39.69	40.21	39.03	40.16	37.70
2000.0	0.32	0.47	0.58	0.34	0.48	0.58	2000.0	36.15	35.16	34.28	35.44	36.12	34.51	40.25	39.19	39.53	38.40	39.47	37.13
2100.0	0.31	0.47	0.59	0.32	0.48	0.60	2100.0	35.68	34.65	33.79	34.97	35.59	34.07	39.46	38.56	38.79	37.78	38.70	36.61
2200.0	0.30	0.47	0.60	0.31	0.47	0.61	2200.0	35.18	34.15	33.30	34.46	35.03	33.62	38.79	38.03	38.07	37.22	38.00	36.10
2300.0	0.29	0.46	0.61	0.29	0.47	0.62	2300.0	34.74	33.77	33.30	34.03	34.55	33.21	38.23	37.48	37.47	36.69	37.40	35.68
2400.0	0.28	0.46	0.61	0.28	0.46	0.62	2400.0	34.27	33.27	33.30	33.61	34.15	32.80	37.55	36.91	36.76	36.04	36.71	35.19
2500.0	0.28	0.46	0.61	0.27	0.46	0.63	2500.0	33.80	32.85	33.30	33.17	33.79	32.40	37.03	36.44	36.12	35.51	36.06	34.72
2600.0	0.27	0.45	0.61	0.28	0.45	0.63	2600.0	33.34	32.43	33.30	32.78	33.47	32.05	36.49	35.90	35.44	34.99	35.42	34.23
2700.0	0.27	0.46	0.61	0.28	0.45	0.63	2700.0	32.81	32.01	33.30	32.41	33.15	31.66	36.00	35.41	34.83	34.41	34.81	33.80
2800.0	0.28	0.46	0.61	0.28	0.46	0.63	2800.0	32.30	31.60	33.30	32.10	32.89	31.29	35.46	34.88	34.15	33.83	34.12	33.25
2900.0	0.28	0.47	0.61	0.29	0.47	0.64	2900.0	31.75	31.20	33.30	31.76	32.56	30.90	34.96	34.40	33.59	33.31	33.56	32.78
3000.0	0.28	0.47	0.62	0.29	0.47	0.64	3000.0	31.17	30.73	30.27	31.41	32.22	30.50	34.52	33.90	33.04	32.73	33.01	32.30

*Note:

State of:		RF Common to	
Control Voltage	Enable	RF1	RF2
HIGH	HIGH	ON	OFF
LOW	HIGH	OFF	ON
LOW/HIGH	LOW	Shutdown	

