MSiP Amplifier Module HXG-242+

Typical Performance Data

NOTE: Use PDF Bookmarks to view DATA at required conditions

Definitions:

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

TEST CONDITIONS: Vd = 5.00V, Id = 145.16mA @ Temperature = +25degC

FREQ	Gain	Isolation	Input Return Loss	Output Return Loss	Stability		IP-3 Output	1dB Comp. Output	Noise Figure
(MHz)	(dB)	(dB)	(dB)	(dB)	K	Measure	(dBm)	(dBm)	(dB)
500	16.33	20.73	18.07	18.73	1.12	0.66	41.42	22.87	1.89
600	16.18	20.70	18.27	18.17	1.13	0.67	41.36	22.81	1.99
700	16.10	20.63	17.34	17.08	1.12	0.67	40.74	22.74	1.95
800	15.97	20.57	16.84	16.20	1.13	0.68	43.11	22.97	2.06
900	15.83	20.50	16.37	16.08	1.13	0.69	41.52	22.82	2.05
1000	15.75	20.46	15.59	15.41	1.11	0.69	43.22	23.10	2.14
1050	15.66	20.46	15.75	14.97	1.13	0.70	43.58	23.05	2.15
1100	15.60	20.33	15.21	14.59	1.12	0.70	45.68	23.19	2.09
1150	15.57	20.30	14.64	14.29	1.13	0.71	43.97	23.17	2.18
1200	15.45	20.27	14.61	14.35	1.12	0.71	44.67	23.05	2.15
1250	15.45	20.25	14.11	13.84	1.12	0.71	44.67	23.07	2.17
1300	15.35	20.23	14.18	13.91	1.12	0.72	43.46	23.06	2.19
1350	15.25	20.21	13.99	13.78	1.12	0.72	45.57	23.16	2.18
1400	15.20	20.10	13.46	13.33	1.12	0.72	47.25	23.27	2.22
1450	15.12	20.02	13.14	13.32	1.12	0.73	46.61	23.42	2.26
1500	15.06	20.06	13.00	13.38	1.12	0.73	44.72	23.40	2.28
1550	15.03	19.95	12.65	13.05	1.11	0.73	45.54	23.24	2.26
1600	14.94	19.91	12.40	12.90	1.12	0.75	50.85	23.54	2.26
1650	14.82	19.91	12.13	12.74	1.11	0.75	47.38	23.58	2.31
1700	14.75	19.86	12.24	12.88	1.11	0.75	49.71	23.54	2.23
1750	14.67	19.79	11.87	12.69	1.11	0.76	45.40	23.48	2.15
1800	14.66	19.74	11.42	12.57	1.12	0.76	45.25	23.39	2.35
1850	14.65	19.67	11.14	12.49	1.11	0.76	46.27	23.71	2.29
1900	14.49	19.58	11.01	12.68	1.11	0.77	45.80	23.63	2.24
1950	14.40	19.57	10.90	12.63	1.11	0.78	46.10	23.74	2.49
2000	14.40	19.55	10.54	12.66	1.10	0.79	48.53	23.64	2.39
2050	14.25	19.50	10.57	12.81	1.09	0.79	48.46	23.59	2.35
2100	14.22	19.39	10.13	12.28	1.10	0.79	49.53	23.79	2.35
2150	14.11	19.39	9.95	12.68	1.10	0.81	49.03	23.73	2.37
2200	14.07	19.29	9.67	12.62	1.09	0.81	47.11	23.83	2.37
2250	14.01	19.20	9.47	12.38	1.08	0.81	46.55	23.83	2.42
2300	13.94	19.11	9.09	12.84	1.09	0.82	45.11	23.90	2.43
2350	13.89	19.15	8.91	12.85	1.08	0.82	46.73	23.99	2.29
2400	13.81	19.05	8.52	12.81	1.07	0.83	48.48	23.85	2.38
2500	13.71	18.94	8.16	12.87	1.06	0.84	47.08	23.90	2.53
2600	13.54	18.84	7.74	13.06	1.05	0.85	46.52	23.87	2.51
2700	13.44	18.74	7.21	13.46	1.02	0.86	46.21	23.88	2.63
2800	13.30	18.68	6.74	13.21	0.99	0.88	44.81	23.85	2.68
2900	13.19	18.48	6.27	13.57	0.97	0.89	47.87	23.70	2.68
3000	13.04	18.43	5.73	13.58	0.94	0.90	45.38	23.70	2.78

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 = 4.75V, Id = 133.07mA @ Temperature = +25degC

