

## Typical Performance Data

### Definitions:

Input Return Loss = -S11 (dB)  
 Gain(Power Gain) = S21 (dB)  
 Reverse Isolation = -S12 (dB)  
 Output Return Loss = -S22 (dB)

TEST CONDITIONS: Vd = 9.00V, Id = 192mA @ Temperature = +25°C

FREQ	Gain	Isolation	Input Return Loss	Output Return Loss	Stability		IP-3 Output	1dB Comp. Output	Noise Figure
					K	Measure			
(MHz)	(dB)	(dB)	(dB)	(dB)	K	Measure	(dBm)	(dBm)	(dB)
50	14.61	19.96	14.52	18.58	1.17	0.71	45.42	26.01	3.60
100	14.70	20.17	14.36	17.33	1.18	0.71	--	26.08	3.47
200	14.72	20.26	14.13	16.76	1.18	0.71	--	26.26	3.46
300	14.71	20.29	14.07	16.62	1.19	0.71	--	26.30	3.59
450	14.67	20.29	14.00	16.58	1.19	0.71	--	26.33	3.64
600	14.61	20.29	13.91	16.66	1.19	0.72	--	26.32	3.51
750	14.55	20.27	13.81	16.68	1.19	0.72	--	26.34	3.45
900	14.49	20.29	13.70	16.70	1.20	0.73	51.79	26.36	3.38
1050	14.44	20.28	13.56	16.60	1.20	0.73	--	26.36	3.48
1200	14.38	20.31	13.33	16.35	1.21	0.73	--	26.48	3.50
1350	14.33	20.33	13.13	16.13	1.21	0.74	--	26.41	3.51
1500	14.27	20.35	12.93	15.87	1.22	0.74	--	26.53	3.46
1650	14.23	20.37	12.76	15.65	1.22	0.74	--	26.37	3.55
1800	14.18	20.41	12.59	15.40	1.22	0.75	--	26.35	3.58
1900	14.15	20.44	12.48	15.17	1.23	0.75	42.37	26.42	3.58
1950	14.14	20.44	12.45	15.17	1.23	0.75	--	26.26	3.61
2100	14.10	20.48	12.30	14.88	1.23	0.75	--	26.40	3.65
2140	14.09	20.52	12.28	14.73	1.24	0.75	41.38	26.34	3.62
2250	14.06	20.51	12.19	14.58	1.24	0.75	--	26.17	3.71
2400	14.03	20.55	12.09	14.34	1.24	0.75	--	26.04	3.72
2550	14.01	20.61	12.02	14.16	1.25	0.76	--	25.94	3.80
2700	13.99	20.62	11.98	14.02	1.25	0.76	--	25.56	3.82
2850	13.99	20.68	11.97	13.90	1.25	0.76	--	25.53	3.88
3000	13.99	20.74	11.94	13.78	1.26	0.76	--	25.48	3.98
3150	13.99	20.76	11.93	13.64	1.26	0.76	--	25.29	4.00
3300	14.00	20.81	11.95	13.54	1.26	0.76	--	24.93	4.06
3450	14.01	20.88	11.95	13.42	1.27	0.76	--	24.62	4.13
3600	14.03	20.94	11.94	13.31	1.27	0.76	--	24.38	4.26
3750	14.06	21.01	11.86	13.18	1.27	0.76	--	24.49	4.33
3900	14.08	21.09	11.76	13.06	1.27	0.76	--	24.33	4.39
4000	14.10	21.15	11.65	12.91	1.28	0.76	38.15	23.97	4.47
4050	14.11	21.17	11.56	12.88	1.28	0.77	--	24.09	4.52
4200	14.12	21.28	11.29	12.66	1.28	0.77	--	23.67	4.57
4350	14.14	21.39	10.98	12.33	1.28	0.77	--	23.48	4.64
4500	14.14	21.55	10.57	11.93	1.29	0.78	--	23.41	4.82
4650	14.13	21.73	10.08	11.45	1.29	0.78	--	23.06	4.96
4800	14.09	21.94	9.51	10.92	1.30	0.79	--	23.13	5.04
4950	14.02	22.16	8.90	10.27	1.30	0.79	--	22.28	5.23
5100	13.91	22.44	8.26	9.50	1.31	0.80	--	22.13	5.39
5250	13.77	22.77	7.59	8.62	1.31	0.79	--	22.21	5.66
5400	13.56	23.21	6.90	7.68	1.32	0.79	--	21.14	5.78
5550	13.26	23.73	6.22	6.75	1.33	0.78	--	21.43	5.98
5700	12.86	24.26	5.57	5.86	1.34	0.76	--	20.76	6.30
5850	12.37	24.90	4.96	5.04	1.36	0.73	--	20.58	6.48
6000	11.78	25.56	4.40	4.29	1.36	0.70	37.32	20.34	6.71

