

*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: $V_{DD} = +3\text{ V}$ @ Temperature = +25°C

FREQ	Gain	Isolation	Input Return Loss	Output Return Loss	Stability		1dB Comp. Output	Psat Output	Noise Figure	OIP3 Output
(GHz)	(dB)	(dB)	(dB)	(dB)	K	Measure	(dBm)	(dBm)	(dB)	(dBm)
0.01	17.62	26.60	9.25	8.85	1.32	0.79	9.58	12.00	6.77	23.50
0.02	17.62	23.43	12.26	20.42	1.16	0.78	10.27	12.33	4.68	22.04
0.03	17.51	23.01	13.79	26.84	1.15	0.76	10.51	12.46	3.91	23.64
0.04	17.46	22.75	14.54	26.45	1.14	0.74	10.87	12.78	3.20	22.15
0.05	17.43	22.71	14.93	25.43	1.14	0.74	11.02	12.92	2.85	25.93
0.1	17.44	22.33	15.55	24.07	1.12	0.71	11.07	12.94	2.20	23.79
0.2	17.51	22.10	16.22	24.72	1.11	0.68	11.75	13.56	1.83	25.44
0.4	17.61	21.85	17.17	27.15	1.10	0.65	13.04	14.72	1.54	24.37
0.6	17.64	21.77	17.49	29.18	1.10	0.64	13.70	15.30	1.43	25.38
0.8	17.63	21.78	17.31	31.12	1.11	0.64	13.95	15.44	1.41	24.13
1.0	17.60	21.84	16.93	32.95	1.11	0.65	14.08	15.58	1.37	24.38
1.5	17.49	22.02	15.55	31.93	1.13	0.69	14.20	15.95	1.51	23.41
2.0	17.38	22.27	14.38	26.82	1.15	0.72	14.18	15.95	1.41	25.19
2.5	17.30	22.44	13.86	24.74	1.17	0.74	14.14	15.98	1.42	24.58
3.0	17.23	22.61	13.82	24.40	1.19	0.76	14.00	16.10	1.40	24.16
3.5	17.15	22.82	13.48	23.45	1.21	0.79	13.85	16.16	1.47	23.18
4.0	17.01	23.12	12.30	20.86	1.24	0.82	13.54	16.12	1.55	23.77
4.5	16.80	23.46	10.69	17.47	1.27	0.85	12.89	15.90	1.67	23.49
5.0	16.59	23.86	9.28	14.57	1.30	0.87	12.01	15.82	1.78	20.66
5.5	16.49	24.13	8.60	12.98	1.32	0.87	11.27	15.75	1.85	20.64
6.0	16.54	24.24	8.75	12.95	1.33	0.87	10.51	15.86	1.85	22.36
6.5	16.73	24.31	9.49	14.46	1.36	0.87	10.53	15.80	1.84	19.66
7.0	16.87	24.39	10.11	17.35	1.37	0.89	10.62	15.65	1.86	20.37
7.5	16.79	24.67	9.58	20.29	1.40	0.94	10.37	15.37	1.96	19.89
8.0	16.54	25.02	8.49	20.95	1.43	0.99	10.22	15.00	2.14	19.21
8.5	16.34	25.31	7.73	17.39	1.45	1.01	10.77	14.14	2.30	19.84
9.0	16.32	25.30	7.56	14.36	1.45	0.98	11.18	13.37	2.42	20.89
9.5	16.46	25.09	7.93	13.51	1.44	0.94	11.76	13.20	2.43	20.70
10.0	16.59	24.79	9.25	14.22	1.44	0.91	11.66	13.34	2.48	22.76
10.5	16.66	24.49	11.22	14.14	1.44	0.87	11.97	13.69	2.65	21.59
11.0	16.44	24.56	12.15	12.40	1.47	0.85	11.70	13.70	2.71	22.94
11.5	15.94	24.82	10.92	11.47	1.53	0.87	11.30	13.52	2.45	22.48
12.0	15.58	25.00	9.72	11.02	1.57	0.89	10.80	13.39	2.41	22.36
12.5	15.36	24.96	9.34	11.66	1.60	0.92	11.41	13.88	2.37	22.96
13.0	14.92	25.24	9.17	11.49	1.70	0.93	11.53	13.99	2.51	22.80
13.5	14.15	25.89	8.57	11.06	1.92	0.96	11.02	13.72	2.87	24.42
14.0	13.19	26.83	7.28	10.87	2.20	1.02	10.73	13.49	3.26	22.07