ON - Low insertion loss state
OFF - Isolation state



Typical Performance Data

RF FREQ (MHz)	VSWR (:1) @ VDD=+2.3V OVER TEMPERATURE (ON STATE, ENABLE-HIGH*)												RF FREQ (MHz)	VSWR (:1) @ VDD=+2.3V OVER TEMPERATURE (OFF STATE, ENABLE-HIGH*)					
	RF COM						RF1			RF2				RF1			RF2		
	Control HIGH*			Control LOW*			Control HIGH*			Control LOW*				Control LOW*			Control HIGH*		
	-45°C	+25°C	+85°C	-45°C	+25°C	+85°C	-45°C	+25°C	+85°C	-45°C	+25°C	+85°C		-45°C	+25°C	+85°C	-45°C	+25°C	+85°C
10.0	1.02	1.02	1.03	1.02	1.03	1.03	1.02	1.02	1.03	1.02	1.02	1.03	10.0	7.25	5.58	4.48	7.31	5.67	4.52
20.0	1.03	1.02	1.03	1.02	1.02	1.03	1.02	1.02	1.03	1.02	1.02	1.03	20.0	7.26	5.60	4.49	7.34	5.64	4.50
30.0	1.03	1.02	1.03	1.03	1.02	1.03	1.03	1.02	1.03	1.03	1.02	1.03	30.0	7.21	5.59	4.49	7.29	5.63	4.51
40.0	1.04	1.02	1.03	1.04	1.02	1.03	1.03	1.02	1.03	1.03	1.02	1.03	40.0	7.17	5.59	4.49	7.24	5.62	4.52
50.0	1.04	1.03	1.03	1.04	1.02	1.03	1.03	1.02	1.03	1.04	1.02	1.03	50.0	7.16	5.60	4.51	7.22	5.61	4.52
60.0	1.04	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	60.0	7.13	5.59	4.52	7.16	5.61	4.54
70.0	1.04	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	70.0	7.11	5.58	4.52	7.14	5.61	4.55
80.0	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	80.0	7.10	5.58	4.53	7.13	5.60	4.56
90.0	1.03	1.03	1.03	1.02	1.03	1.04	1.02	1.03	1.04	1.02	1.03	1.04	90.0	7.08	5.57	4.53	7.12	5.59	4.56
100.0	1.02	1.03	1.04	1.02	1.03	1.04	1.02	1.03	1.04	1.02	1.03	1.04	100.0	7.06	5.56	4.53	7.12	5.59	4.56
200.0	1.03	1.05	1.07	1.04	1.05	1.06	1.03	1.05	1.07	1.04	1.05	1.06	200.0	7.10	5.50	4.45	7.20	5.54	4.43
300.0	1.05	1.08	1.09	1.04	1.07	1.09	1.05	1.07	1.09	1.04	1.07	1.09	300.0	7.03	5.44	4.39	7.07	5.47	4.44
400.0	1.07	1.10	1.13	1.08	1.10	1.12	1.07	1.10	1.12	1.08	1.09	1.12	400.0	6.95	5.38	4.36	7.08	5.42	4.35
500.0	1.11	1.13	1.15	1.10	1.12	1.15	1.11	1.12	1.15	1.10	1.11	1.14	500.0	6.92	5.31	4.27	6.97	5.36	4.30
600.0	1.15	1.16	1.17	1.14	1.15	1.18	1.15	1.15	1.17	1.14	1.14	1.17	600.0	6.78	5.23	4.21	6.94	5.30	4.23
700.0	1.18	1.18	1.19	1.18	1.18	1.20	1.17	1.18	1.19	1.17	1.17	1.19	700.0	6.67	5.16	4.14	6.82	5.23	4.17
800.0	1.20	1.21	1.21	1.20	1.21	1.22	1.20	1.20	1.20	1.20	1.20	1.21	800.0	6.55	5.08	4.06	6.68	5.16	4.10
