

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	91.21	94.60	92.73	98.26	88.45	102.44	95.19	99.30
2	0.43	0.42	0.42	0.42	2	95.81	97.45	94.41	90.58	102.70	97.15	96.84	89.98
5	0.44	0.44	0.43	0.43	5	91.71	100.20	84.69	89.62	96.59	91.53	99.51	90.70
10	0.46	0.46	0.45	0.45	10	89.59	90.74	89.34	91.59	91.59	100.73	92.07	111.37
50	0.52	0.51	0.49	0.49	50	78.48	76.43	77.78	76.98	105.12	79.45	101.80	79.07
100	0.54	0.54	0.51	0.51	100	68.72	74.43	68.82	74.26	79.83	81.67	79.46	81.61
200	0.57	0.57	0.54	0.54	200	66.14	68.24	66.36	68.15	73.91	80.19	73.66	79.57
300	0.58	0.59	0.56	0.56	300	61.71	59.49	61.61	59.52	68.78	78.00	68.87	77.73
400	0.61	0.61	0.59	0.58	400	61.26	61.00	61.19	61.01	74.16	71.35	74.01	71.75
500	0.63	0.63	0.61	0.61	500	58.99	59.26	59.00	59.21	71.40	70.48	71.38	70.20
600	0.65	0.65	0.63	0.63	600	57.01	57.28	56.93	57.24	70.51	71.10	70.54	71.28
700	0.68	0.67	0.66	0.65	700	56.06	55.97	56.05	55.95	69.11	67.55	69.36	67.88
800	0.71	0.70	0.69	0.68	800	55.15	55.19	55.12	55.16	66.61	65.51	66.95	65.76
900	0.73	0.72	0.71	0.70	900	54.18	54.23	54.14	54.14	65.59	64.39	65.80	64.42
1000	0.76	0.75	0.74	0.73	1000	53.09	53.08	53.13	52.97	64.18	63.27	64.64	63.26
1100	0.79	0.78	0.77	0.76	1100	52.69	52.75	52.53	52.64	61.56	60.87	62.03	61.46
1200	0.82	0.80	0.80	0.78	1200	52.13	52.19	51.96	52.07	60.40	59.56	60.77	60.07
1300	0.84	0.83	0.82	0.81	1300	51.49	51.25	51.28	51.11	59.52	58.37	60.08	58.93
1400	0.87	0.85	0.85	0.83	1400	51.03	51.13	50.90	50.95	57.44	57.22	57.99	57.56
1500	0.89	0.86	0.87	0.84	1500	50.50	50.75	50.28	50.56	56.18	56.03	56.79	56.63
1600	0.91	0.88	0.89	0.86	1600	50.36	50.41	50.02	50.16	55.06	54.42	55.63	55.07
1700	0.93	0.90	0.91	0.88	1700	49.87	49.67	49.44	49.38	54.50	53.49	55.14	54.12
1800	0.95	0.92	0.93	0.89	1800	49.75	49.74	49.35	49.44	52.63	52.44	53.22	53.12
1900	0.97	0.93	0.94	0.91	1900	49.70	49.82	49.39	49.47	51.46	51.31	52.07	51.75
2000	0.98	0.94	0.96	0.92	2000	49.78	49.73	49.27	49.32	50.47	50.12	51.10	50.74
2100	1.00	0.96	0.97	0.93	2100	49.90	49.44	49.42	48.98	49.56	48.91	50.21	49.49
2200	1.01	0.97	0.98	0.94	2200	50.16	49.83	49.66	49.29	48.11	47.70	48.73	48.23
2300	1.02	0.98	0.99	0.95	2300	50.55	50.07	49.90	49.44	47.04	46.60	47.68	47.20
2400	1.03	0.99	1.00	0.96	2400	50.63	50.11	49.90	49.44	46.12	45.77	46.77	46.36
