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 V, I_{DD} = 145 mA @ Temperature = +25°C

FREQ	Gain	Isolation	Input Return Loss	Output Return Loss	Stability	
(GHz)	(dB)	(dB)	(dB)	(dB)	K	Measure
8	24.55	60.25	11.56	8.73	24.49	0.93
8.2	24.51	60.20	12.05	9.26	25.16	0.94
8.4	24.46	60.71	12.60	9.73	27.44	0.94
8.6	24.40	61.15	13.42	10.28	29.78	0.95
8.8	24.36	61.45	14.47	10.86	31.70	0.95
9	24.33	61.96	15.84	11.54	34.51	0.95
9.2	24.28	62.12	17.65	12.40	36.14	0.96
9.4	24.27	62.35	19.90	13.35	37.84	0.96
9.6	24.31	62.46	22.65	14.31	38.71	0.97
9.8	24.36	61.97	25.56	15.18	36.76	0.97
10	24.41	62.21	26.55	15.81	37.69	0.98
10.2	24.49	60.92	24.27	16.05	32.23	0.98
10.4	24.55	60.69	21.68	15.86	31.06	0.98
10.6	24.60	59.88	19.40	15.40	27.91	0.98
10.8	24.62	58.91	17.63	14.81	24.63	0.98
11	24.61	58.33	16.27	14.34	22.82	0.99
11.2	24.58	57.79	15.25	13.96	21.30	0.99
11.4	24.54	57.18	14.47	13.73	19.80	0.99
11.6	24.49	56.19	13.82	13.79	17.68	1.00
11.8	24.45	54.58	13.35	13.85	14.66	1.00
12	24.42	54.30	13.16	14.07	14.24	1.01
12.2	24.38	54.14	13.19	14.55	14.12	1.01
12.4	24.31	54.40	13.44	15.23	14.76	1.02
12.6	24.25	55.43	13.75	16.50	16.95	1.02
12.8	24.21	56.50	14.14	18.35	19.49	1.02
13	24.15	55.65	14.75	20.28	17.98	1.02
13.2	24.08	54.85	15.63	22.49	16.72	1.02
13.4	24.04	54.05	16.87	25.24	15.48	1.02
13.6	24.07	54.61	18.78	27.39	16.59	1.01
13.8	24.02	57.01	20.82	26.61	22.09	1.01
14	23.88	56.63	22.37	23.36	21.49	1.00
14.2	23.76	54.97	23.87	20.85	17.96	0.99
14.4	23.66	53.29	24.60	18.82	14.92	0.99
14.6	23.58	51.80	24.56	16.90	12.59	0.98
14.8	23.63	49.86	23.54	15.35	9.92	0.97
15	23.80	48.15	21.87	14.31	7.93	0.97
15.2	23.92	46.94	20.95	13.72	6.76	0.96
15.4	23.94	46.20	20.43	13.86	6.21	0.96
15.6	23.81	45.67	19.72	14.16	5.95	0.96
15.8	23.52	45.39	18.44	14.37	5.95	0.97
16	23.04	45.32	16.61	14.07	6.18	0.97
16.2	22.31	45.55	14.17	12.68	6.67	0.97
16.4	21.72	44.76	11.32	11.40	6.18	0.98
16.6	21.31	43.60	9.72	10.86	5.42	1.00
16.8	20.68	44.01	8.87	10.10	5.82	1.01
17	19.88	44.27	8.28	9.59	6.31	1.02