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: $V_{DD} = +2\text{ V}$ @ Temperature = +25°C

FREQ	Gain	Isolation	Input Return Loss	Output Return Loss	Stability		1dB Comp. Output	Psat Output	Noise Figure	OIP3 Output
(GHz)	(dB)	(dB)	(dB)	(dB)	K	Measure	(dBm)	(dBm)	(dB)	(dBm)
0.01	8.78	25.22	8.17	3.02	1.74	0.49	5.67	6.67	6.41	12.06
0.02	10.05	20.91	6.92	5.23	1.36	0.64	5.44	6.79	4.69	9.97
0.03	10.38	19.88	6.39	6.29	1.29	0.69	5.17	6.69	4.16	8.30
0.04	10.54	19.57	6.13	6.82	1.24	0.71	5.68	7.01	3.52	8.41
0.05	10.63	19.36	5.96	7.13	1.22	0.72	6.04	7.22	3.15	8.33
0.1	10.78	18.93	5.68	7.55	1.18	0.73	5.90	7.10	2.65	7.11
0.2	10.87	18.71	5.69	7.60	1.17	0.72	6.58	7.43	2.49	10.23
0.4	10.87	18.55	5.77	7.50	1.16	0.70	7.68	8.04	2.40	9.95
0.6	10.81	18.57	5.79	7.43	1.17	0.70	8.33	8.44	2.30	13.59
0.8	10.71	18.63	5.76	7.32	1.18	0.70	8.49	8.57	2.37	12.61
1.0	10.59	18.72	5.73	7.22	1.19	0.71	8.68	8.66	2.26	12.88
1.5	10.24	19.00	5.62	7.02	1.23	0.73	9.07	8.95	2.49	12.67
2.0	9.91	19.26	5.59	6.95	1.28	0.76	8.83	8.84	2.38	12.65
2.5	9.65	19.32	5.47	6.90	1.30	0.78	8.81	8.84	2.58	12.63
3.0	9.52	19.29	5.41	6.86	1.31	0.79	8.91	9.00	2.49	12.70
3.5	9.30	19.33	5.34	6.81	1.33	0.80	8.96	9.09	2.57	12.45
4.0	8.81	19.56	5.20	6.47	1.37	0.81	9.23	9.26	2.57	12.32
4.5	8.16	19.96	4.89	5.98	1.43	0.81	8.84	8.98	2.78	12.17
5.0	7.47	20.41	4.68	5.61	1.51	0.81	8.90	8.99	2.98	11.08
5.5	6.96	20.66	4.68	5.49	1.60	0.82	8.36	8.72	3.11	11.26
6.0	6.81	20.54	4.91	5.74	1.66	0.84	8.52	8.79	3.14	11.03
6.5	6.96	20.18	5.41	6.34	1.68	0.84	8.57	8.86	3.15	10.02
7.0	7.06	19.82	5.97	7.11	1.70	0.87	8.25	8.68	3.26	10.29
7.5	6.91	19.66	6.07	7.61	1.71	0.92	8.27	8.79	3.41	9.86
8.0	6.58	19.73	5.80	7.35	1.70	0.95	7.83	8.58	3.63	8.57
8.5	6.15	19.81	5.38	6.72	1.71	0.93	7.48	8.15	3.80	7.13
9.0	5.94	19.63	5.08	6.26	1.68	0.90	6.72	7.43	4.02	6.91
9.5	6.22	18.93	4.90	6.56	1.58	0.90	7.14	7.96	3.96	7.45
10.0	6.69	18.11	5.39	7.66	1.54	0.92	7.25	8.61	3.99	8.69
10.5	7.14	17.24	6.17	10.28	1.50	0.98	7.57	8.90	3.82	9.52
11.0	7.35	16.75	6.80	14.26	1.49	1.01	7.86	9.42	3.81	8.24
11.5	7.11	16.69	6.67	20.21	1.49	1.07	7.88	9.67	3.78	10.82
12.0	7.23	16.25	6.34	22.62	1.42	1.11	8.04	9.91	3.57	11.04
12.5	7.14	16.13	6.21	20.52	1.41	1.13	8.01	9.76	3.56	12.63
13.0	7.02	16.06	6.35	19.76	1.43	1.14	7.75	9.51	3.78	13.23
13.5	6.57	16.32	6.46	18.98	1.48	1.16	7.42	9.38	3.89	13.68
14.0	5.70	17.15	5.92	18.14	1.64	1.19	7.43	9.50	4.19	15.00