FREQ	Gain	Isolation	Input Return Loss	Output Return Loss	Stability		IP-3 Output	1dB Comp. Output	Noise Figure
(MHz)	(dB)	(dB)	(dB)	(dB)	K	Measure	(dBm)	(dBm)	(dB)
500	16.22	20.66	18.17	18.65	1.12	0.66	42.98	22.33	1.89
600	16.09	20.64	18.39	18.16	1.12	0.67	42.46	22.29	1.98
700	16.00	20.53	17.46	16.92	1.12	0.67	41.42	22.21	1.95
800	15.87	20.49	16.95	16.36	1.13	0.68	42.95	22.44	2.02
900	15.74	20.44	16.50	15.71	1.13	0.69	41.50	22.30	2.02
1000	15.66	20.38	15.66	15.06	1.12	0.69	43.06	22.55	2.09
1050	15.55	20.37	15.84	14.89	1.13	0.70	42.36	22.51	2.13
1100	15.49	20.24	15.28	14.67	1.12	0.70	42.40	22.65	2.07
1150	15.46	20.22	14.70	14.30	1.13	0.71	42.25	22.62	2.17
1200	15.36	20.17	14.70	14.25	1.12	0.71	42.30	22.52	2.17
1250	15.35	20.17	14.18	13.65	1.13	0.72	41.96	22.51	2.12
1300	15.25	20.13	14.24	13.77	1.12	0.72	41.55	22.51	2.15
1350	15.15	20.12	14.07	13.87	1.12	0.72	42.38	22.60	2.13
1400	15.11	20.00	13.53	13.38	1.12	0.72	42.56	22.71	2.17
1450	15.03	19.95	13.23	13.10	1.12	0.73	42.27	22.83	2.23
1500	14.96	19.95	13.07	13.07	1.12	0.74	41.51	22.82	2.30
1550	14.93	19.85	12.73	12.68	1.11	0.73	42.33	22.67	2.23
1600	14.85	19.83	12.49	12.92	1.12	0.74	43.50	22.94	2.30
1650	14.73	19.78	12.20	12.79	1.11	0.75	43.57	22.99	2.28
1700	14.65	19.77	12.33	12.83	1.11	0.75	42.80	22.96	2.19
1750	14.58	19.70	11.94	12.93	1.11	0.76	41.56	22.89	2.10
1800	14.56	19.61	11.50	12.59	1.12	0.77	42.01	22.83	2.31
1850	14.54	19.56	11.22	12.57	1.11	0.77	42.04	23.08	2.24
1900	14.41	19.48	11.08	12.56	1.11	0.77	42.34	23.02	2.23
1950	14.30	19.45	10.97	12.50	1.11	0.78	40.93	23.14	2.40
2000	14.30	19.44	10.61	12.58	1.10	0.79	43.01	23.04	2.35
2050	14.17	19.42	10.61	12.75	1.09	0.79	42.48	22.99	2.32
2100	14.14	19.26	10.18	12.56	1.10	0.79	42.32	23.17	2.34
2150	14.02	19.30	10.01	12.74	1.10	0.80	42.42	23.10	2.33
2200	13.98	19.17	9.74	12.64	1.09	0.80	42.81	23.21	2.33
2250	13.92	19.11	9.54	12.63	1.08	0.81	41.61	23.20	2.40
2300	13.84	19.00	9.15	12.66	1.09	0.82	41.55	23.26	2.38
2350	13.81	19.03	8.96	13.06	1.08	0.82	42.32	23.35	2.31
2400	13.72	18.94	8.58	12.92	1.07	0.83	42.37	23.21	2.31
2500	13.63	18.81	8.21	13.01	1.06	0.84	42.00	23.24	2.46
2600	13.46	18.70	7.78	13.37	1.05	0.85	42.14	23.26	2.53
2700	13.37	18.63	7.25	13.44	1.02	0.86	41.47	23.26	2.55
2800	13.22	18.55	6.77	13.55	0.99	0.88	41.72	23.21	2.64
2900	13.11	18.38	6.31	13.90	0.97	0.88	42.75	23.12	2.62
3000	12.97	18.32	5.75	13.96	0.94	0.90	42.58	23.08	2.74

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 = 5.25V, Id = 158.18mA @ Temperature = +25degC