2500	1.03	1.00	1.00	0.97	2500	50.94	50.36	50.14	49.61	45.16	44.83	45.82	45.44
2600	1.04	1.01	1.01	0.98	2600	51.48	50.84	50.43	49.96	44.16	43.85	44.81	44.53
2700	1.04	1.02	1.01	0.99	2700	51.70	51.13	50.56	50.17	43.29	43.09	43.95	43.81
2800	1.04	1.03	1.01	1.00	2800	52.02	51.20	50.95	50.25	42.50	42.30	43.17	42.96
2900	1.04	1.04	1.01	1.01	2900	52.18	51.40	51.18	50.43	41.71	41.48	42.40	42.15
3000	1.05	1.05	1.02	1.02	3000	52.43	51.54	51.49	50.73	40.83	40.68	41.53	41.39
3100	1.05	1.05	1.02	1.02	3100	51.93	51.23	51.47	50.68	40.06	40.00	40.77	40.69
3200	1.06	1.06	1.03	1.03	3200	50.66	50.75	50.65	50.40	39.39	39.53	40.11	40.25
3300	1.06	1.06	1.03	1.03	3300	49.87	49.71	50.20	49.83	38.71	38.62	39.45	39.32
3400	1.07	1.07	1.04	1.04	3400	48.22	48.43	48.78	48.92	38.00	37.92	38.75	38.68
3500	1.07	1.08	1.04	1.05	3500	46.89	47.06	47.77	47.89	37.30	37.21	38.07	38.00
3600	1.08	1.09	1.05	1.05	3600	45.49	45.55	46.64	46.55	36.65	36.46	37.45	37.26
3700	1.09	1.09	1.06	1.06	3700	44.08	44.13	45.28	45.26	35.97	35.74	36.79	36.56
3800	1.11	1.10	1.08	1.07	3800	42.61	42.75	43.91	43.99	35.22	35.00	36.04	35.82
3900	1.12	1.12	1.09	1.08	3900	41.25	41.29	42.56	42.54	34.47	34.30	35.30	35.14
4000	1.13	1.13	1.10	1.09	4000	39.95	40.06	41.29	41.34	33.77	33.60	34.64	34.46
4100	1.15	1.15	1.12	1.11	4100	38.72	38.87	40.08	40.17	32.99	32.87	33.86	33.75
4200	1.17	1.16	1.13	1.12	4200	37.59	37.63	38.93	38.94	32.24	32.23	33.12	33.14
4300	1.19	1.18	1.15	1.14	4300	36.40	36.53	37.71	37.81	31.53	31.52	32.43	32.46
4400	1.21	1.21	1.17	1.16	4400	35.26	35.45	36.55	36.73	30.77	30.77	31.69	31.71
4500	1.24	1.24	1.19	1.18	4500	34.08	34.33	35.36	35.57	29.99	29.99	30.91	30.93
4600	1.27	1.28	1.22	1.21	4600	33.10	33.33	34.36	34.56	29.25	29.23	30.18	30.18
4700	1.32	1.33	1.25	1.26	4700	32.20	32.44	33.45	33.67	28.51	28.47	29.45	29.42
4800	1.36	1.40	1.29	1.32	4800	31.32	31.49	32.55	32.71	27.74	27.74	28.69	28.70
4900	1.42	1.48	1.34	1.39	4900	30.52	30.66	31.75	31.86	27.06	27.05	28.01	28.01
5000	1.49	1.59	1.40	1.48	5000	29.79	29.87	31.00	31.05	26.38	26.36	27.33	27.33
5500	2.02	2.19	1.86	2.01	5500	26.72	26.32	27.86	27.41	23.05	23.07	23.99	24.03
6000	2.85	2.90	2.61	2.66	6000	23.98	23.52	25.03	24.52	20.20	20.02	21.09	20.94

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 - Absorptive 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	1.11	1.09	1.11	1.10	1.10	1.09	1.11	1.09	1.11