900.0	1.23	1.23	1.22	1.23	1.23	1.24	1.23	1.23	1.21	1.22	1.22	1.23	900.0	6.48	5.01	4.00	6.62	5.09	4.03
1000.0	1.24	1.25	1.23	1.25	1.26	1.25	1.24	1.25	1.23	1.24	1.24	1.24	1000.0	6.38	4.94	3.95	6.56	5.02	3.96
1100.0	1.26	1.27	1.24	1.29	1.28	1.26	1.26	1.27	1.24	1.27	1.26	1.25	1100.0	6.34	4.88	3.92	6.54	4.96	3.89
1200.0	1.28	1.29	1.25	1.32	1.31	1.27	1.28	1.28	1.24	1.31	1.29	1.26	1200.0	6.27	4.82	3.89	6.44	4.89	3.83
1300.0	1.29	1.30	1.26	1.35	1.32	1.28	1.29	1.29	1.24	1.33	1.30	1.27	1300.0	6.24	4.76	3.86	6.38	4.82	3.78
1400.0	1.32	1.31	1.27	1.38	1.34	1.28	1.31	1.30	1.25	1.37	1.32	1.27	1400.0	6.15	4.70	3.82	6.29	4.76	3.73
1500.0	1.31	1.31	1.27	1.38	1.34	1.28	1.31	1.31	1.26	1.37	1.32	1.27	1500.0	6.10	4.65	3.79	6.15	4.70	3.69
1600.0	1.31	1.31	1.28	1.39	1.34	1.28	1.31	1.31	1.26	1.38	1.32	1.27	1600.0	6.08	4.62	3.77	6.07	4.65	3.67
1700.0	1.29	1.31	1.29	1.37	1.33	1.28	1.29	1.30	1.27	1.36	1.32	1.27	1700.0	6.08	4.59	3.76	5.95	4.59	3.64
1800.0	1.28	1.30	1.29	1.35	1.32	1.27	1.28	1.29	1.27	1.35	1.31	1.27	1800.0	6.08	4.57	3.73	5.89	4.55	3.62
1900.0	1.26	1.28	1.29	1.33	1.31	1.27	1.25	1.28	1.28	1.32	1.29	1.26	1900.0	6.09	4.55	3.70	5.78	4.51	3.62
2000.0	1.24	1.26	1.28	1.30	1.28	1.27	1.23	1.26	1.27	1.28	1.27	1.25	2000.0	6.15	4.55	3.69	5.71	4.49	3.62
2100.0	1.21	1.24	1.28	1.27	1.26	1.26	1.20	1.23	1.27	1.24	1.24	1.25	2100.0	6.14	4.55	3.67	5.68	4.48	3.63
2200.0	1.18	1.21	1.27	1.24	1.22	1.25	1.17	1.21	1.26	1.20	1.21	1.24	2200.0	6.21	4.56	3.66	5.66	4.48	3.63
2300.0	1.16	1.19	1.25	1.20	1.19	1.24	1.15	1.18	1.24	1.15	1.21	1.22	2300.0	6.24	4.56	3.64	5.70	4.51	3.64
2400.0	1.13	1.16	1.22	1.17	1.15	1.23	1.12	1.15	1.22	1.09	1.21	1.21	2400.0	6.25	4.58	3.63	5.83	4.53	3.64
2500.0	1.12	1.13	1.19	1.15	1.12	1.20	1.10	1.13	1.19	1.06	1.21	1.19	2500.0	6.27	4.60	3.63	5.98	4.58	3.62
2600.0	1.09	1.10	1.16	1.13	1.09	1.17	1.07	1.10	1.16	1.06	1.21	1.17	2600.0	6.32	4.63	3.62	6.16	4.63	3.61
2700.0	1.07	1.07	1.12	1.12	1.06	1.15	1.06	1.08	1.13	1.09	1.21	1.14	2700.0	6.35	4.67	3.64	6.40	4.69	3.59
2800.0	1.06	1.05	1.09	1.12	1.04	1.11	1.04	1.06	1.10	1.11	1.21	1.11	2800.0	6.37	4.72	3.68	6.60	4.76	3.57
2900.0	1.05	1.03	1.05	1.10	1.03	1.09	1.04	1.04	1.07	1.11	1.21	1.08	2900.0	6.44	4.78	3.73	6.82	4.83	3.55
3000.0	1.05	1.02	1.02	1.09	1.04	1.07	1.04	1.02	1.04	1.11	1.05	1.05	3000.0	6.44	4.83	3.80	6.97	4.91	3.55