FREQ	Gain	Isolation	Input Return Loss	Output Return Loss	Stability		IP-3 Output	1dB Comp. Output	Noise Figure
(MHz)	(dB)	(dB)	(dB)	(dB)	K	Measure	(dBm)	(dBm)	(dB)
500	16.40	20.81	17.95	18.60	1.12	0.66	40.77	23.33	1.98
600	16.26	20.78	18.14	18.65	1.13	0.67	41.41	23.28	2.03
700	16.18	20.72	17.27	17.11	1.12	0.67	40.69	23.22	1.97
800	16.04	20.64	16.74	16.60	1.13	0.68	42.05	23.46	2.07
900	15.92	20.57	16.31	15.93	1.13	0.69	41.21	23.30	2.08
1000	15.84	20.54	15.51	15.23	1.12	0.69	42.29	23.60	2.17
1050	15.73	20.58	15.68	15.41	1.13	0.70	43.09	23.53	2.17
1100	15.67	20.40	15.15	14.56	1.12	0.70	44.29	23.71	2.12
1150	15.64	20.39	14.56	14.53	1.13	0.71	44.40	23.67	2.19
1200	15.52	20.36	14.55	14.15	1.12	0.71	43.29	23.56	2.23
1250	15.53	20.34	14.05	14.04	1.13	0.72	44.27	23.58	2.18
1300	15.42	20.31	14.09	13.86	1.12	0.72	43.18	23.55	2.22
1350	15.32	20.29	13.93	13.90	1.12	0.72	44.14	23.69	2.19
1400	15.27	20.18	13.39	13.47	1.12	0.72	45.07	23.80	2.24
1450	15.19	20.09	13.08	13.28	1.11	0.73	47.90	23.95	2.29
1500	15.12	20.13	12.95	13.51	1.12	0.74	48.80	23.93	2.31
1550	15.11	20.03	12.61	12.93	1.11	0.73	44.36	23.75	2.31
1600	15.01	19.97	12.35	12.93	1.12	0.75	46.66	24.08	2.35
1650	14.89	19.93	12.08	12.82	1.11	0.74	45.93	24.11	2.35
1700	14.82	19.92	12.19	12.80	1.11	0.75	48.49	24.08	2.29
1750	14.76	19.87	11.80	12.85	1.11	0.76	45.58	24.00	2.17
1800	14.73	19.80	11.39	12.56	1.12	0.77	45.69	23.92	2.38
1850	14.71	19.73	11.10	12.28	1.11	0.77	47.63	24.25	2.32
1900	14.57	19.63	10.95	12.36	1.11	0.77	48.02	24.18	2.29
1950	14.47	19.62	10.86	12.54	1.11	0.78	50.45	24.28	2.48
2000	14.46	19.62	10.49	12.68	1.10	0.79	45.17	24.15	2.42
2050	14.32	19.60	10.50	12.67	1.10	0.79	46.30	24.11	2.39
2100	14.30	19.43	10.07	12.24	1.10	0.79	48.02	24.35	2.38
2150	14.18	19.47	9.92	12.74	1.10	0.80	46.74	24.27	2.36
2200	14.12	19.33	9.62	12.47	1.09	0.81	47.90	24.38	2.42
2250	14.08	19.26	9.43	12.47	1.08	0.81	48.59	24.39	2.46
2300	13.98	19.21	9.06	12.66	1.09	0.82	45.59	24.51	2.47
2350	13.96	19.21	8.87	12.72	1.08	0.82	46.98	24.56	2.32
2400	13.87	19.10	8.50	12.58	1.07	0.83	45.58	24.40	2.41
2500	13.77	19.01	8.13	12.88	1.06	0.84	45.52	24.46	2.54
2600	13.61	18.91	7.71	13.06	1.04	0.85	46.97	24.41	2.60
2700	13.49	18.79	7.19	13.18	1.02	0.86	43.56	24.43	2.68
2800	13.37	18.76	6.71	13.40	0.99	0.88	42.71	24.40	2.69
2900	13.24	18.56	6.25	13.37	0.97	0.88	43.27	24.23	2.71
3000	13.09	18.52	5.72	13.63	0.94	0.90	42.49	24.24	2.82

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 = 5.00V, Id = 146.26mA @ Temperature = -45degC

