

Typical Performance Data

RF FREQ (MHz)	INSERTION LOSS (dB)				RF FREQ (MHz)	ISOLATION (dB)							
	VDD=-5V		VDD=-8V			VDD=-5V		VDD=-8V		VDD=-5V		VDD=-8V	
	RF IN-RF1	RF IN-RF2	RF IN-RF1	RF IN-RF2		RF IN-RF1	RF IN-RF2	RF IN-RF1	RF IN-RF2	RF1-RF2 RF1 (ON)	RF1-RF2 RF1 (OFF)	RF1-RF2 RF1 (ON)	RF1-RF2 RF1 (OFF)
0.3	0.43	0.43	0.43	0.43	0.3	113.66	98.49	95.70	91.27	89.12	92.72	85.97	92.43
2	0.43	0.43	0.42	0.42	2	92.82	93.14	97.98	105.31	96.14	95.72	94.83	92.81
5	0.44	0.44	0.43	0.43	5	93.74	91.30	91.78	95.55	92.00	92.64	86.27	93.53
10	0.46	0.46	0.45	0.45	10	90.94	90.03	89.93	90.04	92.58	92.27	93.48	91.66
50	0.52	0.52	0.49	0.49	50	76.03	75.22	76.13	75.68	79.14	77.87	78.71	78.10
100	0.53	0.54	0.51	0.51	100	69.35	69.97	69.41	69.89	72.90	73.33	72.68	73.18
200	0.56	0.56	0.53	0.54	200	63.87	64.02	63.88	64.07	66.73	66.79	66.60	66.76
300	0.57	0.58	0.54	0.55	300	60.12	60.18	60.08	60.14	63.87	63.76	63.84	63.77
400	0.60	0.60	0.57	0.58	400	58.03	57.99	57.99	57.97	60.92	60.78	60.90	60.79
500	0.62	0.62	0.59	0.60	500	56.06	56.07	56.03	56.04	58.97	58.82	58.97	58.83
600	0.63	0.63	0.61	0.62	600	54.41	54.40	54.40	54.38	57.50	57.27	57.47	57.22
700	0.66	0.66	0.64	0.64	700	53.14	53.12	53.11	53.12	55.91	55.72	55.94	55.75
800	0.68	0.68	0.67	0.66	800	51.99	51.96	51.94	51.96	54.57	54.42	54.59	54.43
900	0.70	0.70	0.69	0.69	900	50.92	50.92	50.89	50.89	53.39	53.24	53.43	53.28
1000	0.73	0.73	0.71	0.71	1000	49.97	49.99	49.96	49.96	52.28	52.14	52.33	52.20
1100	0.75	0.75	0.74	0.74	1100	49.15	49.18	49.12	49.15	51.18	51.09	51.26	51.15
1200	0.78	0.77	0.76	0.76	1200	48.36	48.39	48.32	48.36	50.20	50.11	50.31	50.18
1300	0.80	0.80	0.78	0.78	1300	47.63	47.65	47.57	47.61	49.29	49.18	49.39	49.29
1400	0.82	0.81	0.80	0.80	1400	46.94	47.02	46.90	46.97	48.34	48.29	48.45	48.40
1500	0.84	0.83	0.82	0.81	1500	46.30	46.38	46.26	46.33	47.48	47.43	47.61	47.55
1600	0.86	0.84	0.84	0.82	1600	45.69	45.79	45.66	45.74	46.63	46.57	46.79	46.70
1700	0.88	0.86	0.86	0.84	1700	45.11	45.19	45.05	45.12	45.87	45.77	46.04	45.93
1800	0.89	0.87	0.87	0.85	1800	44.58	44.68	44.47	44.61	45.06	44.95	45.25	45.19
1900	0.91	0.88	0.89	0.86	1900	44.06	44.15	44.00	44.08	44.31	44.19	44.51	44.40
2000	0.92	0.89	0.90	0.87	2000	43.55	43.62	43.50	43.56	43.63	43.47	43.86	43.69
2100	0.93	0.90	0.91	0.88	2100	43.10	43.15	43.05	43.08	42.95	42.73	43.20	42.96
2200	0.94	0.90	0.92	0.88	2200	42.71	42.80	42.64	42.74	42.21	41.99	42.48	42.24