*Note:

State of:		RF Common to	
Control Voltage	Enable	RF1	RF2
HIGH	HIGH	ON	OFF
LOW	HIGH	OFF	ON
LOW/HIGH	LOW	Shutdown	

ON - Low insertion loss state
 OFF - Isolation state



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IF/RF MICROWAVE COMPONENTS

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Typical Performance Data

RF FREQ (MHz)	INSERTION LOSS (dB) @ VDD=+4.8V OVER TEMPERATURE (ENABLE-HIGH*)						RF FREQ (MHz)	ISOLATION (dB) @ VDD=+4.8V OVER TEMPERATURE (ENABLE-HIGH*)											
	RF COM-RF1			RF COM-RF2				RF COM-RF1			RF COM-RF2			RF1-RF2 Control LOW*			RF1-RF2 Control HIGH*		
	-45°C	+25°C	+85°C	-45°C	+25°C	+85°C		-45°C	+25°C	+85°C	-45°C	+25°C	+85°C	-45°C	+25°C	+85°C	-45°C	+25°C	+85°C
10.0	0.14	0.18	0.21	0.12	0.17	0.22	10.0	66.98	63.05	56.28	59.77	60.13	59.52	60.57	59.53	58.29	56.98	58.51	59.86
20.0	0.13	0.17	0.21	0.13	0.17	0.21	20.0	75.91	74.10	71.40	72.92	72.35	80.61	75.69	78.07	74.23	78.01	77.67	73.69
30.0	0.14	0.18	0.22	0.14	0.18	0.22	30.0	83.86	74.42	71.75	71.57	76.57	71.25	76.44	76.33	74.50	74.46	77.84	71.78
40.0	0.14	0.18	0.22	0.14	0.18	0.22	40.0	73.75	71.85	69.10	70.98	72.12	69.01	78.84	74.14	77.67	76.98	74.33	72.53
50.0	0.14	0.18	0.22	0.15	0.19	0.22	50.0	62.52	61.24	64.29	66.62	61.61	64.62	63.12	66.60	64.03	65.16	65.52	60.62
60.0	0.15	0.19	0.22	0.15	0.19	0.22	60.0	64.56	66.53	70.33	62.40	65.04	61.16	73.11	70.01	76.11	69.26	77.21	68.62
70.0	0.15	0.19	0.22	0.15	0.19	0.22	70.0	67.40	65.34	63.77	64.60	67.20	63.35	72.97	68.61	74.27	69.05	72.20	67.91
80.0	0.15	0.19	0.22	0.15	0.19	0.23	80.0	65.91	64.07	62.90	64.46	65.93	62.98	71.21	68.53	73.14	68.47	72.53	66.23
90.0	0.15	0.19	0.23	0.16	0.19	0.23	90.0	65.01	63.57	62.15	62.93	65.07	61.72	69.37	67.13	71.77	66.92	72.34	64.96
100.0	0.15	0.19	0.23	0.16	0.19	0.23	100.0	63.42	62.53	61.41	62.48	63.58	60.95	68.74	67.11	70.26	65.83	72.40	64.07
200.0	0.16	0.21	0.25	0.16	0.21	0.25	200.0	57.78	56.26	54.90	56.11	57.81	54.94	63.31	60.76	63.13	60.51	63.41	58.72
300.0	0.17	0.22	0.27	0.17	0.22	0.27	300.0	54.20	52.66	51.33	52.78	54.03	51.50	59.94	57.17	59.39	56.91	60.03	54.91
400.0	0.18	0.23	0.29	0.17	0.23	0.29	400.0	51.53	50.05	48.89	50.19	51.66	48.87	57.28	54.51	56.76	54.43	56.86	52.37
500.0	0.19	0.25	0.31	0.18	0.25	0.30	500.0	49.62	48.20	46.90	48.25	49.71	46.96	55.20	52.64	54.62	52.31	54.70	50.44
600.0	0.20	0.27	0.33	0.19	0.26	0.33	600.0	47.96	46.55	45.34	46.65	48.11	45.43	53.57	51.15	52.73	50.66	53.08	48.80
700.0	0.21	0.29	0.35	0.21	0.28	0.35	700.0	46.49	45.16	43.97	45.30	46.72	44.05	52.09	49.58	51.42	49.27	51.55	47.47
800.0	0.22	0.30	0.37	0.22	0.30	0.37	800.0	45.26	43.97	42.79	44.12	45.50	42.91	50.58	48.42	49.88	48.05	50.16	46.22