Note: Test data of die packaged in industry standard SOT-89 Package



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IF/RF MICROWAVE COMPONENTS

## Typical Performance Data

### Definitions:

Input Return Loss = -S11 (dB)

Gain(Power Gain) = S21 (dB)

Reverse Isolation = -S12 (dB)

Output Return Loss = -S22 (dB)

TEST CONDITIONS: Vd = 8.50V, Id = 179mA @ Temperature = +25°C

FREQ	Gain	Isolation	Input Return Loss	Output Return Loss	Stability		IP-3 Output	1dB Comp. Output	Noise Figure
					K	Measure			
(MHz)	(dB)	(dB)	(dB)	(dB)	K	Measure	(dBm)	(dBm)	(dB)
50	14.59	20.01	14.45	18.35	1.18	0.71	44.55	25.60	3.53
100	14.68	20.18	14.30	17.30	1.18	0.71	--	25.61	3.48
200	14.71	20.26	14.07	16.72	1.18	0.71	--	25.73	3.44
300	14.69	20.29	14.01	16.60	1.19	0.71	--	25.78	3.56
450	14.65	20.28	13.94	16.57	1.19	0.71	--	25.80	3.59
600	14.59	20.28	13.86	16.65	1.19	0.72	--	25.80	3.49
750	14.53	20.28	13.76	16.68	1.20	0.72	--	25.82	3.45
900	14.47	20.28	13.64	16.69	1.20	0.73	52.46	25.84	3.37
1050	14.41	20.28	13.50	16.59	1.20	0.73	--	25.84	3.42
1200	14.36	20.30	13.27	16.33	1.21	0.74	--	25.97	3.45
1350	14.30	20.33	13.08	16.13	1.21	0.74	--	25.96	3.49
1500	14.24	20.36	12.88	15.86	1.22	0.74	--	26.03	3.45
1650	14.20	20.38	12.71	15.64	1.22	0.75	--	25.85	3.50
1800	14.15	20.42	12.55	15.41	1.23	0.75	--	25.89	3.51
1900	14.12	20.45	12.43	15.17	1.23	0.75	41.60	25.97	3.50
1950	14.10	20.45	12.41	15.17	1.23	0.75	--	25.74	3.52
2100	14.07	20.50	12.26	14.89	1.24	0.76	--	25.89	3.59
2140	14.05	20.50	12.23	14.75	1.24	0.76	40.65	25.83	3.63
2250	14.02	20.53	12.15	14.59	1.24	0.76	--	25.75	3.64
2400	13.99	20.57	12.06	14.37	1.25	0.76	--	25.59	3.65
2550	13.96	20.61	11.98	14.20	1.25	0.76	--	25.51	3.75
2700	13.94	20.65	11.94	14.07	1.25	0.76	--	25.04	3.79
2850	13.94	20.69	11.93	13.97	1.26	0.76	--	25.10	3.87
3000	13.93	20.74	11.90	13.86	1.26	0.77	--	24.97	3.89
3150	13.93	20.79	11.89	13.74	1.27	0.77	--	24.86	3.96
3300	13.93	20.84	11.91	13.64	1.27	0.77	--	24.50	3.99
3450	13.94	20.89	11.91	13.54	1.27	0.77	--	24.18	4.11
3600	13.96	20.95	11.90	13.46	1.28	0.77	--	23.94	4.20
3750	13.97	21.03	11.81	13.36	1.28	0.77	--	23.97	4.31
3900	13.99	21.12	11.69	13.23	1.28	0.77	--	23.89	4.34
4000	14.01	21.18	11.58	13.10	1.29	0.77	37.48	23.52	4.38
4050	14.01	21.21	11.49	13.09	1.29	0.78	--	23.64	4.45
4200	14.02	21.31	11.23	12.87	1.29	0.78	--	23.21	4.49
4350	14.03	21.42	10.91	12.55	1.29	0.78	--	23.01	4.60
4500	14.02	21.58	10.50	12.17	1.30	0.79	--	22.92	4.77
4650	13.99	21.78	10.00	11.69	1.31	0.80	--	22.47	4.90
4800	13.95	22.00	9.45	11.16	1.31	0.81	--	22.62	4.97
4950	13.87	22.23	8.84	10.51	1.32	0.81	--	21.75	5.17
5100	13.75	22.47	8.22	9.74	1.33	0.82	--	21.59	5.32
5250	13.59	22.81	7.56	8.84	1.33	0.82	--	21.67	5.60
5400	13.38	23.22	6.88	7.88	1.34	0.81	--	20.58	5.71
5550	13.06	23.75	6.21	6.95	1.36	0.80	--	20.88	5.93
5700	12.66	24.28	5.57	6.05	1.36	0.79	--	20.12	6.20
5850	12.17	24.88	4.98	5.22	1.38	0.76	--	20.01	6.37
6000	11.58	25.53	4.43	4.46	1.39	0.73	35.33	19.72	6.61