2	1.09	1.10	1.09	1.11	1.09	1.11	1.09	1.09	1.09	1.11	1.08	1.11
5	1.09	1.09	1.09	1.11	1.09	1.11	1.09	1.09	1.08	1.11	1.08	1.11
10	1.09	1.09	1.08	1.11	1.08	1.11	1.08	1.08	1.08	1.11	1.08	1.11
50	1.08	1.08	1.08	1.10	1.07	1.10	1.07	1.07	1.07	1.10	1.07	1.10
100	1.08	1.08	1.08	1.10	1.07	1.10	1.08	1.07	1.07	1.10	1.07	1.10
200	1.10	1.10	1.09	1.11	1.09	1.10	1.09	1.09	1.09	1.11	1.09	1.10
300	1.12	1.12	1.12	1.11	1.11	1.11	1.12	1.11	1.11	1.11	1.10	1.11
400	1.15	1.14	1.14	1.12	1.13	1.11	1.14	1.14	1.14	1.12	1.12	1.11
500	1.18	1.17	1.17	1.13	1.15	1.12	1.17	1.16	1.16	1.13	1.15	1.12
600	1.21	1.20	1.19	1.14	1.17	1.12	1.20	1.19	1.19	1.14	1.17	1.12
700	1.24	1.22	1.22	1.15	1.20	1.13	1.23	1.22	1.21	1.15	1.19	1.13
800	1.27	1.25	1.25	1.16	1.23	1.14	1.26	1.24	1.24	1.16	1.22	1.14
900	1.30	1.28	1.28	1.18	1.25	1.16	1.29	1.27	1.27	1.17	1.25	1.15
1000	1.32	1.31	1.30	1.19	1.28	1.17	1.31	1.29	1.29	1.18	1.27	1.17
1100	1.35	1.33	1.32	1.20	1.30	1.18	1.34	1.32	1.31	1.20	1.29	1.18
1200	1.38	1.35	1.35	1.22	1.32	1.20	1.36	1.34	1.34	1.21	1.31	1.19
1300	1.40	1.37	1.36	1.23	1.34	1.21	1.38	1.36	1.35	1.23	1.32	1.21
1400	1.42	1.39	1.38	1.25	1.35	1.22	1.40	1.37	1.37	1.24	1.33	1.22
1500	1.43	1.40	1.39	1.26	1.35	1.23	1.41	1.38	1.38	1.26	1.33	1.23
1600	1.44	1.40	1.40	1.28	1.35	1.25	1.42	1.38	1.39	1.27	1.33	1.24
1700	1.45	1.40	1.41	1.29	1.35	1.26	1.43	1.38	1.39	1.29	1.33	1.26
1800	1.46	1.41	1.41	1.31	1.35	1.27	1.44	1.39	1.39	1.30	1.33	1.27
1900	1.46	1.41	1.41	1.32	1.34	1.28	1.44	1.39	1.39	1.32	1.33	1.28
2000	1.46	1.41	1.41	1.34	1.33	1.28	1.44	1.39	1.39	1.33	1.32	1.28
2100	1.45	1.41	1.40	1.35	1.32	1.28	1.43	1.39	1.38	1.35	1.30	1.28
2200	1.45	1.41	1.39	1.37	1.31	1.28	1.43	1.39	1.37	1.36	1.29	1.28
2300	1.44	1.40	1.38	1.38	1.29	1.28	1.41	1.38	1.36	1.37	1.27	1.28
2400	1.42	1.40	1.36	1.40	1.28	1.29	1.40	1.37	1.34	1.39	1.26	1.28
2500	1.41	1.39	1.34	1.41	1.27	1.29	1.38	1.37	1.32	1.40	1.25	1.29
2600	1.39	1.39	1.32	1.42	1.26	1.30	1.36	1.36	1.29	1.41	1.24	1.29
2700	1.37	1.38	1.29	1.43	1.26	1.30	1.34	1.36	1.27	1.42	1.23	1.29
2800	1.34	1.38	1.26	1.44	1.25	1.30	1.32	1.36	1.24	1.43	1.22	1.29
2900	1.32	1.37	1.24	1.44	1.24	1.29	1.29	1.35	1.21	1.44	1.21	1.29
3000	1.29	1.36	1.21	1.45	1.22	1.30	1.27	1.34	1.19	1.44	1.20	1.29
3100	1.27	1.34	1.19	1.45	1.20	1.30	1.24	1.31	1.16	1.45	1.18	1.30