900.0	0.24	0.32	0.38	0.23	0.32	0.39	900.0	44.13	42.90	41.73	43.11	44.40	41.87	49.51	47.27	48.79	46.87	48.88	45.17
1000.0	0.25	0.34	0.40	0.24	0.34	0.41	1000.0	43.15	41.91	40.79	42.17	43.48	40.92	48.43	46.33	47.60	45.87	47.83	44.25
1100.0	0.27	0.36	0.43	0.27	0.36	0.43	1100.0	42.20	40.97	39.96	41.31	42.57	40.09	47.48	45.34	46.61	44.91	46.76	43.30
1200.0	0.28	0.38	0.44	0.29	0.38	0.45	1200.0	41.35	40.21	39.19	40.51	41.72	39.33	46.52	44.61	45.70	44.07	45.81	42.50
1300.0	0.30	0.40	0.46	0.31	0.41	0.46	1300.0	40.55	39.46	38.46	39.77	40.96	38.54	45.72	43.81	44.80	43.23	44.95	41.68
1400.0	0.32	0.42	0.47	0.34	0.43	0.48	1400.0	39.78	38.68	37.79	39.08	40.22	37.86	44.88	43.08	44.00	42.50	44.09	41.01
1500.0	0.32	0.43	0.49	0.36	0.45	0.50	1500.0	39.12	38.06	37.16	38.41	39.48	37.26	44.08	42.40	43.18	41.74	43.30	40.27
1600.0	0.33	0.44	0.51	0.37	0.46	0.52	1600.0	38.43	37.43	36.52	37.77	38.78	36.66	43.32	41.68	42.40	41.12	42.52	39.61
1700.0	0.33	0.46	0.52	0.36	0.47	0.54	1700.0	37.86	36.83	35.99	37.16	38.08	36.09	42.52	41.08	41.69	40.42	41.73	38.99
1800.0	0.33	0.46	0.54	0.36	0.48	0.55	1800.0	37.27	36.25	35.43	36.59	37.44	35.56	41.83	40.47	40.90	39.76	40.98	38.42
1900.0	0.32	0.47	0.57	0.36	0.48	0.57	1900.0	36.76	35.73	34.91	36.07	36.82	35.07	41.03	39.83	40.16	39.13	40.21	37.83
2000.0	0.31	0.47	0.58	0.34	0.48	0.58	2000.0	36.20	35.21	34.37	35.53	36.19	34.60	40.31	39.28	39.47	38.49	39.52	37.27
2100.0	0.31	0.47	0.59	0.32	0.48	0.59	2100.0	35.73	34.75	33.88	35.07	35.69	34.18	39.55	38.64	38.70	37.85	38.78	36.73
2200.0	0.29	0.46	0.60	0.31	0.47	0.61	2200.0	35.25	34.21	33.39	34.56	35.09	33.72	38.85	38.15	38.00	37.31	38.06	36.20
2300.0	0.29	0.46	0.61	0.29	0.46	0.61	2300.0	34.80	33.84	33.39	34.13	34.62	33.31	38.30	37.58	37.40	36.74	37.48	35.76
2400.0	0.28	0.46	0.61	0.28	0.46	0.62	2400.0	34.34	33.35	33.39	33.69	34.22	32.92	37.62	37.01	36.71	36.12	36.75	35.30
2500.0	0.27	0.45	0.61	0.27	0.45	0.63	2500.0	33.85	32.91	33.39	33.24	33.85	32.49	37.09	36.54	36.06	35.58	36.12	34.82
2600.0	0.27	0.45	0.61	0.27	0.45	0.63	2600.0	33.42	32.50	33.39	32.86	33.52	32.15	36.54	35.98	35.42	35.05	35.49	34.32
2700.0	0.27	0.45	0.61	0.28	0.45	0.63	2700.0	32.88	32.06	33.39	32.48	33.20	31.73	36.04	35.49	34.81	34.47	34.86	33.87
2800.0	0.28	0.46	0.61	0.28	0.46	0.63	2800.0	32.35	31.65	33.39	32.18	32.96	31.37	35.50	34.96	34.12	33.88	34.15	33.35
2900.0	0.28	0.46	0.61	0.28	0.47	0.63	2900.0	31.78	31.27	33.39	31.83	32.63	30.97	35.02	34.48	33.56	33.35	33.58	32.87
3000.0	0.28	0.47	0.62	0.28	0.47	0.64	3000.0	31.21	30.79	30.35	31.48	32.29	30.59	34.60	33.97	33.01	32.78	33.03	32.37