Typical Performance Data

NOTE: Use PDF Bookmarks to view DATA at required

TEST CONDITIONS: V_{DD} = +4 V, I_{DD} = 145 mA @ Temperature = +25°C

FREQ	1dB Comp. Output	Psat Output	IP3 Output	IM3 Output	IP2 Output	IDD at P1dB	IDD at PSat	Pdiss at Psat	PAE at Psat	Noise Figure
(GHz)	(dBm)	(dBm)	(dBm)	(dBc)	(dBm)	(mA)	(mA)	(W)	(%)	(dB)
9	19.79	21.36	30.67	-36.63	35.50	137.69	148.38	0.47	21.00	5.85
9.2	19.85	21.43	30.69	-36.68	36.69	137.71	147.56	0.47	21.29	5.76
9.4	20.00	21.60	31.30	-37.96	37.76	138.02	147.88	0.47	21.98	5.66
9.6	20.06	21.68	32.03	-39.48	38.99	136.46	144.58	0.45	22.63	5.56
9.8	20.18	21.81	32.13	-39.78	40.21	135.82	142.80	0.44	23.38	5.47
10	20.40	21.99	32.10	-39.83	41.57	135.68	143.03	0.44	24.11	5.41
10.2	20.48	22.04	32.09	-39.88	42.71	134.95	141.34	0.43	24.39	5.34
10.4	20.76	22.27	32.05	-39.84	43.63	135.89	144.19	0.44	25.09	5.26
10.6	20.85	22.31	31.88	-39.54	44.05	135.40	143.87	0.44	25.27	5.20
10.8	21.07	22.51	31.73	-39.28	44.53	136.22	146.46	0.44	26.10	5.19
11	21.22	22.63	31.57	-38.96	45.01	136.81	148.43	0.44	26.58	5.15
11.2	21.33	22.73	31.33	-38.47	45.62	137.69	150.50	0.45	26.95	5.14
11.4	21.55	22.92	31.25	-38.29	46.59	140.20	155.01	0.45	27.56	5.13
11.6	21.58	22.92	31.13	-38.04	48.21	140.81	155.55	0.46	27.54	5.11
11.8	21.78	23.09	31.11	-38.01	49.82	144.01	160.30	0.47	28.03	5.10
12	21.78	23.05	30.94	-37.69	51.48	143.63	159.81	0.47	27.98	5.09
12.2	21.90	23.13	31.02	-37.87	53.40	145.08	161.39	0.47	28.38	5.08
12.4	21.95	23.16	31.14	-38.10	55.85	145.56	162.94	0.47	28.37	5.06
12.6	21.92	23.11	31.10	-38.01	57.96	144.95	162.00	0.47	28.25	5.05
12.8	22.00	23.19	31.01	-37.81	60.60	146.20	164.18	0.48	28.36	5.03
13	21.86	23.07	31.03	-37.85	63.84	144.24	162.24	0.47	27.80	5.01
13.2	21.86	23.11	31.09	-37.97	67.90	144.56	163.29	0.48	27.68	4.97
13.4	21.68	23.00	30.72	-37.29	71.91	143.43	162.20	0.48	26.91	4.95
13.6	21.50	22.90	30.46	-36.82	73.32	142.69	160.95	0.48	26.27	4.92
13.8	21.37	22.83	30.14	-36.17	71.91	143.07	162.06	0.49	25.53	4.90
14	21.08	22.61	29.85	-35.47	68.29	141.30	159.92	0.49	24.47	4.87
14.2	20.99	22.54	29.54	-34.78	64.93	141.72	162.05	0.50	23.93	4.80
14.4	20.72	22.28	29.20	-34.05	62.38	140.74	161.39	0.50	22.79	4.75
14.6	20.58	22.14	28.84	-33.33	60.73	141.00	162.39	0.51	22.24	4.74
14.8	20.40	21.94	28.54	-32.71	59.55	141.62	163.72	0.52	21.29	4.73
15	20.18	21.70	28.29	-32.18	58.59	140.68	162.38	0.52	20.63	4.69
15.2	20.08	21.56	28.08	-31.71	58.06	141.58	163.72	0.53	19.94	4.66
15.4	19.81	21.28	27.90	-31.34	57.38	139.74	161.32	0.53	19.23	4.64
15.6	19.76	21.18	27.83	-31.18	56.95	139.86	162.67	0.53	18.87	4.64
15.8	19.53	20.94	27.73	-30.98	56.31	138.55	162.10	0.54	18.07	4.62
16	19.41	20.80	27.64	-30.82	55.44	138.08	162.98	0.54	17.62	4.63
16.2	19.26	20.65	27.46	-30.45	54.51	137.83	164.56	0.55	16.83	4.63
16.4	19.05	20.45	27.14	-29.78	53.83	136.39	165.85	0.56	15.92	4.64
16.6	19.04	20.42	26.73	-28.91	53.41	136.46	168.87	0.58	15.37	4.66
16.8	18.92	20.32	26.48	-28.40	53.35	135.74	171.94	0.60	14.43	4.66
17	18.91	20.31	26.19	-27.81	53.22	136.19	175.05	0.61	13.94	4.65

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} = +5 V, I_{DD} = 145 mA @ Temperature = +25°C

FREQ	Gain	Isolation	Input Return Loss	Output Return Loss	Stability	
(GHz)	(dB)	(dB)	(dB)	(dB)	K	Measure
8	23.89	60.98	11.54	8.25	28.25	0.91
8.2	23.78	60.95	12.08	8.70	29.26	0.92
8.4	23.69	62.09	12.75	9.15	34.62	0.92
8.6	23.59	61.64	13.69	9.65	34.11	0.93
8.8	23.53	61.28	14.76	10.31	33.86	0.94
9	23.51	61.17	16.05	11.08	34.37	0.94
9.2	23.46	61.98	17.96	12.09	38.97	0.95
9.4	23.45	61.84	20.33	13.29	39.26	0.96
9.6	23.51	63.03	23.45	14.74	45.51	0.97
9.8	23.58	62.86	27.07	16.45	44.92	0.98
10	23.65	62.23	29.46	18.37	41.80	0.99
10.2	23.73	59.77	26.26	20.08	31.29	0.99
10.4	23.78	59.12	23.15	19.99	28.81	0.99
10.6	23.86	59.07	20.83	19.38	28.25	1.00
10.8	23.96	59.42	19.08	18.30	28.87	1.00
11	23.99	59.13	17.56	17.17	27.55	1.00
11.2	23.95	58.37	16.36	15.90	25.04	1.00
11.4	23.88	57.84	15.47	15.06	23.49	1.00
11.6	23.81	57.20	14.76	14.61	21.79	1.00
11.8	23.78	54.76	14.18	14.29	16.37	1.00
12	23.74	54.94	13.93	14.55	16.80	1.01
12.2	23.69	54.41	13.86	14.84	15.90	1.01
12.4	23.64	53.92	14.11	15.54	15.24	1.01
12.6	23.55	54.47	14.49	16.56	16.56	1.01
12.8	23.45	55.85	14.91	18.25	19.87	1.02
13	23.38	55.68	15.37	20.16	19.79	1.02
13.2	23.35	55.22	16.18	23.36	19.05	1.02
13.4	23.28	54.03	17.33	27.61	16.89	1.02
13.6	23.24	53.34	18.88	33.13	15.79	1.01
13.8	23.25	54.60	21.07	34.32	18.34	1.01
14	23.13	54.66	22.76	33.85	18.75	1.00
14.2	23.00	53.86	24.09	25.89	17.37	1.00
14.4	22.94	52.68	24.58	22.57	15.24	1.00
14.6	22.90	51.89	24.29	19.66	13.89	0.99
14.8	22.84	50.94	23.56	17.96	12.47	0.99
15	22.90	49.13	21.82	16.30	9.96	0.98
15.2	22.99	47.93	20.16	15.85	8.55	0.98
15.4	22.99	46.76	18.88	15.60	7.43	0.98
15.6	22.88	45.66	18.03	15.64	6.64	0.98
15.8	22.60	44.96	17.25	16.03	6.33	0.99
16	22.19	44.51	16.12	16.13	6.27	0.99
16.2	21.50	44.38	14.55	15.28	6.58	1.00
16.4	21.03	45.58	11.22	12.96	7.47	1.01
16.6	20.82	45.18	9.52	12.06	6.95	1.03
16.8	20.29	44.92	8.85	11.37	6.93	1.04
17	19.61	45.65	8.35	10.77	7.87	1.05