FREQ	Gain	Isolation	Input Return Loss	Output Return Loss	Stability		IP-3 Output	1dB Comp. Output	Noise Figure
(MHz)	(dB)	(dB)	(dB)	(dB)	K	Measure	(dBm)	(dBm)	(dB)
500	15.79	20.20	20.85	17.72	1.12	0.64	38.35	22.93	1.63
600	15.66	20.17	21.10	17.87	1.13	0.66	38.15	22.90	1.84
700	15.60	20.12	19.85	17.36	1.13	0.65	38.02	22.87	1.64
800	15.51	20.04	19.60	16.63	1.13	0.66	38.83	23.05	1.77
900	15.41	20.01	19.10	16.58	1.13	0.66	37.88	22.93	1.75
1000	15.34	19.98	18.09	16.22	1.13	0.67	39.50	23.13	1.83
1050	15.26	20.01	18.30	15.94	1.14	0.68	39.01	23.10	1.87
1100	15.22	19.89	17.64	15.31	1.13	0.67	40.32	23.21	1.78
1150	15.21	19.86	17.01	15.04	1.13	0.68	40.20	23.19	1.85
1200	15.11	19.87	17.06	15.16	1.13	0.69	39.89	23.09	1.90
1250	15.12	19.83	16.42	14.70	1.13	0.69	39.99	23.08	1.86
1300	15.03	19.81	16.57	14.83	1.13	0.69	39.41	23.11	1.90
1350	14.95	19.78	16.30	15.04	1.13	0.69	40.34	23.19	1.87
1400	14.91	19.67	15.64	14.72	1.13	0.70	40.59	23.29	1.92
1450	14.85	19.64	15.28	14.54	1.13	0.70	42.23	23.39	1.92
1500	14.80	19.67	15.08	14.45	1.13	0.71	41.26	23.39	1.99
1550	14.80	19.57	14.76	14.04	1.12	0.70	40.53	23.25	1.94
1600	14.72	19.54	14.47	13.98	1.13	0.72	42.03	23.52	1.96
1650	14.61	19.50	14.17	14.16	1.12	0.71	41.89	23.55	2.01
1700	14.56	19.49	14.31	14.15	1.12	0.72	42.55	23.53	1.91
1750	14.50	19.45	13.79	14.19	1.12	0.72	41.11	23.44	1.83
1800	14.49	19.39	13.23	14.04	1.13	0.73	41.19	23.38	2.03
1850	14.48	19.34	12.87	14.06	1.12	0.74	43.68	23.65	1.91
1900	14.35	19.23	12.72	13.97	1.12	0.74	43.66	23.59	1.96
1950	14.26	19.24	12.59	13.86	1.12	0.75	43.90	23.70	2.09
2000	14.28	19.27	12.11	14.04	1.12	0.76	42.57	23.64	2.01
2050	14.13	19.22	12.15	13.98	1.11	0.75	42.75	23.59	2.03
2100	14.14	19.13	11.63	13.87	1.11	0.76	43.29	23.78	1.99
2150	14.02	19.13	11.40	13.90	1.11	0.77	44.04	23.70	1.95
2200	13.99	18.99	11.07	14.10	1.10	0.77	42.77	23.81	2.03
2250	13.94	18.97	10.82	13.97	1.09	0.77	46.84	23.81	2.05
2300	13.85	18.87	10.36	13.92	1.10	0.78	46.89	23.82	2.02
2350	13.84	18.88	10.13	14.04	1.09	0.78	44.75	23.93	1.93
2400	13.75	18.82	9.67	13.98	1.08	0.79	43.67	23.84	1.99
2500	13.67	18.72	9.25	14.04	1.07	0.80	47.15	23.86	2.14
2600	13.51	18.66	8.74	14.34	1.06	0.80	45.48	23.91	2.17
2700	13.41	18.55	8.13	14.28	1.03	0.81	48.14	23.93	2.22
2800	13.30	18.53	7.53	14.01	1.00	0.83	47.96	23.93	2.26
2900	13.19	18.34	7.02	13.89	0.98	0.83	45.17	23.82	2.23
3000	13.04	18.30	6.41	13.72	0.95	0.84	45.33	23.72	2.38

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 = 4.75V, Id = 133.22mA @ Temperature = -45degC