2300	0.95	0.91	0.92	0.88	2300	42.29	42.41	42.22	42.36	41.51	41.29	41.79	41.58
2400	0.96	0.91	0.93	0.89	2400	41.88	42.01	41.82	41.96	40.86	40.64	41.16	40.93
2500	0.96	0.92	0.93	0.90	2500	41.49	41.63	41.44	41.60	40.22	39.98	40.55	40.29
2600	0.97	0.93	0.94	0.91	2600	41.15	41.30	41.11	41.27	39.56	39.31	39.90	39.66
2700	0.97	0.94	0.94	0.91	2700	40.77	40.89	40.74	40.88	38.97	38.73	39.34	39.10
2800	0.97	0.94	0.95	0.92	2800	40.44	40.49	40.43	40.51	38.38	38.12	38.78	38.51
2900	0.97	0.95	0.95	0.93	2900	40.09	40.11	40.11	40.14	37.81	37.55	38.23	37.96
3000	0.98	0.96	0.95	0.93	3000	39.72	39.70	39.78	39.76	37.21	36.96	37.66	37.39
3100	0.98	0.96	0.96	0.94	3100	39.32	39.29	39.39	39.39	36.60	36.39	37.07	36.85
3200	0.99	0.97	0.96	0.94	3200	38.93	38.90	39.03	39.04	35.99	35.85	36.49	36.36
3300	0.99	0.98	0.97	0.95	3300	38.46	38.34	38.61	38.51	35.45	35.31	35.98	35.83
3400	1.00	0.99	0.97	0.96	3400	38.03	37.82	38.21	38.03	34.87	34.75	35.44	35.30
3500	1.01	0.99	0.98	0.97	3500	37.53	37.33	37.77	37.59	34.33	34.20	34.92	34.78
3600	1.02	1.00	0.99	0.98	3600	37.02	36.79	37.31	37.11	33.78	33.66	34.40	34.26
3700	1.03	1.01	1.00	0.98	3700	36.48	36.20	36.81	36.58	33.23	33.11	33.89	33.76
3800	1.04	1.02	1.01	0.99	3800	35.88	35.62	36.30	36.05	32.60	32.53	33.30	33.21
3900	1.05	1.04	1.02	1.01	3900	35.23	35.02	35.69	35.49	32.02	31.95	32.74	32.67
4000	1.07	1.05	1.04	1.02	4000	34.59	34.45	35.11	34.98	31.42	31.34	32.17	32.09
4100	1.09	1.07	1.05	1.04	4100	33.92	33.78	34.50	34.37	30.76	30.69	31.54	31.46
4200	1.11	1.09	1.07	1.05	4200	33.29	33.10	33.93	33.75	30.08	30.03	30.89	30.84
4300	1.14	1.12	1.10	1.07	4300	32.68	32.44	33.37	33.14	29.39	29.37	30.24	30.21
4400	1.17	1.16	1.12	1.10	4400	32.03	31.79	32.77	32.54	28.70	28.68	29.58	29.55
4500	1.21	1.19	1.15	1.13	4500	31.28	31.08	32.08	31.85	28.02	27.99	28.92	28.88
4600	1.26	1.24	1.19	1.17	4600	30.60	30.34	31.43	31.15	27.27	27.26	28.19	28.17
4700	1.32	1.31	1.24	1.23	4700	29.98	29.60	30.85	30.45	26.46	26.51	27.39	27.44
4800	1.39	1.40	1.31	1.30	4800	29.30	28.87	30.21	29.75	25.66	25.76	26.61	26.70
4900	1.48	1.48	1.38	1.37	4900	28.66	28.17	29.59	29.08	24.88	25.02	25.84	25.97
5000	1.58	1.59	1.47	1.46	5000	28.04	27.45	28.99	28.39	24.09	24.26	25.07	25.23
5500	2.34	2.64	2.14	2.42	5500	25.53	23.88	26.61	24.91	20.02	20.86	21.02	21.86
6000	3.38	3.46	3.10	3.19	6000	22.30	20.66	23.39	21.67	16.40	17.06	17.38	18.10