Typical Performance Data

NOTE: Use PDF Bookmarks to view DATA at required

TEST CONDITIONS: V_{DD} = +5 V, I_{DD} = 145 mA @ Temperature = +25°C

FREQ	1dB Comp. Output	Psat Output	IP3 Output	IM3 Output	IP2 Output	IDD at P1dB	IDD at PSat	Pdiss at Psat	PAE at Psat	Noise Figure
(GHz)	(dBm)	(dBm)	(dBm)	(dBc)	(dBm)	(mA)	(mA)	(W)	(%)	(dB)
9	21.22	22.69	31.04	-37.30	34.34	151.73	174.52	0.70	20.73	5.87
9.2	21.27	22.73	31.20	-37.70	35.30	150.12	171.91	0.68	21.20	5.78
9.4	21.38	22.85	31.25	-37.80	36.47	149.29	171.35	0.68	21.93	5.68
9.6	21.43	22.88	31.29	-38.00	37.80	146.23	166.91	0.65	22.66	5.58
9.8	21.52	22.98	31.31	-38.20	39.20	144.79	165.95	0.64	23.29	5.48
10	21.67	23.11	31.38	-38.40	40.66	144.04	166.45	0.64	23.98	5.43
10.2	21.74	23.14	31.42	-38.50	41.97	142.55	163.71	0.62	24.49	5.37
10.4	21.94	23.34	31.41	-38.50	42.94	143.86	167.52	0.63	25.13	5.30
10.6	22.01	23.38	31.31	-38.30	43.54	143.48	165.38	0.62	25.66	5.24
10.8	22.18	23.57	31.23	-38.20	44.20	145.95	169.31	0.63	26.20	5.22
11	22.32	23.71	31.13	-38.00	44.82	147.95	171.76	0.64	26.67	5.18
11.2	22.44	23.80	31.01	-37.80	45.62	150.09	172.99	0.64	27.05	5.14
11.4	22.65	24.02	30.96	-37.70	46.63	153.63	177.43	0.65	27.79	5.13
11.6	22.72	24.05	30.84	-37.40	48.24	153.55	177.10	0.64	27.95	5.12
11.8	22.91	24.26	30.78	-37.30	49.80	156.51	182.54	0.66	28.50	5.11
12	22.97	24.27	30.65	-37.10	51.55	155.97	183.16	0.66	28.46	5.10
12.2	23.09	24.37	30.64	-37.00	53.34	158.60	186.35	0.67	28.61	5.10
12.4	23.18	24.44	30.68	-37.10	55.65	160.28	187.45	0.67	28.91	5.10
12.6	23.19	24.39	30.65	-37.10	57.72	160.38	185.73	0.67	28.83	5.08
12.8	23.28	24.48	30.56	-36.90	60.26	163.11	189.28	0.68	28.88	5.08
13	23.16	24.36	30.49	-36.80	63.31	160.04	187.45	0.68	28.32	5.05
13.2	23.13	24.37	30.48	-36.80	67.01	161.79	191.06	0.70	27.85	5.00
13.4	22.95	24.25	30.24	-36.30	70.84	159.46	191.30	0.70	27.09	4.96
13.6	22.78	24.12	30.03	-35.90	72.54	157.03	190.35	0.71	26.38	4.95
13.8	22.65	24.06	29.74	-35.30	71.60	157.36	193.39	0.73	25.66	4.91
14	22.42	23.85	29.47	-34.70	68.59	153.92	190.88	0.73	24.71	4.88
14.2	22.35	23.83	29.17	-34.00	65.18	155.13	194.12	0.74	24.21	4.82
14.4	22.16	23.64	28.85	-33.30	62.54	152.81	192.98	0.75	23.26	4.77
14.6	22.09	23.57	28.51	-32.60	60.81	153.15	195.42	0.76	22.61	4.75
14.8	21.96	23.45	28.23	-32.00	59.56	153.11	197.50	0.78	21.77	4.75
15	21.84	23.29	28.01	-31.50	58.59	152.91	195.55	0.78	21.16	4.71
15.2	21.77	23.21	27.82	-31.10	57.88	154.94	199.89	0.80	20.35	4.67
15.4	21.62	23.01	27.65	-30.80	57.12	153.92	197.28	0.80	19.66	4.67
15.6	21.63	22.98	27.59	-30.70	56.70	154.76	200.47	0.82	19.26	4.65
15.8	21.48	22.80	27.55	-30.60	56.12	153.22	199.36	0.82	18.51	4.65
16	21.43	22.71	27.49	-30.50	55.38	153.28	200.04	0.83	18.04	4.64
16.2	21.30	22.54	27.31	-30.10	54.43	153.04	202.26	0.85	17.14	4.65
16.4	21.10	22.31	27.01	-29.50	53.69	151.83	200.98	0.85	16.27	4.68
16.6	21.04	22.21	26.68	-28.80	53.31	153.04	204.27	0.87	15.61	4.68
16.8	20.88	22.00	26.41	-28.30	53.41	151.81	204.39	0.88	14.77	4.67
17	20.84	21.92	26.15	-27.70	53.51	152.46	205.81	0.89	14.34	4.69