FREQ	Gain	Isolation	Input Return Loss	Output Return Loss	Stability		IP-3 Output	1dB Comp. Output	Noise Figure
(MHz)	(dB)	(dB)	(dB)	(dB)	K	Measure	(dBm)	(dBm)	(dB)
500	15.68	20.12	20.88	17.80	1.12	0.64	38.62	22.36	1.56
600	15.56	20.11	21.14	17.83	1.13	0.65	38.43	22.32	1.75
700	15.49	20.02	19.93	17.15	1.13	0.65	38.21	22.28	1.67
800	15.40	19.97	19.67	16.85	1.13	0.67	38.99	22.44	1.74
900	15.30	19.93	19.15	16.14	1.13	0.66	38.50	22.35	1.74
1000	15.24	19.90	18.16	15.85	1.12	0.67	39.72	22.52	1.80
1050	15.16	19.92	18.38	15.67	1.14	0.68	39.70	22.52	1.85
1100	15.11	19.82	17.73	15.59	1.13	0.67	41.16	22.60	1.74
1150	15.10	19.74	17.10	15.10	1.13	0.68	40.74	22.57	1.84
1200	15.01	19.77	17.15	15.20	1.13	0.69	40.41	22.50	1.86
1250	15.01	19.76	16.47	14.88	1.13	0.69	40.32	22.49	1.85
1300	14.93	19.71	16.63	14.79	1.13	0.69	39.92	22.51	1.85
1350	14.86	19.70	16.38	14.99	1.13	0.69	40.34	22.57	1.83
1400	14.81	19.60	15.73	14.56	1.13	0.70	41.39	22.66	1.87
1450	14.75	19.55	15.38	14.34	1.13	0.70	42.91	22.75	1.93
1500	14.70	19.58	15.18	14.33	1.13	0.71	41.38	22.75	1.94
1550	14.70	19.50	14.85	14.18	1.12	0.71	40.52	22.64	1.91
1600	14.62	19.43	14.57	13.92	1.13	0.71	42.92	22.87	1.91
1650	14.52	19.43	14.24	14.20	1.12	0.72	42.19	22.91	1.94
1700	14.47	19.42	14.40	14.28	1.12	0.72	43.44	22.90	1.86
1750	14.41	19.36	13.86	14.00	1.12	0.72	40.64	22.84	1.79
1800	14.40	19.30	13.32	13.74	1.13	0.74	41.88	22.78	1.99
1850	14.38	19.27	12.94	13.82	1.12	0.74	43.53	23.00	1.93
1900	14.26	19.15	12.79	13.99	1.12	0.74	42.44	22.93	1.92
1950	14.18	19.16	12.64	13.99	1.12	0.74	42.36	23.03	2.10
2000	14.19	19.18	12.17	14.13	1.12	0.75	42.40	22.99	2.04
2050	14.05	19.14	12.20	14.13	1.11	0.76	42.17	22.95	1.95
2100	14.05	19.01	11.71	13.89	1.11	0.76	43.51	23.10	1.97
2150	13.94	19.06	11.48	14.11	1.11	0.77	43.09	23.04	1.95
2200	13.90	18.88	11.13	13.93	1.10	0.77	44.25	23.11	2.03
2250	13.86	18.84	10.87	13.82	1.10	0.77	44.50	23.10	2.05
2300	13.78	18.80	10.41	14.05	1.10	0.78	44.68	23.08	2.04
2350	13.75	18.83	10.18	14.26	1.09	0.78	44.45	23.20	1.87
2400	13.67	18.73	9.72	13.94	1.08	0.79	44.02	23.13	1.97
2500	13.59	18.65	9.29	13.89	1.07	0.80	44.48	23.13	2.11
2600	13.43	18.58	8.79	14.36	1.06	0.80	43.58	23.23	2.11
2700	13.33	18.49	8.17	14.51	1.03	0.82	48.21	23.20	2.20
2800	13.22	18.43	7.58	13.81	1.00	0.83	46.26	23.20	2.20
2900	13.12	18.26	7.05	14.00	0.98	0.83	47.39	23.14	2.17
3000	12.97	18.23	6.45	13.78	0.95	0.84	47.96	23.06	2.28

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 = 5.25V, Id = 160.75mA @ Temperature = -45degC

FREQ	Gain	Isolation	Input Return Loss	Output Return Loss	Stability		IP-3 Output	1dB Comp. Output	Noise Figure
(MHz)	(dB)	(dB)	(dB)	(dB)	K	Measure	(dBm)	(dBm)	(dB)
500	15.86	20.27	20.84	17.97	1.12	0.64	37.90	23.50	1.65
600	15.74	20.22	21.07	17.89	1.13	0.65	37.78	23.46	1.81
700	15.69	20.18	19.81	17.38	1.13	0.65	37.63	23.41	1.69
800	15.58	20.12	19.55	16.97	1.13	0.66	38.55	23.60	1.76
900	15.48	20.06	19.04	16.36	1.13	0.66	37.92	23.48	1.79
1000	15.42	20.04	18.03	15.81	1.12	0.67	39.18	23.72	1.84
1050	15.34	20.05	18.25	15.78	1.14	0.67	38.62	23.67	1.86
1100	15.29	19.93	17.58	15.68	1.13	0.67	39.63	23.79	1.82
1150	15.28	19.92	16.97	15.32	1.13	0.68	39.93	23.76	1.90
1200	15.17	19.90	17.03	15.00	1.13	0.68	39.46	23.67	1.91
1250	15.19	19.89	16.37	14.86	1.13	0.69	39.96	23.66	1.91
1300	15.10	19.83	16.53	14.81	1.13	0.69	38.98	23.69	1.92
1350	15.02	19.82	16.26	14.93	1.13	0.69	39.80	23.76	1.86
1400	14.98	19.76	15.61	14.62	1.13	0.70	39.95	23.86	1.93
1450	14.91	19.72	15.26	14.30	1.13	0.70	40.80	23.97	1.97
1500	14.86	19.73	15.04	14.52	1.13	0.71	40.80	23.97	2.02
1550	14.86	19.64	14.72	14.15	1.12	0.71	39.97	23.81	1.94
1600	14.78	19.61	14.44	13.98	1.13	0.72	41.17	24.12	2.00
1650	14.68	19.57	14.11	14.19	1.12	0.72	40.96	24.15	1.99
1700	14.63	19.54	14.27	14.21	1.12	0.72	41.82	24.15	1.91
1750	14.57	19.49	13.75	14.17	1.12	0.72	40.63	24.08	1.85
1800	14.56	19.46	13.20	14.02	1.13	0.73	40.71	24.00	2.05
1850	14.54	19.43	12.82	13.87	1.12	0.74	42.51	24.27	1.97
1900	14.42	19.28	12.69	13.87	1.12	0.74	43.47	24.19	1.91
1950	14.33	19.31	12.55	14.27	1.12	0.75	42.42	24.32	2.10
2000	14.34	19.28	12.07	13.89	1.11	0.75	40.86	24.26	2.06
2050	14.20	19.26	12.12	14.01	1.11	0.75	41.64	24.21	2.02
2100	14.20	19.14	11.61	13.59	1.11	0.76	42.20	24.42	1.98
2150	14.07	19.14	11.39	13.87	1.11	0.77	42.85	24.35	2.00
2200	14.05	19.04	11.05	13.89	1.10	0.77	42.44	24.48	2.03
2250	14.00	19.00	10.78	13.99	1.09	0.77	43.78	24.47	2.11
2300	13.92	18.89	10.34	14.00	1.10	0.78	46.50	24.53	2.12
2350	13.89	18.95	10.11	14.14	1.09	0.78	43.48	24.64	1.93
2400	13.81	18.86	9.66	13.89	1.08	0.79	43.59	24.51	2.01
2500	13.73	18.78	9.24	14.04	1.07	0.80	44.75	24.54	2.17
2600	13.57	18.73	8.73	14.22	1.05	0.80	43.23	24.58	2.21
2700	13.47	18.59	8.11	14.07	1.03	0.82	44.07	24.58	2.25
2800	13.35	18.58	7.51	13.92	1.00	0.83	43.51	24.58	2.33
2900	13.25	18.40	7.01	13.93	0.98	0.83	43.13	24.46	2.29
3000	13.10	18.35	6.41	13.76	0.95	0.84	43.64	24.43	2.36