Note:

Control Voltage #1	Control Voltage #2	RF IN	
		RF1	RF2
0	-5/-8	OFF	ON
-5/-8	0	ON	OFF

ON - Low insertion loss state
OFF - Reflective state



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The Design Engineers Search Engine Provides ACTUAL Data Instantly From MINI-CIRCUITS At: www.minicircuits.com

IF/RF MICROWAVE COMPONENTS

Typical Performance Data

RF FREQ (MHz)	VSWR (:1)											
	VDD=-5V						VDD=-8V					
	RF IN		RF1		RF2		RF IN		RF1		RF2	
	RF1 (ON)	RF2 (ON)	RF1 (ON)	RF1 (OFF)	RF2 (ON)	RF2 (OFF)	RF1 (ON)	RF2 (ON)	RF1 (ON)	RF1 (OFF)	RF2 (ON)	RF2 (OFF)
0.3	1.10	1.10	1.09	7.20	1.09	7.22	1.10	1.10	1.09	7.22	1.09	7.22
2	1.09	1.10	1.09	7.21	1.09	7.24	1.09	1.09	1.09	7.24	1.09	7.23
5	1.09	1.09	1.09	7.20	1.09	7.23	1.09	1.09	1.08	7.23	1.08	7.23
10	1.09	1.09	1.08	7.19	1.08	7.22	1.08	1.08	1.08	7.22	1.08	7.22
50	1.08	1.08	1.07	7.15	1.07	7.15	1.07	1.07	1.07	7.18	1.07	7.15
100	1.08	1.08	1.07	7.10	1.07	7.08	1.08	1.07	1.07	7.13	1.07	7.08
200	1.10	1.10	1.09	6.99	1.09	6.96	1.09	1.09	1.09	7.01	1.08	6.96
300	1.12	1.12	1.11	6.88	1.11	6.87	1.11	1.11	1.11	6.90	1.10	6.87
400	1.14	1.14	1.13	6.80	1.13	6.81	1.13	1.13	1.13	6.83	1.13	6.81
500	1.17	1.17	1.16	6.72	1.16	6.74	1.16	1.16	1.15	6.74	1.15	6.74
600	1.19	1.19	1.18	6.64	1.18	6.68	1.19	1.19	1.18	6.66	1.17	6.68
700	1.22	1.22	1.21	6.55	1.20	6.59	1.21	1.21	1.20	6.58	1.19	6.59
800	1.25	1.25	1.23	6.47	1.23	6.50	1.24	1.24	1.23	6.49	1.22	6.50
900	1.28	1.27	1.26	6.38	1.26	6.40	1.27	1.26	1.25	6.41	1.25	6.41
1000	1.30	1.30	1.28	6.30	1.28	6.30	1.29	1.28	1.27	6.33	1.27	6.31
1100	1.32	1.32	1.30	6.21	1.30	6.20	1.31	1.30	1.29	6.24	1.29	6.21
1200	1.35	1.34	1.32	6.12	1.32	6.09	1.33	1.32	1.31	6.15	1.31	6.10
1300	1.36	1.35	1.34	6.03	1.33	6.00	1.35	1.34	1.32	6.06	1.32	6.01
1400	1.38	1.36	1.35	5.93	1.34	5.91	1.36	1.34	1.34	5.97	1.33	5.92
1500	1.39	1.36	1.36	5.84	1.34	5.82	1.37	1.35	1.34	5.87	1.33	5.83
1600	1.40	1.36	1.37	5.74	1.34	5.70	1.38	1.34	1.35	5.78	1.33	5.72
1700	1.40	1.36	1.37	5.66	1.34	5.58	1.39	1.34	1.35	5.70	1.32	5.61
1800	1.41	1.36	1.37	5.58	1.34	5.51	1.39	1.34	1.35	5.61	1.32	5.54
1900	1.41	1.36	1.37	5.50	1.33	5.48	1.39	1.34	1.35	5.54	1.31	5.50