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} = +6 V, I_{DD} = 145 mA @ Temperature = +25°C

FREQ	Gain	Isolation	Input Return Loss	Output Return Loss	Stability	
(GHz)	(dB)	(dB)	(dB)	(dB)	K	Measure
8	22.99	60.06	11.80	8.30	28.33	0.91
8.2	22.90	60.29	12.36	8.79	30.28	0.92
8.4	22.80	60.52	13.01	9.25	32.21	0.92
8.6	22.72	60.84	13.93	9.82	34.66	0.93
8.8	22.66	61.39	15.12	10.45	38.15	0.94
9	22.62	61.97	16.68	11.26	42.05	0.94
9.2	22.59	62.02	18.76	12.31	43.52	0.95
9.4	22.60	62.20	21.49	13.62	45.39	0.96
9.6	22.66	62.49	25.27	15.22	47.44	0.97
9.8	22.73	62.24	30.52	17.15	46.30	0.98
10	22.82	62.38	31.54	19.32	46.95	0.99
10.2	22.92	61.63	26.46	21.25	42.67	0.99
10.4	23.00	61.01	22.89	21.60	39.32	1.00
10.6	23.07	60.32	20.32	20.25	35.77	1.00
10.8	23.12	59.35	18.47	18.40	31.50	1.00
11	23.13	58.58	17.10	16.92	28.45	1.00
11.2	23.12	58.07	16.09	15.82	26.56	1.00
11.4	23.09	57.52	15.34	15.06	24.77	1.00
11.6	23.04	56.24	14.72	14.74	21.33	1.00
11.8	23.01	54.67	14.31	14.56	17.77	1.00
12	22.97	54.46	14.16	14.60	17.40	1.00
12.2	22.92	54.26	14.25	15.01	17.16	1.01
12.4	22.84	54.50	14.55	15.66	17.95	1.01
12.6	22.77	55.24	14.92	16.96	19.92	1.01
12.8	22.71	56.16	15.39	18.71	22.51	1.02
13	22.64	55.12	16.08	20.81	20.35	1.02
13.2	22.56	54.16	17.03	23.24	18.57	1.01
13.4	22.50	53.26	18.31	26.90	16.97	1.01
13.6	22.50	53.59	20.18	28.02	17.74	1.01
13.8	22.41	56.09	22.05	29.55	23.98	1.00
14	22.26	55.81	23.15	30.20	23.65	1.00
14.2	22.13	54.65	23.75	27.08	21.00	1.00
14.4	22.02	53.23	23.51	23.41	18.04	1.00
14.6	21.91	52.01	22.86	20.56	15.78	1.00
14.8	21.91	50.11	21.70	18.35	12.59	0.99
15	22.00	48.41	20.21	17.10	10.18	0.99
15.2	22.02	47.20	19.27	16.64	8.80	0.99
15.4	21.95	46.57	18.52	17.08	8.26	0.99
15.6	21.76	46.08	17.62	17.58	7.98	0.99
15.8	21.47	45.85	16.46	17.88	8.01	1.00
16	21.05	45.95	15.07	17.30	8.40	1.01
16.2	20.46	46.33	13.26	15.26	9.14	1.01
16.4	20.01	45.50	10.96	13.63	8.34	1.03
16.6	19.68	44.14	9.58	12.97	7.12	1.05
16.8	19.14	44.55	8.83	12.07	7.64	1.06
17	18.40	44.90	8.32	11.43	8.37	1.06