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: $V_{DD} = +4\text{ V}$ @ Temperature = +25°C

FREQ	Gain	Isolation	Input Return Loss	Output Return Loss	Stability		1dB Comp. Output	Psat Output	Noise Figure	OIP3 Output
(GHz)	(dB)	(dB)	(dB)	(dB)	K	Measure	(dBm)	(dBm)	(dB)	(dBm)
0.01	19.90	27.34	9.75	12.97	1.25	0.84	14.77	16.54	7.29	26.72
0.02	19.61	24.97	13.66	23.51	1.14	0.76	15.44	16.97	4.84	28.56
0.03	19.37	24.45	16.35	17.34	1.13	0.71	15.68	17.05	3.88	27.12
0.04	19.28	24.37	17.73	15.74	1.12	0.70	15.94	17.26	3.15	27.80
0.05	19.23	24.19	18.86	15.03	1.12	0.68	16.02	17.34	2.79	30.92
0.1	19.22	23.98	20.69	14.39	1.11	0.65	16.09	17.33	2.11	29.58
0.2	19.30	23.73	21.75	14.77	1.10	0.63	16.73	17.91	1.76	29.12
0.4	19.42	23.38	22.79	15.93	1.09	0.59	17.86	18.89	1.46	31.98
0.6	19.47	23.28	23.67	16.76	1.09	0.58	18.19	19.21	1.36	29.28
0.8	19.49	23.28	23.70	17.49	1.09	0.59	18.23	19.30	1.34	31.40
1.0	19.49	23.32	23.14	18.41	1.10	0.60	18.29	19.44	1.27	31.50
1.5	19.45	23.46	21.91	20.85	1.11	0.63	18.30	19.71	1.37	28.61
2.0	19.41	23.66	19.68	23.38	1.13	0.67	18.32	19.78	1.30	31.13
2.5	19.37	23.82	18.00	25.67	1.14	0.69	18.26	19.86	1.33	27.21
3.0	19.32	23.98	17.40	26.81	1.15	0.71	18.13	20.07	1.36	25.09
3.5	19.27	24.17	16.56	27.90	1.17	0.73	18.01	20.09	1.43	28.15
4.0	19.21	24.39	15.19	38.34	1.19	0.76	17.63	20.02	1.46	29.71
4.5	19.10	24.67	13.40	28.49	1.22	0.79	17.35	19.97	1.57	27.76
5.0	18.99	24.95	11.68	21.27	1.24	0.82	16.64	19.66	1.63	26.87
5.5	18.97	25.19	10.67	18.16	1.25	0.83	16.58	19.55	1.66	26.63
6.0	19.04	25.44	10.59	17.60	1.27	0.84	16.21	19.51	1.68	27.10
6.5	19.18	25.55	11.11	18.37	1.28	0.84	15.98	19.25	1.70	24.95
7.0	19.19	25.78	11.31	18.06	1.30	0.85	16.16	19.22	1.81	25.25
7.5	19.04	26.14	10.03	16.46	1.34	0.89	15.63	18.89	1.92	25.66
8.0	18.75	26.58	8.68	16.65	1.39	0.94	15.30	18.57	2.07	24.29
8.5	18.50	27.00	7.95	15.85	1.44	0.97	14.89	17.57	2.23	25.30
9.0	18.36	27.13	7.76	14.19	1.47	0.96	14.96	16.80	2.34	26.04
9.5	18.42	26.84	8.36	13.11	1.45	0.92	15.05	16.47	2.31	25.28
10.0	18.40	26.76	9.88	12.09	1.48	0.87	14.76	16.41	2.29	25.89
10.5	18.31	26.54	11.45	10.78	1.48	0.82	15.09	16.87	2.30	25.11
11.0	17.99	26.63	11.37	9.61	1.52	0.81	14.63	16.83	2.37	27.01
11.5	17.35	26.99	10.05	9.15	1.60	0.84	14.47	16.73	2.39	26.30
12.0	17.00	26.97	9.33	8.93	1.62	0.85	13.77	16.50	2.40	25.12
12.5	16.70	26.98	9.20	9.42	1.68	0.88	14.71	17.03	2.38	25.72
13.0	16.27	27.13	9.09	9.96	1.81	0.91	14.86	17.12	2.69	25.53
13.5	15.44	27.65	8.42	10.83	2.04	0.96	14.21	16.80	2.96	25.23
14.0	14.46	28.40	7.13	10.67	2.33	1.03	13.86	16.55	3.36	25.08