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 = 5.00V, Id = 148.00mA @ Temperature = +85degC

FREQ	Gain	Isolation	Input Return Loss	Output Return Loss	Stability		IP-3 Output	1dB Comp. Output	Noise Figure
(MHz)	(dB)	(dB)	(dB)	(dB)	K	Measure	(dBm)	(dBm)	(dB)
500	16.62	21.12	15.64	17.96	1.11	0.67	46.22	22.79	2.22
600	16.46	21.07	15.82	17.40	1.12	0.68	45.94	22.73	2.31
700	16.37	20.96	15.19	16.31	1.11	0.68	43.86	22.68	2.22
800	16.21	20.92	14.68	15.59	1.12	0.70	46.59	22.94	2.30
900	16.05	20.84	14.29	14.92	1.12	0.70	44.91	22.76	2.34
1000	15.96	20.78	13.69	14.28	1.11	0.71	48.42	23.10	2.45
1050	15.85	20.79	13.84	14.28	1.12	0.72	49.23	23.01	2.43
1100	15.79	20.66	13.41	13.98	1.11	0.72	47.27	23.20	2.37
1150	15.73	20.60	12.93	13.56	1.12	0.73	49.20	23.18	2.46
1200	15.62	20.58	12.91	13.22	1.11	0.73	54.87	23.05	2.49
1250	15.60	20.52	12.51	13.18	1.11	0.74	46.84	23.05	2.48
1300	15.49	20.51	12.53	12.84	1.11	0.74	48.40	23.05	2.49
1350	15.38	20.45	12.42	12.91	1.11	0.74	49.55	23.17	2.46
1400	15.33	20.34	11.98	12.58	1.11	0.75	48.66	23.28	2.50
1450	15.24	20.28	11.75	12.37	1.11	0.75	46.02	23.43	2.59
1500	15.17	20.28	11.65	12.49	1.10	0.75	45.82	23.42	2.62
1550	15.13	20.17	11.35	12.14	1.10	0.76	51.93	23.23	2.57
1600	15.02	20.11	11.14	12.04	1.11	0.77	45.95	23.56	2.59
1650	14.89	20.08	10.92	11.84	1.10	0.77	46.17	23.56	2.59
1700	14.82	20.06	11.01	12.17	1.10	0.77	45.56	23.53	2.59
1750	14.74	20.00	10.69	12.02	1.10	0.78	49.30	23.45	2.45
1800	14.72	19.93	10.33	11.80	1.11	0.79	49.29	23.39	2.67
1850	14.68	19.87	10.11	11.88	1.10	0.79	45.35	23.68	2.58
1900	14.53	19.75	9.99	11.68	1.10	0.79	45.24	23.60	2.66
1950	14.42	19.75	9.93	11.87	1.10	0.80	44.13	23.69	2.75
2000	14.43	19.70	9.63	11.84	1.09	0.81	48.30	23.57	2.70
2050	14.27	19.68	9.66	12.01	1.09	0.81	47.29	23.50	2.68
2100	14.25	19.53	9.27	11.67	1.09	0.82	45.99	23.72	2.71
2150	14.11	19.53	9.14	11.87	1.09	0.83	46.22	23.64	2.72
2200	14.06	19.39	8.90	11.93	1.08	0.83	45.28	23.72	2.74
2250	13.99	19.37	8.73	11.65	1.07	0.83	43.20	23.71	2.79
2300	13.91	19.20	8.39	11.71	1.08	0.84	43.24	23.81	2.82
2350	13.86	19.26	8.28	12.06	1.08	0.84	44.15	23.87	2.68
2400	13.77	19.17	7.95	12.06	1.07	0.85	44.87	23.72	2.73
2500	13.67	19.08	7.64	12.38	1.06	0.87	42.99	23.75	2.89
2600	13.49	18.93	7.29	12.59	1.05	0.88	44.67	23.71	2.96
2700	13.38	18.82	6.79	12.96	1.02	0.89	43.30	23.71	2.99
2800	13.23	18.78	6.37	13.12	0.99	0.91	42.56	23.70	3.07
2900	13.10	18.55	5.93	13.27	0.97	0.92	43.58	23.53	3.09
3000	12.94	18.52	5.43	13.52	0.95	0.94	41.05	23.54	3.20