Note: Test data of die packaged in industry standard SOT-89 Package



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IF/RF MICROWAVE COMPONENTS

## Typical Performance Data

### Definitions:

Input Return Loss = -S11 (dB)

Gain(Power Gain) = S21 (dB)

Reverse Isolation = -S12 (dB)

Output Return Loss = -S22 (dB)

TEST CONDITIONS: Vd = 9.50V, Id = 205mA @ Temperature = +25°C

FREQ	Gain	Isolation	Input Return Loss	Output Return Loss	Stability		IP-3 Output	1dB Comp. Output	Noise Figure
					K	Measure			
(MHz)	(dB)	(dB)	(dB)	(dB)	K	Measure	(dBm)	(dBm)	(dB)
50	14.62	20.00	14.54	18.50	1.17	0.71	46.03	26.46	3.66
100	14.71	20.18	14.42	17.36	1.18	0.71	--	26.58	3.58
200	14.74	20.27	14.18	16.76	1.18	0.71	--	26.78	3.53
300	14.72	20.30	14.12	16.64	1.19	0.71	--	26.81	3.64
450	14.68	20.29	14.05	16.58	1.19	0.71	--	26.84	3.69
600	14.63	20.30	13.97	16.65	1.19	0.72	--	26.83	3.54
750	14.57	20.29	13.87	16.68	1.19	0.72	--	26.85	3.52
900	14.51	20.29	13.76	16.70	1.20	0.73	50.48	26.82	3.44
1050	14.46	20.28	13.60	16.60	1.20	0.73	--	26.86	3.50
1200	14.40	20.31	13.37	16.34	1.21	0.73	--	26.98	3.53
1350	14.35	20.33	13.18	16.14	1.21	0.74	--	26.90	3.54
1500	14.30	20.34	12.97	15.85	1.21	0.74	--	26.96	3.50
1650	14.25	20.38	12.80	15.63	1.22	0.74	--	26.89	3.66
1800	14.21	20.41	12.63	15.39	1.22	0.75	--	26.86	3.60
1900	14.18	20.43	12.51	15.14	1.22	0.75	43.00	26.92	3.59
1950	14.17	20.41	12.49	15.13	1.22	0.75	--	26.77	3.64
2100	14.14	20.47	12.33	14.84	1.23	0.75	--	26.83	3.69
2140	14.12	20.47	12.29	14.69	1.23	0.75	41.74	26.77	3.63
2250	14.10	20.49	12.22	14.54	1.23	0.75	--	26.66	3.80
2400	14.07	20.52	12.11	14.28	1.24	0.75	--	26.53	3.76
2550	14.05	20.59	12.04	14.09	1.24	0.75	--	26.43	3.92
2700	14.04	20.61	11.99	13.94	1.24	0.75	--	25.99	3.91
2850	14.04	20.65	11.98	13.80	1.25	0.75	--	26.01	3.96
3000	14.04	20.71	11.95	13.66	1.25	0.75	--	25.89	4.03
3150	14.05	20.74	11.94	13.51	1.25	0.75	--	25.70	4.10
3300	14.06	20.79	11.95	13.38	1.25	0.75	--	25.34	4.13
3450	14.08	20.84	11.96	13.25	1.26	0.75	--	25.04	4.24
3600	14.11	20.91	11.95	13.12	1.26	0.75	--	24.88	4.32
3750	14.14	20.97	11.88	12.96	1.26	0.75	--	24.91	4.38
3900	14.17	21.07	11.77	12.81	1.26	0.75	--	24.76	4.48
4000	14.19	21.13	11.67	12.66	1.26	0.75	38.48	24.48	4.54
4050	14.20	21.13	11.58	12.62	1.26	0.75	--	24.52	4.62
4200	14.22	21.25	11.32	12.37	1.27	0.76	--	24.12	4.63
4350	14.25	21.37	11.01	12.03	1.27	0.76	--	23.94	4.77
4500	14.26	21.52	10.60	11.62	1.27	0.76	--	23.95	4.90
4650	14.25	21.70	10.10	11.14	1.28	0.76	--	23.53	5.08
4800	14.23	21.90	9.53	10.60	1.28	0.77	--	23.70	5.11
4950	14.17	22.11	8.90	9.95	1.28	0.77	--	22.78	5.33
5100	14.07	22.39	8.26	9.19	1.29	0.77	--	22.71	5.47
5250	13.93	22.74	7.58	8.32	1.30	0.77	--	22.73	5.71
5400	13.73	23.18	6.87	7.39	1.30	0.76	--	21.67	5.88
5550	13.43	23.69	6.17	6.47	1.31	0.75	--	21.94	6.10
5700	13.04	24.26	5.52	5.60	1.32	0.72	--	21.29	6.28
5850	12.54	24.90	4.90	4.80	1.33	0.70	--	21.17	6.59
6000	11.94	25.62	4.34	4.07	1.34	0.66	36.23	20.83	6.84

Note: Test data of die packaged in industry standard SOT-89 Package



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