*Note:

State of:		RF Common to	
Control Voltage	Enable	RF1	RF2
HIGH	HIGH	ON	OFF
LOW	HIGH	OFF	ON
LOW/HIGH	LOW	Shutdown	

ON - Low insertion loss state
OFF - Isolation state



Typical Performance Data

RF FREQ (MHz)	VSWR (:1) @ VDD=+4.8V OVER TEMPERATURE (ON STATE, ENABLE-HIGH*)												RF FREQ (MHz)	VSWR (:1) @ VDD=+4.8V OVER TEMPERATURE (OFF STATE, ENABLE-HIGH*)					
	RF COM						RF1			RF2				RF1			RF2		
	Control HIGH*			Control LOW*			Control HIGH*			Control LOW*				Control LOW*			Control HIGH*		
	-45°C	+25°C	+85°C	-45°C	+25°C	+85°C	-45°C	+25°C	+85°C	-45°C	+25°C	+85°C		-45°C	+25°C	+85°C	-45°C	+25°C	+85°C
10.0	1.02	1.02	1.03	1.02	1.03	1.03	1.02	1.02	1.03	1.02	1.02	1.03	10.0	7.25	5.58	4.48	7.31	5.67	4.52
20.0	1.03	1.02	1.03	1.02	1.02	1.03	1.02	1.02	1.03	1.02	1.02	1.03	20.0	7.26	5.60	4.49	7.34	5.64	4.50
30.0	1.03	1.02	1.03	1.03	1.02	1.03	1.03	1.02	1.03	1.03	1.02	1.03	30.0	7.21	5.59	4.49	7.29	5.63	4.51
40.0	1.04	1.02	1.03	1.04	1.02	1.03	1.03	1.02	1.03	1.03	1.02	1.03	40.0	7.17	5.59	4.49	7.24	5.62	4.52
50.0	1.04	1.03	1.03	1.04	1.02	1.03	1.03	1.02	1.03	1.04	1.02	1.03	50.0	7.16	5.60	4.51	7.22	5.61	4.52
60.0	1.04	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	60.0	7.13	5.59	4.52	7.16	5.61	4.54
70.0	1.04	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	70.0	7.11	5.58	4.52	7.14	5.61	4.55
80.0	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	80.0	7.10	5.58	4.53	7.13	5.60	4.56
90.0	1.03	1.03	1.03	1.02	1.03	1.04	1.02	1.03	1.04	1.02	1.03	1.04	90.0	7.08	5.57	4.53	7.12	5.59	4.56
100.0	1.02	1.03	1.04	1.02	1.03	1.04	1.02	1.03	1.04	1.02	1.03	1.04	100.0	7.06	5.56	4.53	7.12	5.59	4.56
200.0	1.03	1.05	1.07	1.04	1.05	1.06	1.03	1.05	1.07	1.04	1.05	1.06	200.0	7.10	5.50	4.45	7.20	5.54	4.43
300.0	1.05	1.08	1.09	1.04	1.07	1.09	1.05	1.07	1.09	1.04	1.07	1.09	300.0	7.03	5.44	4.39	7.07	5.47	4.44
400.0	1.07	1.10	1.13	1.08	1.10	1.12	1.07	1.10	1.12	1.08	1.09	1.12	400.0	6.95	5.38	4.36	7.08	5.42	4.35
500.0	1.11	1.13	1.15	1.10	1.12	1.15	1.11	1.12	1.15	1.10	1.11	1.14	500.0	6.92	5.31	4.27	6.97	5.36	4.30
600.0	1.15	1.16	1.17	1.14	1.15	1.18	1.15	1.15	1.17	1.14	1.14	1.17	600.0	6.78	5.23	4.21	6.94	5.30	4.23
700.0	1.18	1.18	1.19	1.18	1.18	1.20	1.17	1.18	1.19	1.17	1.17	1.19	700.0	6.67	5.16	4.14	6.82	5.23	4.17
800.0	1.20	1.21	1.21	1.20	1.21	1.22	1.20	1.20	1.20	1.20	1.20	1.21	800.0	6.55	5.08	4.06	6.68	5.16	4.10
900.0	1.23	1.23	1.22	1.23	1.23	1.24	1.23	1.23	1.21	1.22	1.22	1.23	900.0	6.48	5.01	4.00	6.62	5.09	4.03