Typical Performance Data

NOTE: Use PDF Bookmarks to view DATA at required

TEST CONDITIONS: V_{DD} = +6 V, I_{DD} = 145 mA @ Temperature = +25°C

FREQ	1dB Comp. Output	Psat Output	IP3 Output	IM3 Output	IP2 Output	IDD at P1dB	IDD at PSat	Pdiss at Psat	PAE at Psat	Noise Figure
(GHz)	(dBm)	(dBm)	(dBm)	(dBc)	(dBm)	(mA)	(mA)	(W)	(%)	(dB)
9	22.41	23.93	30.73	-36.73	36.05	166.74	199.47	0.96	20.07	5.89
9.2	22.45	23.95	30.89	-37.07	37.06	164.65	196.94	0.95	20.38	5.80
9.4	22.52	24.03	31.06	-37.49	38.29	163.18	196.41	0.94	20.86	5.69
9.6	22.57	24.05	31.23	-37.94	39.66	159.75	191.59	0.91	21.44	5.58
9.8	22.64	24.12	31.33	-38.24	41.02	157.99	190.28	0.90	21.99	5.51
10	22.77	24.27	31.43	-38.51	42.47	156.78	192.16	0.90	22.53	5.45
10.2	22.85	24.32	31.50	-38.71	43.76	154.64	188.19	0.87	23.28	5.38
10.4	23.02	24.56	31.49	-38.73	44.73	155.81	193.34	0.89	23.97	5.31
10.6	23.12	24.65	31.37	-38.53	45.28	154.45	191.57	0.87	24.68	5.27
10.8	23.28	24.84	31.28	-38.34	45.89	156.47	195.29	0.88	25.31	5.25
11	23.43	25.00	31.13	-38.04	46.44	157.45	197.67	0.89	26.00	5.20
11.2	23.55	25.08	30.94	-37.69	47.15	159.67	197.89	0.88	26.36	5.17
11.4	23.78	25.33	30.85	-37.52	48.13	164.36	203.24	0.89	27.25	5.19
11.6	23.87	25.36	30.73	-37.28	49.75	166.12	202.34	0.89	27.49	5.17
11.8	24.08	25.59	30.67	-37.16	51.37	171.00	209.06	0.91	28.14	5.15
12	24.17	25.64	30.54	-36.91	53.09	170.97	209.41	0.91	28.33	5.14
12.2	24.30	25.73	30.58	-37.01	54.94	173.94	212.95	0.92	28.45	5.14
12.4	24.42	25.83	30.67	-37.18	57.30	176.97	216.01	0.93	28.76	5.12
12.6	24.43	25.76	30.66	-37.17	59.36	178.33	214.17	0.93	28.48	5.11
12.8	24.53	25.87	30.59	-37.02	61.74	182.33	217.48	0.94	28.77	5.09
13	24.43	25.74	30.55	-36.94	64.47	180.09	215.23	0.94	28.16	5.08
13.2	24.41	25.72	30.56	-36.98	67.84	181.30	217.29	0.95	27.80	5.04
13.4	24.27	25.64	30.32	-36.52	70.87	180.07	218.18	0.96	27.16	4.99
13.6	24.10	25.48	30.12	-36.13	71.86	178.47	217.64	0.97	26.20	4.97
13.8	24.00	25.46	29.84	-35.52	71.05	178.85	222.32	1.00	25.61	4.94
14	23.77	25.27	29.55	-34.84	68.64	175.05	222.06	1.02	24.44	4.89
14.2	23.74	25.27	29.23	-34.14	65.81	176.27	227.13	1.05	23.94	4.87
14.4	23.58	25.13	28.90	-33.44	63.56	174.07	229.59	1.07	22.91	4.84
14.6	23.55	25.07	28.55	-32.72	62.05	176.52	232.31	1.09	22.33	4.78
14.8	23.48	24.99	28.25	-32.11	60.94	179.06	238.22	1.13	21.39	4.76
15	23.39	24.83	28.01	-31.60	59.96	178.45	238.86	1.15	20.51	4.75
15.2	23.39	24.74	27.81	-31.15	59.22	183.80	244.04	1.19	19.69	4.73
15.4	23.26	24.53	27.63	-30.78	58.39	181.96	243.55	1.20	18.76	4.70
15.6	23.31	24.47	27.55	-30.64	57.96	184.63	245.14	1.21	18.41	4.68
15.8	23.18	24.29	27.47	-30.48	57.38	182.91	245.03	1.22	17.62	4.66
16	23.12	24.19	27.37	-30.29	56.68	182.87	243.20	1.22	17.31	4.67
16.2	22.97	24.02	27.19	-29.96	55.76	183.56	244.36	1.23	16.53	4.69
16.4	22.74	23.78	26.94	-29.43	55.08	180.86	240.93	1.23	15.78	4.69
16.6	22.66	23.65	26.62	-28.75	54.68	182.79	242.32	1.24	15.20	4.69
16.8	22.47	23.41	26.35	-28.16	54.79	181.76	240.74	1.25	14.42	4.71
17	22.41	23.31	26.10	-27.67	54.91	183.11	240.39	1.25	14.07	4.72

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: V_{DD} = +5 V, I_{DD} = 145 mA @ Temperature = -55°C