3200	1.24	1.32	1.16	1.46	1.19	1.31	1.22	1.29	1.14	1.45	1.16	1.31
3300	1.22	1.29	1.14	1.46	1.17	1.33	1.20	1.27	1.12	1.45	1.14	1.33
3400	1.20	1.28	1.12	1.46	1.16	1.34	1.18	1.25	1.10	1.45	1.13	1.33
3500	1.18	1.25	1.10	1.45	1.14	1.34	1.16	1.23	1.08	1.45	1.11	1.34
3600	1.17	1.23	1.09	1.45	1.13	1.35	1.14	1.21	1.07	1.44	1.10	1.34
3700	1.15	1.21	1.07	1.44	1.11	1.34	1.13	1.19	1.06	1.44	1.08	1.33
3800	1.14	1.20	1.06	1.43	1.10	1.33	1.12	1.17	1.05	1.43	1.07	1.33
3900	1.13	1.18	1.06	1.42	1.08	1.33	1.10	1.16	1.04	1.42	1.05	1.32
4000	1.13	1.17	1.05	1.41	1.07	1.32	1.10	1.15	1.04	1.41	1.04	1.32
4100	1.12	1.16	1.05	1.39	1.06	1.32	1.09	1.14	1.03	1.40	1.03	1.32
4200	1.13	1.17	1.05	1.38	1.07	1.30	1.09	1.13	1.03	1.38	1.04	1.30
4300	1.13	1.18	1.06	1.36	1.10	1.26	1.10	1.15	1.03	1.36	1.06	1.26
4400	1.15	1.21	1.07	1.34	1.13	1.23	1.11	1.17	1.03	1.34	1.09	1.23
4500	1.17	1.23	1.09	1.32	1.16	1.19	1.13	1.19	1.05	1.32	1.13	1.20
4600	1.20	1.26	1.12	1.30	1.21	1.17	1.15	1.21	1.07	1.30	1.16	1.17
4700	1.25	1.32	1.15	1.27	1.27	1.13	1.19	1.26	1.11	1.28	1.22	1.13
4800	1.30	1.39	1.20	1.25	1.33	1.12	1.24	1.32	1.15	1.25	1.28	1.10
4900	1.36	1.46	1.25	1.23	1.39	1.12	1.29	1.39	1.19	1.23	1.33	1.09
5000	1.43	1.54	1.30	1.22	1.45	1.15	1.35	1.46	1.24	1.21	1.38	1.11
5500	1.92	2.14	1.70	1.25	1.97	1.44	1.81	2.01	1.61	1.20	1.88	1.37
6000	2.67	2.76	2.25	1.52	2.35	1.75	2.50	2.59	2.15	1.43	2.24	1.65

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 - Absorptive 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	33.54	33.57	33.59	33.58	10	16.07	16.07	15.33	15.77
50	53.03	52.51	52.70	52.31	50	20.26	20.56	24.24	24.98
100	57.05	63.48	57.61	69.03	100	21.31	21.46	27.74	27.94
200	57.07	60.18	57.95	65.75	200	22.76	22.91	28.68	28.67
300	55.71	57.97	57.06	62.35	300	23.21	23.37	28.66	28.65
400	56.27	59.68	58.07	67.01	400	23.34	23.51	28.93	28.94
500	55.66	56.41	58.61	61.49	500	23.41	23.57	28.61	28.60
600	54.82	56.33	57.37	64.39	600	23.34	23.50	28.85	28.86
700	55.20	55.63	60.81	59.76	700	23.46	23.58	29.89	30.02
800	53.56	54.36	56.64	59.85	800	23.37	23.50	29.76	29.75
900	54.82	56.59	58.11	61.40	900	23.38	23.66	29.78	29.94
1000	53.26	53.64	58.97	58.03	1000	23.70	23.97	29.84	29.83
1100	53.61	54.84	56.84	61.00	1100	23.70	23.98	29.85	29.85
1200	54.23	54.36	64.67	57.13	1200	23.53	23.82	29.78	29.89