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 = 4.75V, Id = 135.23mA @ Temperature = +85degC

FREQ	Gain	Isolation	Input Return Loss	Output Return Loss	Stability		IP-3 Output	1dB Comp. Output	Noise Figure
(MHz)	(dB)	(dB)	(dB)	(dB)	K	Measure	(dBm)	(dBm)	(dB)
500	16.52	21.01	15.76	18.24	1.11	0.67	44.52	22.31	2.12
600	16.37	20.98	15.95	17.43	1.12	0.68	46.57	22.24	2.25
700	16.26	20.86	15.30	16.24	1.11	0.69	44.43	22.18	2.19
800	16.11	20.82	14.79	15.71	1.12	0.70	44.50	22.43	2.26
900	15.97	20.72	14.42	14.86	1.12	0.70	43.55	22.28	2.29
1000	15.86	20.65	13.78	14.08	1.11	0.71	43.95	22.59	2.39
1050	15.75	20.68	13.93	14.19	1.12	0.72	44.46	22.52	2.39
1100	15.68	20.53	13.52	13.86	1.11	0.71	43.39	22.68	2.32
1150	15.64	20.47	13.02	13.33	1.12	0.73	42.79	22.65	2.43
1200	15.51	20.43	13.00	13.29	1.11	0.73	44.45	22.53	2.43
1250	15.52	20.42	12.60	12.94	1.11	0.73	42.81	22.53	2.42
1300	15.40	20.37	12.64	12.98	1.11	0.74	42.87	22.55	2.47
1350	15.29	20.36	12.52	12.70	1.11	0.74	43.51	22.64	2.44
1400	15.24	20.22	12.08	12.67	1.11	0.74	43.02	22.76	2.46
1450	15.14	20.13	11.83	12.34	1.10	0.75	42.77	22.89	2.53
1500	15.07	20.15	11.73	12.50	1.11	0.76	42.04	22.88	2.54
1550	15.04	20.04	11.43	11.92	1.10	0.76	43.68	22.69	2.51
1600	14.93	19.99	11.23	12.04	1.11	0.77	43.52	23.00	2.57
1650	14.81	19.96	10.99	11.81	1.10	0.77	43.84	23.02	2.59
1700	14.72	19.98	11.10	12.14	1.10	0.77	44.15	22.98	2.45
1750	14.65	19.85	10.77	11.95	1.10	0.78	43.05	22.92	2.41
1800	14.62	19.77	10.42	11.68	1.11	0.78	43.54	22.85	2.64
1850	14.59	19.72	10.19	11.73	1.10	0.79	42.27	23.12	2.58
1900	14.45	19.60	10.07	11.44	1.10	0.79	41.89	23.04	2.55
1950	14.34	19.56	10.01	11.69	1.10	0.80	41.64	23.16	2.72
2000	14.34	19.53	9.70	11.74	1.09	0.81	44.11	23.04	2.66
2050	14.19	19.50	9.73	11.90	1.09	0.81	43.65	22.96	2.64
2100	14.15	19.41	9.33	11.55	1.09	0.81	43.16	23.17	2.67
2150	14.03	19.40	9.20	12.06	1.09	0.83	43.07	23.10	2.63
2200	13.98	19.24	8.97	12.00	1.08	0.83	42.65	23.17	2.70
2250	13.91	19.16	8.80	11.77	1.08	0.83	41.76	23.19	2.75
2300	13.83	19.06	8.46	12.24	1.08	0.84	41.20	23.26	2.72
2350	13.78	19.10	8.34	12.44	1.08	0.85	42.04	23.32	2.60
2400	13.69	19.02	8.01	12.25	1.07	0.85	43.58	23.17	2.69
2500	13.59	18.91	7.70	12.66	1.06	0.87	41.87	23.21	2.83
2600	13.42	18.76	7.33	12.89	1.04	0.87	42.40	23.18	2.88
2700	13.30	18.65	6.83	13.22	1.02	0.89	42.42	23.19	2.96
2800	13.16	18.59	6.41	13.46	0.99	0.91	41.44	23.15	3.05
2900	13.04	18.37	5.96	13.71	0.97	0.92	42.91	23.03	3.00
3000	12.88	18.33	5.45	14.15	0.95	0.94	42.30	23.00	3.12