FREQ	Gain	Isolation	Input Return Loss	Output Return Loss	Stability	
(GHz)	(dB)	(dB)	(dB)	(dB)	K	Measure
8	28.36	62.53	10.62	8.43	19.90	0.93
8.2	28.31	62.23	10.96	8.74	19.74	0.94
8.4	28.26	62.48	11.44	9.15	20.93	0.94
8.6	28.18	62.03	12.16	9.61	20.61	0.94
8.8	28.13	61.95	12.92	10.22	21.09	0.95
9	28.11	61.59	13.79	10.92	20.81	0.96
9.2	28.03	62.32	15.10	11.88	23.50	0.96
9.4	27.99	62.18	16.61	12.99	23.84	0.97
9.6	28.02	63.90	18.39	14.24	29.52	0.98
9.8	28.07	62.73	19.88	15.68	26.07	0.98
10	28.10	61.65	21.12	17.21	23.19	0.99
10.2	28.21	60.26	20.64	18.47	19.59	0.99
10.4	28.24	60.10	20.03	18.26	19.11	0.99
10.6	28.34	59.76	18.67	17.79	18.10	1.00
10.8	28.46	60.52	17.38	17.17	19.30	1.00
11	28.54	59.72	15.90	16.44	17.26	1.00
11.2	28.52	58.97	14.66	15.36	15.63	1.00
11.4	28.42	57.98	13.71	14.50	13.87	1.01
11.6	28.34	56.46	12.95	14.04	11.62	1.01
11.8	28.31	54.62	12.23	13.51	9.28	1.01
12	28.28	54.60	11.86	13.67	9.25	1.02
12.2	28.27	54.01	11.63	13.87	8.63	1.03
12.4	28.27	53.44	11.78	14.31	8.14	1.03
12.6	28.18	54.40	12.09	15.08	9.28	1.03
12.8	28.09	56.07	12.23	16.75	11.53	1.04
13	28.04	55.56	12.47	18.11	11.04	1.04
13.2	28.02	55.01	13.01	20.37	10.53	1.04
13.4	27.97	54.13	13.82	23.27	9.71	1.03
13.6	27.93	53.48	15.19	27.19	9.20	1.03
13.8	28.04	55.02	17.13	28.88	10.96	1.02
14	27.96	55.14	18.46	24.65	11.26	1.01
14.2	27.82	54.66	20.28	21.19	10.83	1.00
14.4	27.79	53.47	22.09	18.67	9.46	0.99
14.6	27.81	52.82	24.08	16.64	8.71	0.98
14.8	27.82	51.64	25.50	14.84	7.52	0.97
15	28.01	49.67	23.95	13.45	5.79	0.95
15.2	28.37	48.28	22.48	12.66	4.70	0.94
15.4	28.66	47.08	21.51	12.44	3.96	0.94
15.6	28.90	45.85	21.88	12.20	3.35	0.93
15.8	28.87	45.38	23.85	13.10	3.25	0.93
16	28.62	44.90	25.84	14.66	3.22	0.94
16.2	27.83	45.92	20.44	17.50	3.97	0.97
16.4	26.98	47.51	13.15	13.43	4.89	0.99
16.6	26.88	45.89	10.79	12.48	3.95	1.00
16.8	26.69	45.20	9.39	11.87	3.58	1.02
17	26.23	45.03	8.28	11.08	3.49	1.04

FREQ	1dB Comp. Output	Psat Output	IP3 Output	Noise Figure
(GHz)	(dBm)	(dBm)	(dBm)	(dB)
9	20.47	22.47	30.23	5.03
9.2	20.44	22.53	30.33	4.95
9.4	20.42	22.64	30.62	4.89
9.6	20.34	22.66	30.98	4.80
9.8	20.35	22.69	31.28	4.73
10	20.32	22.70	31.51	4.66
10.2	20.34	22.69	31.71	4.60
10.4	20.38	22.87	31.87	4.54
10.6	20.41	22.90	31.98	4.48
10.8	20.49	23.09	32.08	4.44
11	20.59	23.27	32.16	4.38
11.2	20.65	23.38	32.22	4.35
11.4	20.80	23.74	32.38	4.34
11.6	20.82	23.80	32.54	4.29
11.8	20.91	24.14	32.79	4.28
12	20.94	24.19	32.91	4.27
12.2	20.94	24.32	33.17	4.26
12.4	20.99	24.48	33.40	4.24
12.6	20.99	24.42	33.51	4.23
12.8	21.03	24.45	33.56	4.21
13	21.04	24.29	33.60	4.20
13.2	21.05	24.08	33.65	4.19
13.4	21.05	23.79	33.41	4.15
13.6	20.98	23.70	33.24	4.13
13.8	20.92	23.35	32.94	4.09
14	20.82	23.44	32.71	4.06
14.2	20.76	23.20	32.42	4.01
14.4	20.68	23.29	32.14	4.01
14.6	20.57	23.27	31.83	3.98
14.8	20.51	23.30	31.57	3.94
15	20.35	23.24	31.37	3.92
15.2	20.22	23.16	31.12	3.89
15.4	20.08	22.95	30.80	3.85
15.6	19.97	22.90	30.56	3.82
15.8	19.94	22.73	30.43	3.82
16	19.92	22.70	30.44	3.84
16.2	19.90	22.58	30.43	3.85
16.4	19.83	22.38	30.40	3.85
16.6	19.82	22.29	30.40	3.85
16.8	19.70	22.05	30.48	3.85
17	19.66	21.99	30.51	3.85

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: V_{DD} = +5 V, I_{DD} = 145 mA @ Temperature = +105°C