2000	1.40	1.35	1.37	5.42	1.32	5.47	1.38	1.33	1.35	5.46	1.30	5.49
2100	1.40	1.34	1.36	5.35	1.30	5.46	1.37	1.32	1.34	5.39	1.28	5.48
2200	1.39	1.33	1.35	5.29	1.28	5.45	1.36	1.31	1.33	5.33	1.26	5.48
2300	1.37	1.32	1.34	5.23	1.26	5.46	1.35	1.29	1.32	5.27	1.24	5.50
2400	1.36	1.31	1.32	5.18	1.24	5.44	1.33	1.28	1.30	5.23	1.22	5.48
2500	1.34	1.30	1.31	5.13	1.22	5.43	1.32	1.27	1.29	5.18	1.20	5.47
2600	1.32	1.29	1.29	5.10	1.21	5.42	1.30	1.26	1.26	5.15	1.19	5.46
2700	1.30	1.28	1.27	5.08	1.20	5.41	1.28	1.25	1.24	5.14	1.18	5.45
2800	1.28	1.27	1.24	5.07	1.18	5.44	1.25	1.24	1.22	5.13	1.16	5.49
2900	1.26	1.26	1.22	5.08	1.16	5.50	1.23	1.23	1.20	5.14	1.14	5.55
3000	1.24	1.25	1.20	5.09	1.15	5.54	1.21	1.22	1.18	5.16	1.12	5.60
3100	1.21	1.23	1.18	5.12	1.13	5.58	1.19	1.20	1.16	5.19	1.10	5.64
3200	1.19	1.21	1.17	5.16	1.12	5.57	1.17	1.18	1.15	5.23	1.09	5.63
3300	1.18	1.20	1.15	5.21	1.11	5.56	1.15	1.17	1.13	5.29	1.09	5.63
3400	1.17	1.19	1.14	5.27	1.11	5.56	1.13	1.16	1.12	5.35	1.08	5.64
3500	1.15	1.18	1.13	5.33	1.10	5.59	1.12	1.15	1.11	5.42	1.07	5.66
3600	1.15	1.17	1.12	5.41	1.09	5.63	1.11	1.14	1.10	5.50	1.07	5.72
3700	1.14	1.16	1.11	5.48	1.08	5.73	1.11	1.13	1.09	5.58	1.06	5.82
3800	1.14	1.15	1.10	5.55	1.07	5.87	1.10	1.12	1.09	5.66	1.04	5.97
3900	1.15	1.16	1.10	5.63	1.06	6.00	1.11	1.12	1.08	5.74	1.03	6.12
4000	1.16	1.16	1.10	5.69	1.06	6.08	1.11	1.12	1.08	5.82	1.03	6.20
4100	1.17	1.17	1.10	5.76	1.07	6.11	1.12	1.13	1.08	5.90	1.03	6.25
4200	1.19	1.20	1.11	5.82	1.10	6.14	1.14	1.15	1.08	5.97	1.06	6.29
4300	1.23	1.24	1.13	5.87	1.13	6.29	1.17	1.18	1.09	6.03	1.09	6.46
4400	1.26	1.29	1.15	5.90	1.18	6.40	1.20	1.23	1.11	6.07	1.13	6.58
4500	1.31	1.34	1.19	5.92	1.24	6.46	1.25	1.27	1.14	6.11	1.18	6.66
4600	1.37	1.40	1.24	5.92	1.31	6.45	1.30	1.33	1.19	6.12	1.25	6.67
4700	1.44	1.49	1.29	5.88	1.41	6.47	1.36	1.41	1.23	6.10	1.34	6.72
4800	1.52	1.59	1.36	5.84	1.50	6.45	1.44	1.50	1.29	6.07	1.43	6.72
4900	1.62	1.70	1.43	5.76	1.60	6.28	1.52	1.60	1.37	6.01	1.52	6.56
5000	1.72	1.82	1.51	5.66	1.71	6.00	1.62	1.71	1.44	5.92	1.62	6.29
5500	2.46	2.77	2.05	4.75	2.42	4.30	2.30	2.59	1.94	5.09	2.30	4.62
6000	3.50	3.62	2.69	3.37	2.86	2.80	3.27	3.38	2.59	3.73	2.77	3.09