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: $V_{DD} = +3\text{ V}$ @ Temperature = -55°C

FREQ	Gain	Isolation	Input Return Loss	Output Return Loss	Stability		1dB Comp. Output	Psat Output	Noise Figure	OIP3 Output
(GHz)	(dB)	(dB)	(dB)	(dB)	K	Measure	(dBm)	(dBm)	(dB)	(dBm)
0.01	18.48	26.71	9.25	8.89	1.23	0.78	7.59	10.13	5.86	20.40
0.02	18.36	23.88	13.04	20.82	1.14	0.76	8.05	10.92	3.53	23.15
0.03	18.18	23.32	15.31	24.87	1.14	0.72	8.21	11.35	2.68	23.37
0.04	18.11	23.02	16.30	23.66	1.12	0.70	8.53	11.80	2.04	23.81
0.05	18.08	22.96	17.01	22.64	1.13	0.70	8.66	11.98	1.80	25.06
0.1	18.06	22.72	17.95	21.63	1.12	0.67	8.59	12.00	1.34	25.11
0.2	18.10	22.53	18.50	22.00	1.11	0.65	9.07	12.52	1.19	26.00
0.4	18.19	22.29	20.11	22.52	1.10	0.62	10.29	13.80	1.00	25.16
0.6	18.22	22.15	20.69	23.30	1.09	0.61	11.20	14.69	0.96	26.10
0.8	18.24	22.14	20.89	24.03	1.09	0.61	11.50	14.93	0.92	25.35
1.0	18.24	22.13	20.62	24.86	1.10	0.61	11.69	15.21	0.87	24.91
1.5	18.20	22.28	18.62	30.86	1.11	0.64	11.91	15.52	0.97	24.20
2.0	18.14	22.47	16.92	43.54	1.13	0.67	11.91	15.51	0.87	24.58
2.5	18.09	22.61	16.31	33.08	1.14	0.69	11.89	15.51	0.83	25.06
3.0	18.07	22.77	16.63	35.24	1.15	0.71	11.73	15.53	0.83	22.54
3.5	18.05	22.97	16.67	35.84	1.17	0.73	11.64	15.48	0.87	24.26
4.0	17.98	23.22	15.07	28.83	1.19	0.76	11.43	15.29	0.94	23.55
4.5	17.84	23.51	12.49	21.92	1.21	0.79	11.06	14.86	0.99	23.13
5.0	17.69	23.91	10.35	16.89	1.23	0.82	10.63	14.38	1.14	20.21
5.5	17.61	24.19	9.34	14.04	1.24	0.82	9.93	14.27	1.12	20.14
6.0	17.70	24.31	9.64	12.99	1.25	0.79	9.78	14.54	1.11	21.62
6.5	17.95	24.38	10.69	13.44	1.26	0.78	9.53	14.53	1.11	19.44
7.0	18.20	24.40	11.63	15.01	1.25	0.79	9.76	14.43	1.14	19.88
7.5	18.32	24.55	11.12	15.89	1.24	0.82	9.61	14.12	1.19	19.91
8.0	18.28	24.83	9.52	17.73	1.24	0.88	9.49	13.88	1.29	19.29
8.5	18.30	25.10	8.40	19.30	1.25	0.92	9.30	13.08	1.38	20.77
9.0	18.42	25.14	7.91	14.32	1.24	0.87	9.50	12.31	1.44	21.70
9.5	18.64	24.95	7.75	11.77	1.20	0.80	9.69	12.02	1.51	21.84
10.0	18.85	24.91	8.89	11.51	1.20	0.76	9.69	11.99	1.58	23.45
10.5	19.01	24.65	11.51	10.87	1.18	0.71	9.68	12.07	1.75	22.73
11.0	18.88	24.79	13.84	8.96	1.18	0.65	9.21	11.79	1.88	24.18
11.5	18.71	24.93	14.04	7.85	1.18	0.62	8.62	11.46	1.68	22.04
12.0	18.58	24.98	13.67	7.75	1.19	0.63	7.94	10.98	1.66	22.31
12.5	18.44	25.01	13.38	7.95	1.21	0.65	8.21	11.33	1.81	21.50
13.0	18.13	25.24	12.68	7.52	1.24	0.65	8.24	11.48	1.92	21.92
13.5	17.47	25.84	11.42	6.77	1.33	0.66	7.88	11.15	2.25	22.09
14.0	16.78	26.71	9.07	6.14	1.45	0.68	7.55	10.92	2.54	19.26