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 = 5.25V, Id = 160.80mA @ Temperature = +85degC

FREQ	Gain	Isolation	Input Return Loss	Output Return Loss	Stability		IP-3 Output	1dB Comp. Output	Noise Figure
(MHz)	(dB)	(dB)	(dB)	(dB)	K	Measure	(dBm)	(dBm)	(dB)
500	16.68	21.19	15.53	17.98	1.11	0.67	44.47	23.24	2.23
600	16.53	21.12	15.70	17.53	1.12	0.68	44.49	23.18	2.37
700	16.42	21.06	15.11	16.51	1.11	0.69	43.66	23.12	2.30
800	16.27	20.99	14.59	15.71	1.12	0.70	45.41	23.39	2.37
900	16.12	20.94	14.21	15.11	1.12	0.71	44.31	23.20	2.39
1000	16.03	20.85	13.61	14.29	1.10	0.71	45.93	23.56	2.46
1050	15.91	20.86	13.75	14.06	1.12	0.72	46.44	23.49	2.52
1100	15.84	20.70	13.36	13.86	1.11	0.72	46.77	23.69	2.43
1150	15.81	20.66	12.86	13.34	1.12	0.73	47.35	23.66	2.55
1200	15.67	20.65	12.83	13.44	1.11	0.73	47.91	23.54	2.54
1250	15.67	20.62	12.45	13.31	1.11	0.74	47.47	23.53	2.53
1300	15.55	20.57	12.46	13.15	1.11	0.74	50.19	23.54	2.56
1350	15.45	20.55	12.34	12.91	1.11	0.74	46.62	23.66	2.55
1400	15.39	20.43	11.92	12.79	1.11	0.75	46.05	23.78	2.56
1450	15.30	20.36	11.69	12.51	1.11	0.75	45.82	23.93	2.65
1500	15.23	20.34	11.59	12.51	1.11	0.76	46.98	23.92	2.70
1550	15.19	20.24	11.29	12.24	1.10	0.76	45.50	23.72	2.66
1600	15.09	20.20	11.08	12.08	1.11	0.77	45.25	24.06	2.65
1650	14.96	20.15	10.86	11.99	1.10	0.77	44.25	24.06	2.66
1700	14.88	20.17	10.94	12.04	1.10	0.78	45.02	24.03	2.61
1750	14.80	20.10	10.63	12.01	1.10	0.78	46.06	23.96	2.53
1800	14.77	19.99	10.29	11.82	1.11	0.79	44.11	23.88	2.75
1850	14.75	19.94	10.05	11.59	1.10	0.79	44.84	24.19	2.67
1900	14.59	19.85	9.94	11.58	1.10	0.79	43.42	24.11	2.72
1950	14.48	19.83	9.88	11.78	1.10	0.80	44.16	24.19	2.77
2000	14.49	19.78	9.57	11.76	1.09	0.81	44.31	24.04	2.81
2050	14.33	19.76	9.61	12.00	1.08	0.81	44.04	23.97	2.77
2100	14.30	19.66	9.21	11.56	1.09	0.82	43.15	24.18	2.78
2150	14.16	19.61	9.09	11.81	1.09	0.83	43.40	24.12	2.81
2200	14.11	19.49	8.85	11.79	1.08	0.83	44.19	24.19	2.83
2250	14.05	19.46	8.69	11.84	1.07	0.83	42.34	24.21	2.85
2300	13.97	19.33	8.35	11.79	1.08	0.84	42.63	24.32	2.92
2350	13.92	19.34	8.25	11.98	1.08	0.85	42.89	24.36	2.75
2400	13.84	19.25	7.91	11.94	1.06	0.85	41.73	24.19	2.81
2500	13.72	19.19	7.61	12.51	1.06	0.87	41.49	24.22	2.96
2600	13.54	19.01	7.26	12.58	1.04	0.87	42.11	24.19	3.02
2700	13.42	18.93	6.77	12.67	1.02	0.89	41.54	24.19	3.10
2800	13.27	18.87	6.35	12.80	0.99	0.91	40.62	24.14	3.16
2900	13.15	18.67	5.91	13.25	0.97	0.92	40.61	23.98	3.18
3000	12.99	18.64	5.42	13.30	0.95	0.94	40.07	24.01	3.30