FREQ	Gain	Isolation	Input Return Loss	Output Return Loss	Stability	
(GHz)	(dB)	(dB)	(dB)	(dB)	K	Measure
8	21.11	60.79	11.73	8.74	38.91	0.93
8.2	21.00	60.66	12.31	9.21	39.83	0.93
8.4	20.89	60.97	13.06	9.73	42.88	0.94
8.6	20.81	61.02	14.00	10.37	44.71	0.94
8.8	20.76	61.41	15.17	11.19	48.32	0.95
9	20.71	62.82	16.74	12.11	58.55	0.96
9.2	20.68	61.77	18.54	13.34	53.34	0.97
9.4	20.69	61.54	20.72	14.87	52.91	0.98
9.6	20.74	62.42	23.27	16.69	59.13	0.98
9.8	20.78	62.03	25.06	18.72	56.79	0.99
10	20.86	62.41	24.85	20.44	59.10	0.99
10.2	20.89	58.67	22.27	20.45	38.17	1.00
10.4	20.93	58.81	20.41	18.92	38.35	1.00
10.6	20.97	58.36	18.76	17.47	35.90	0.99
10.8	21.03	58.95	17.39	16.16	37.72	0.99
11	21.02	58.59	16.22	15.07	35.71	0.99
11.2	20.95	58.13	15.29	14.14	33.70	0.99
11.4	20.87	57.59	14.57	13.61	31.63	0.99
11.6	20.81	56.30	14.07	13.39	27.25	0.99
11.8	20.75	55.38	13.83	13.34	24.58	0.99
12	20.69	55.15	13.80	13.82	24.23	1.00
12.2	20.62	54.95	14.00	14.33	24.04	1.00
12.4	20.53	54.35	14.35	15.20	22.92	1.01
12.6	20.42	54.97	14.84	16.38	25.23	1.01
12.8	20.30	56.36	15.38	18.11	30.34	1.01
13	20.22	56.27	16.05	19.90	30.64	1.01
13.2	20.15	55.65	17.10	22.74	29.04	1.01
13.4	20.07	54.89	18.54	25.57	27.06	1.01
13.6	20.03	54.48	20.47	28.08	26.13	1.01
13.8	19.98	56.66	22.49	30.32	33.90	1.00
14	19.88	56.20	24.53	32.12	32.63	1.00
14.2	19.77	54.15	27.59	27.42	26.08	1.00
14.4	19.72	52.91	31.70	24.45	22.73	1.00
14.6	19.69	52.31	32.67	21.35	21.22	0.99
14.8	19.69	50.67	29.67	19.81	17.53	0.99
15	19.78	48.44	25.66	18.30	13.34	0.99
15.2	19.84	47.33	23.19	17.92	11.62	0.99
15.4	19.79	46.07	21.33	17.52	10.07	0.99
15.6	19.62	45.19	20.11	17.65	9.27	0.99
15.8	19.32	45.29	18.42	17.43	9.67	0.99
16	18.81	44.82	17.00	16.41	9.62	0.99
16.2	18.18	44.95	14.49	14.95	10.21	1.00
16.4	17.86	45.17	12.00	13.32	10.41	1.01
16.6	17.39	45.16	11.07	12.51	10.70	1.01
16.8	16.69	44.57	10.52	11.95	10.61	1.02
17	15.93	44.82	9.95	11.36	11.62	1.02

FREQ	1dB Comp. Output	Psat Output	IP3 Output	Noise Figure
(GHz)	(dBm)	(dBm)	(dBm)	(dB)
9	20.30	22.12	28.45	7.20
9.2	20.37	22.19	28.58	7.10
9.4	20.50	22.33	28.86	7.03
9.6	20.64	22.43	29.23	6.93
9.8	20.79	22.54	29.48	6.86
10	20.99	22.70	29.70	6.84
10.2	21.14	22.78	29.84	6.79
10.4	21.34	22.96	29.91	6.74
10.6	21.47	23.04	29.94	6.70
10.8	21.61	23.17	29.95	6.67
11	21.74	23.29	29.88	6.66
11.2	21.84	23.36	29.79	6.64
11.4	21.88	23.51	29.86	6.62
11.6	21.96	23.54	29.98	6.58
11.8	21.84	23.65	30.09	6.57
12	21.94	23.67	30.08	6.56
12.2	21.86	23.70	30.17	6.57
12.4	21.86	23.72	30.21	6.56
12.6	21.92	23.65	30.06	6.55
12.8	21.76	23.65	29.90	6.52
13	21.75	23.51	29.79	6.49
13.2	21.54	23.42	29.55	6.46
13.4	21.32	23.26	29.05	6.43
13.6	21.07	23.10	28.58	6.40
13.8	20.80	22.99	28.09	6.37
14	20.54	22.81	27.71	6.33
14.2	20.35	22.75	27.34	6.28
14.4	20.16	22.58	26.97	6.26
14.6	20.06	22.51	26.66	6.23
14.8	19.99	22.41	26.45	6.22
15	19.98	22.30	26.34	6.21
15.2	20.05	22.31	26.23	6.20
15.4	20.07	22.15	26.18	6.17
15.6	20.20	22.20	26.23	6.15
15.8	20.17	22.03	26.20	6.18
16	20.18	21.96	26.14	6.21
16.2	20.10	21.84	25.89	6.22
16.4	19.97	21.67	25.55	6.23
16.6	19.92	21.63	25.18	6.25
16.8	19.75	21.44	24.91	6.28
17	19.67	21.37	24.59	6.32