Note:

Control Voltage #1	Control Voltage #2	RF IN	
		RF1	RF2
0	-5/-8	OFF	ON
-5/-8	0	ON	OFF

ON - Low insertion loss state
OFF - Reflective state



Typical Performance Data

RF FREQ (MHz)	INPUT IP3 (dBm)				RF FREQ (MHz)	Pin @ 0.1 dB COMPRESSION (dBm)			
	VDD=-5V		VDD=-8V			VDD=-5V		VDD=-8V	
	RF IN-RF1	RF IN-RF2	RF IN-RF1	RF IN-RF2		RF IN-RF1	RF IN-RF2	RF IN-RF1	RF IN-RF2
10	33.43	34.03	33.43	34.05	10	13.92	15.64	15.18	15.33
50	51.37	53.61	50.97	53.07	50	20.75	20.13	24.65	22.62
100	61.87	60.96	62.41	62.31	100	21.49	21.48	27.62	27.74
200	58.57	59.09	64.54	61.38	200	22.78	22.92	28.64	28.65
300	58.08	59.03	60.08	61.93	300	23.23	23.53	28.63	28.64
400	58.43	59.87	63.96	67.61	400	23.53	23.67	28.92	28.93
500	55.20	56.08	57.78	59.42	500	23.58	23.73	28.57	28.58
600	56.32	56.25	65.19	63.68	600	23.65	23.64	28.85	28.86
700	55.51	56.09	58.96	60.41	700	23.64	23.82	30.08	30.06
800	54.40	54.48	58.82	59.14	800	23.69	23.86	29.79	29.78
900	56.86	56.87	62.34	62.07	900	23.69	23.87	29.97	29.97
1000	53.75	53.88	57.17	58.14	1000	24.02	24.20	29.88	29.87
1100	54.94	55.01	63.27	61.15	1100	24.01	24.20	29.90	29.88
1200	54.58	54.99	56.84	57.69	1200	23.87	24.04	29.93	29.93
1300	52.93	53.19	58.18	58.77	1300	24.05	24.25	30.02	30.00
1400	55.44	55.86	60.62	60.65	1400	23.84	24.04	29.88	29.89
1500	53.21	53.36	59.39	60.37	1500	24.15	24.31	29.49	29.49
1600	54.40	54.58	60.42	60.04	1600	23.92	24.12	29.76	29.75
1700	52.99	53.26	57.57	58.97	1700	24.23	24.42	29.62	29.62
1800	52.25	52.38	58.00	58.31	1800	24.02	24.22	29.77	29.76
1900	53.68	53.73	64.47	66.31	1900	24.26	24.43	29.43	29.44
2000	51.55	51.67	57.15	57.79	2000	23.91	24.11	29.77	29.76
2100	53.12	53.09	60.64	59.97	2100	24.32	24.40	29.74	29.73
2200	52.32	52.51	57.76	58.98	2200	24.30	24.50	29.52	29.53
2300	51.39	51.54	58.69	58.50	2300	24.16	24.37	29.53	29.53
2400	51.38	51.59	60.22	62.15	2400	24.29	24.47	29.51	29.51
2500	50.94	51.02	57.43	58.04	2500	24.14	24.23	29.57	29.56
2600	52.36	52.43	64.90	63.42	2600	24.13	24.21	29.38	29.39
2700	50.60	50.75	57.13	58.25	2700	24.32	24.23	29.26	29.26
2800	50.48	50.32	59.89	59.14	2800	24.29	24.33	29.54	29.55
2900	49.87	49.85	55.78	56.41	2900	24.30	24.38	29.38	29.37
3000	50.93	50.71	57.74	57.01	3000	24.26	24.33	29.46	29.47
3100	50.48	50.41	59.93	60.45	3100	24.30	24.23	29.28	29.26
3200	49.48	49.21	56.13	56.64	3200	24.39	24.48	29.41	29.42
3300	50.21	49.95	58.41	59.44	3300	24.17	24.26	29.36	29.35
3400	49.63	49.50	56.15	56.83	3400	24.29	24.37	29.24	29.25
3500	49.01	48.73	56.38	55.59	3500	24.37	24.38	29.21	29.19
3600	49.08	48.83	57.66	58.29	3600	24.02	24.10	29.18	29.21
3700	48.66	48.28	56.90	56.46	3700	24.07	23.96	29.21	29.19
3800	48.91	48.58	58.54	58.96	3800	23.86	23.92	29.13	29.13
3900	48.02	47.64	55.93	55.91	3900	23.77	23.67	29.12	29.11
4000	47.85	47.52	56.86	57.12	4000	23.59	23.65	29.13	29.13
4100	47.23	46.83	54.81	55.03	4100	23.36	23.39	29.11	29.12
4200	47.38	47.09	56.65	56.38	4200	23.34	23.32	28.97	28.93
4300	47.25	47.15	58.60	60.50	4300	23.08	23.11	29.05	29.06
4400	45.82	45.54	52.70	52.23	4400	23.05	23.08	29.05	29.02
4500	47.02	46.95	59.37	60.44	4500	23.08	23.11	28.92	29.18
4600	45.46	45.26	52.88	52.64	4600	22.74	22.87	28.75	29.00
4700	45.44	45.44	55.65	57.29	4700	22.79	22.79	28.75	28.99
4800	44.87	44.86	51.13	51.01	4800	22.62	22.79	28.54	28.79
4900	45.16	45.19	55.14	55.37	4900	22.75	22.90	28.59	28.96
5000	43.95	44.04	50.69	50.90	5000	22.62	22.92	28.57	28.81

Note:

Control Voltage #1	Control Voltage #2	RF IN	
		RF1	RF2
0	-5/-8	OFF	ON
-5/-8	0	ON	OFF

ON - Low insertion loss state
OFF - Reflective state