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: $V_{DD} = +3\text{ V}$ @ Temperature = $+105^{\circ}\text{C}$

FREQ	Gain	Isolation	Input Return Loss	Output Return Loss	Stability		1dB Comp. Output	Psat Output	Noise Figure	OIP3 Output
(GHz)	(dB)	(dB)	(dB)	(dB)	K	Measure	(dBm)	(dBm)	(dB)	(dBm)
0.01	16.75	25.88	9.30	8.35	1.33	0.77	9.84	11.98	7.32	22.05
0.02	16.86	22.98	11.47	17.63	1.18	0.78	10.42	12.29	4.88	21.23
0.03	16.78	22.49	12.54	24.23	1.16	0.77	10.66	12.40	4.03	23.53
0.04	16.75	22.30	13.01	28.70	1.15	0.77	11.03	12.70	3.33	23.15
0.05	16.74	22.16	13.24	31.60	1.15	0.76	11.20	12.85	3.08	25.03
0.1	16.76	21.90	13.75	33.78	1.13	0.73	11.35	12.91	2.61	23.82
0.2	16.85	21.63	14.36	33.40	1.12	0.70	12.15	13.57	2.37	25.48
0.4	16.95	21.37	14.93	31.99	1.11	0.67	13.29	14.49	2.12	23.15
0.6	16.95	21.36	15.00	29.82	1.11	0.67	13.79	14.85	2.02	25.47
0.8	16.93	21.37	14.72	27.72	1.12	0.67	13.87	14.98	1.95	24.72
1.0	16.88	21.45	14.38	25.88	1.12	0.68	13.95	15.06	1.93	25.29
1.5	16.74	21.66	13.42	22.69	1.15	0.71	14.08	15.32	2.05	23.87
2.0	16.60	21.86	12.69	21.16	1.17	0.75	14.02	15.36	1.97	25.20
2.5	16.49	22.08	12.24	20.29	1.18	0.77	13.97	15.42	2.00	25.55
3.0	16.39	22.27	11.91	19.35	1.20	0.80	13.93	15.50	1.99	24.53
3.5	16.26	22.50	11.43	17.82	1.22	0.82	13.80	15.52	2.10	23.42
4.0	16.08	22.82	10.65	16.02	1.26	0.85	13.53	15.41	2.16	23.47
4.5	15.81	23.19	9.65	14.13	1.31	0.87	12.83	15.11	2.29	22.83
5.0	15.48	23.63	8.64	12.44	1.36	0.88	12.29	15.00	2.47	20.55
5.5	15.26	24.01	8.12	11.69	1.41	0.90	11.37	14.84	2.55	20.04
6.0	15.21	24.17	8.33	12.27	1.45	0.91	10.76	14.88	2.56	21.75
6.5	15.30	24.26	8.99	14.27	1.50	0.94	10.81	14.78	2.56	18.84
7.0	15.30	24.36	9.42	17.49	1.53	0.97	10.92	14.61	2.68	20.05
7.5	15.14	24.61	9.12	19.94	1.57	1.01	10.70	14.33	2.86	19.65
8.0	15.16	24.58	8.13	19.87	1.52	1.04	10.77	13.93	2.86	19.39
8.5	15.05	24.73	7.81	17.45	1.54	1.04	11.27	13.35	3.00	20.23
9.0	15.08	24.50	7.88	15.66	1.52	1.01	11.56	13.01	3.12	21.31
9.5	15.21	24.13	8.11	15.44	1.49	0.98	12.11	13.26	3.05	21.41
10.0	15.24	23.84	9.15	17.15	1.50	0.96	12.04	13.38	3.10	22.70
10.5	15.04	23.75	10.51	17.74	1.56	0.94	12.27	13.58	3.29	20.94
11.0	14.80	23.73	11.06	14.60	1.59	0.92	12.31	13.68	3.43	23.28
11.5	14.43	23.86	10.09	12.88	1.62	0.92	12.03	13.66	3.07	23.05
12.0	13.94	24.08	9.19	13.07	1.70	0.96	11.41	13.38	2.91	23.90
12.5	13.40	24.33	8.77	13.95	1.81	1.00	11.97	13.68	3.08	23.56
13.0	12.77	24.78	8.62	14.04	2.02	1.03	11.85	13.69	3.28	23.92
13.5	11.83	25.54	8.15	13.65	2.36	1.06	11.15	13.27	3.76	23.45
14.0	10.85	26.51	6.79	13.37	2.72	1.12	10.77	13.00	4.10	23.02