1000.0	1.24	1.25	1.23	1.25	1.26	1.25	1.24	1.25	1.23	1.24	1.24	1.24	1000.0	6.38	4.94	3.95	6.56	5.02	3.96
1100.0	1.26	1.27	1.24	1.29	1.28	1.26	1.26	1.27	1.24	1.27	1.26	1.25	1100.0	6.34	4.88	3.92	6.54	4.96	3.89
1200.0	1.28	1.29	1.25	1.32	1.31	1.27	1.28	1.28	1.24	1.31	1.29	1.26	1200.0	6.27	4.82	3.89	6.44	4.89	3.83
1300.0	1.29	1.30	1.26	1.35	1.32	1.28	1.29	1.29	1.24	1.33	1.30	1.27	1300.0	6.24	4.76	3.86	6.38	4.82	3.78
1400.0	1.32	1.31	1.27	1.38	1.34	1.28	1.31	1.30	1.25	1.37	1.32	1.27	1400.0	6.15	4.70	3.82	6.29	4.76	3.73
1500.0	1.31	1.31	1.27	1.38	1.34	1.28	1.31	1.31	1.26	1.37	1.32	1.27	1500.0	6.10	4.65	3.79	6.15	4.70	3.69
1600.0	1.31	1.31	1.28	1.39	1.34	1.28	1.31	1.31	1.26	1.38	1.32	1.27	1600.0	6.08	4.62	3.77	6.07	4.65	3.67
1700.0	1.29	1.31	1.29	1.37	1.33	1.28	1.29	1.30	1.27	1.36	1.32	1.27	1700.0	6.08	4.59	3.76	5.95	4.59	3.64
1800.0	1.28	1.30	1.29	1.35	1.32	1.27	1.28	1.29	1.27	1.35	1.31	1.27	1800.0	6.08	4.57	3.73	5.89	4.55	3.62
1900.0	1.26	1.28	1.29	1.33	1.31	1.27	1.25	1.28	1.28	1.32	1.29	1.26	1900.0	6.09	4.55	3.70	5.78	4.51	3.62
2000.0	1.24	1.26	1.28	1.30	1.28	1.27	1.23	1.26	1.27	1.28	1.27	1.25	2000.0	6.15	4.55	3.69	5.71	4.49	3.62
2100.0	1.21	1.24	1.28	1.27	1.26	1.26	1.20	1.23	1.27	1.24	1.24	1.25	2100.0	6.14	4.55	3.67	5.68	4.48	3.63
2200.0	1.18	1.21	1.27	1.24	1.22	1.25	1.17	1.21	1.26	1.20	1.21	1.24	2200.0	6.21	4.56	3.66	5.66	4.48	3.63
2300.0	1.16	1.19	1.25	1.20	1.19	1.24	1.15	1.18	1.24	1.15	1.21	1.22	2300.0	6.24	4.56	3.64	5.70	4.51	3.64
2400.0	1.13	1.16	1.22	1.17	1.15	1.23	1.12	1.15	1.22	1.09	1.21	1.21	2400.0	6.25	4.58	3.63	5.83	4.53	3.64
2500.0	1.12	1.13	1.19	1.15	1.12	1.20	1.10	1.13	1.19	1.06	1.21	1.19	2500.0	6.27	4.60	3.63	5.98	4.58	3.62
2600.0	1.09	1.10	1.16	1.13	1.09	1.17	1.07	1.10	1.16	1.06	1.21	1.17	2600.0	6.32	4.63	3.62	6.16	4.63	3.61
2700.0	1.07	1.07	1.12	1.12	1.06	1.15	1.06	1.08	1.13	1.09	1.21	1.14	2700.0	6.35	4.67	3.64	6.40	4.69	3.59
2800.0	1.06	1.05	1.09	1.12	1.04	1.11	1.04	1.06	1.10	1.11	1.21	1.11	2800.0	6.37	4.72	3.68	6.60	4.76	3.57
2900.0	1.05	1.03	1.05	1.10	1.03	1.09	1.04	1.04	1.07	1.11	1.21	1.08	2900.0	6.44	4.78	3.73	6.82	4.83	3.55
3000.0	1.05	1.02	1.02	1.09	1.04	1.07	1.04	1.03	1.04	1.11	1.05	1.05	3000.0	6.50	4.91	3.88	7.09	5.00	3.62

*Note:

State of:		RF Common to	
Control Voltage	Enable	RF1	RF2
HIGH	HIGH	ON	OFF
LOW	HIGH	OFF	ON
LOW/HIGH	LOW	Shutdown	

ON - Low insertion loss state
 OFF - Isolation state



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