1300	51.99	52.93	55.82	58.65	1300	23.73	24.01	29.84	29.97
1400	53.67	55.46	58.22	60.36	1400	23.50	23.80	29.86	29.85
1500	52.09	52.95	56.97	59.91	1500	23.80	23.96	29.46	29.50
1600	52.62	54.45	56.59	59.81	1600	23.58	23.88	29.76	29.74
1700	52.28	52.95	58.74	58.24	1700	23.91	24.20	29.59	29.61
1800	51.20	52.19	55.04	57.80	1800	23.68	23.99	29.74	29.74
1900	52.41	53.39	60.36	64.59	1900	23.76	24.07	29.39	29.44
2000	50.75	51.56	55.53	57.26	2000	23.57	24.03	29.74	29.73
2100	51.94	53.26	56.80	59.19	2100	23.87	24.26	29.69	29.69
2200	51.48	52.19	58.20	58.15	2200	23.94	24.26	29.47	29.49
2300	50.47	51.46	55.64	57.99	2300	23.67	24.14	29.48	29.50
2400	50.65	51.50	58.31	62.42	2400	23.80	24.39	29.46	29.47
2500	50.25	50.88	55.71	58.02	2500	23.82	24.09	29.53	29.53
2600	51.66	52.46	60.44	65.35	2600	23.64	24.09	29.32	29.34
2700	49.92	50.61	55.78	58.99	2700	23.79	24.32	29.22	29.30
2800	49.61	50.33	56.43	61.04	2800	23.80	24.24	29.49	29.50
2900	49.34	50.07	55.11	56.68	2900	23.79	24.29	29.32	29.39
3000	50.00	50.86	55.68	58.52	3000	23.74	24.23	29.37	29.40
3100	49.52	50.35	57.57	60.85	3100	23.77	24.31	29.17	29.27
3200	48.79	49.55	55.23	57.76	3200	23.87	24.39	29.32	29.35
3300	49.37	50.04	57.51	59.51	3300	23.65	24.16	29.29	29.33
3400	48.85	49.50	55.70	57.25	3400	23.90	24.29	29.15	29.20
3500	48.31	48.91	55.06	56.73	3500	23.89	24.33	29.17	29.18
3600	48.29	48.83	56.09	56.97	3600	23.80	24.13	29.11	29.14
3700	48.00	48.59	55.32	57.52	3700	23.70	24.05	29.13	29.17
3800	48.25	48.66	56.84	58.23	3800	23.66	23.86	29.05	29.09
3900	47.31	47.83	54.17	56.36	3900	23.46	23.72	29.08	29.06
4000	47.58	47.70	56.35	57.93	4000	23.39	23.72	29.04	29.08
4100	46.82	47.07	53.43	54.97	4100	23.25	23.39	29.14	29.12
4200	47.65	47.41	58.24	59.58	4200	23.20	23.25	28.93	28.96
4300	47.95	45.63	56.04	61.34	4300	23.10	23.22	29.10	29.06
4400	45.47	43.59	50.99	51.95	4400	23.09	23.10	29.03	29.05
4500	47.02	44.61	53.52	53.96	4500	22.99	22.99	29.07	29.18
4600	46.54	44.67	51.78	52.98	4600	22.91	22.93	28.87	29.02
4700	45.35	43.39	51.36	51.61	4700	22.82	22.82	28.75	28.86
4800	46.19	45.74	63.15	58.23	4800	22.76	22.63	28.68	28.81
4900	44.99	44.86	51.42	51.80	4900	22.69	22.69	28.86	28.86
5000	45.29	44.93	51.17	51.26	5000	22.65	22.50	28.71	28.71

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 - Absorptive state