Typical Performance Data

TEST CONDITIONS: V_{DD} = +5 V, I_{DD} = 145 mA @ Temperature = +25°C

FREQ	OIP3 @ +6 dBm/Tone	OIP3 @ +9 dBm/Tone	OIP3 @ +12 dBm/Tone	OIP3 @ +15 dBm/Tone	OIP3 @ +18 dBm/Tone
(GHz)	(dBm)	(dBm)	(dBm)	(dBm)	(dBm)
9	29.66	30.19	31.04	28.61	25.19
9.2	29.89	30.37	31.20	28.78	25.26
9.4	30.18	30.60	31.25	29.48	25.72
9.6	30.44	30.80	31.29	30.35	26.27
9.8	30.60	30.92	31.31	30.91	26.72
10	30.75	31.00	31.38	31.27	26.99
10.2	30.85	31.08	31.42	31.55	27.19
10.4	30.88	31.09	31.41	31.65	27.26
10.6	30.83	31.00	31.31	31.63	27.40
10.8	30.76	30.94	31.23	31.58	27.55
11	30.66	30.85	31.13	31.44	27.57
11.2	30.56	30.72	31.01	31.22	27.66
11.4	30.51	30.66	30.96	31.22	27.81
11.6	30.39	30.54	30.84	31.24	28.04
11.8	30.33	30.46	30.78	31.35	28.09
12	30.22	30.34	30.65	31.24	28.29
12.2	30.21	30.33	30.64	31.42	28.35
12.4	30.24	30.36	30.68	31.60	28.29
12.6	30.21	30.32	30.65	31.58	28.28
12.8	30.09	30.21	30.56	31.52	28.31
13	29.98	30.11	30.49	31.56	28.27
13.2	29.92	30.06	30.48	31.62	28.03
13.4	29.60	29.78	30.24	31.22	27.90
13.6	29.33	29.54	30.03	30.90	27.53
13.8	29.00	29.22	29.74	30.49	27.19
14	28.72	28.95	29.47	30.12	27.12
14.2	28.41	28.65	29.17	29.72	26.96
14.4	28.09	28.35	28.85	29.29	26.76
14.6	27.78	28.02	28.51	28.87	26.55
14.8	27.52	27.76	28.23	28.53	26.37
15	27.32	27.57	28.01	28.25	26.26
15.2	27.16	27.38	27.82	27.98	25.97
15.4	27.02	27.22	27.65	27.75	25.74
15.6	27.00	27.19	27.59	27.65	25.58
15.8	26.96	27.15	27.55	27.47	25.32
16	26.88	27.09	27.49	27.27	25.11
16.2	26.65	26.89	27.31	26.76	24.77
16.4	26.32	26.55	27.01	26.03	24.47
16.6	25.91	26.15	26.68	25.33	24.40
16.8	25.54	25.80	26.41	25.13	24.72
17	25.23	25.48	26.15	24.93	24.81
P_{OUT}/Tone (dBm)	@9 GHz	@10 GHz	@12 GHz	@14 GHz	@16 GHz
6	29.66	30.75	30.22	28.72	26.88
9	30.19	31.00	30.34	28.95	27.09
12	31.04	31.38	30.65	29.47	27.49
15	28.61	31.27	31.24	30.12	27.27
18	25.19	26.99	28.29	27.12	25.11

Typical Performance Data

TEST CONDITIONS: V_{DD} = +5 V, I_{DD} = 125 mA, 145 mA, 165 mA @ Temperature = +25°C

FREQ	Gain @ 125 mA	Gain @ 145 mA	Gain @ 165 mA
(GHz)	(dB)	(dB)	(dB)
8	23.15	23.89	24.20
8.2	23.08	23.78	24.12
8.4	23.00	23.69	24.04
8.6	22.92	23.59	23.97
8.8	22.87	23.53	23.92
9	22.84	23.51	23.88
9.2	22.80	23.46	23.83
9.4	22.80	23.45	23.84
9.6	22.86	23.51	23.89
9.8	22.91	23.58	23.95
10	22.98	23.65	24.02
10.2	23.07	23.73	24.12
10.4	23.14	23.78	24.19
10.6	23.20	23.86	24.26
10.8	23.23	23.96	24.29
11	23.23	23.99	24.30
11.2	23.22	23.95	24.28
11.4	23.18	23.88	24.24
11.6	23.14	23.81	24.19
11.8	23.11	23.78	24.16
12	23.07	23.74	24.12
12.2	23.03	23.69	24.08
12.4	22.95	23.64	24.00
12.6	22.89	23.55	23.93
12.8	22.84	23.45	23.89
13	22.78	23.38	23.82
13.2	22.70	23.35	23.74
13.4	22.65	23.28	23.70
13.6	22.66	23.24	23.72
13.8	22.59	23.25	23.65
14	22.45	23.13	23.50
14.2	22.33	23.00	23.38
14.4	22.23	22.94	23.27
14.6	22.13	22.90	23.17
14.8	22.16	22.84	23.20
15	22.27	22.90	23.33
15.2	22.34	22.99	23.39
15.4	22.31	22.99	23.34
15.6	22.16	22.88	23.16
15.8	21.89	22.60	22.85
16	21.46	22.19	22.39
16.2	20.82	21.50	21.73
16.4	20.30	21.03	21.23
16.6	19.92	20.82	20.89
16.8	19.32	20.29	20.34
17	18.54	19.61	19.60

FREQ	1dB Comp. Output @ 125 mA	1dB Comp. Output @ 145 mA	1dB Comp. Output @ 165 mA	Saturation Output @ 125 mA	Saturation Output @ 145 mA	Saturation Output @ 165 mA
(GHz)	(dBm)	(dBm)	(dBm)	(dBm)	(dBm)	(dBm)
9	20.74	21.22	21.88	22.75	22.69	23.27
9.2	20.77	21.27	21.94	22.80	22.73	23.32
9.4	20.85	21.38	22.09	22.94	22.85	23.49
9.6	20.93	21.43	22.16	23.01	22.88	23.55
9.8	21.04	21.52	22.29	23.14	22.98	23.69
10	21.22	21.67	22.49	23.33	23.11	23.88
10.2	21.36	21.74	22.58	23.39	23.14	23.93
10.4	21.57	21.94	22.83	23.61	23.34	24.17
10.6	21.71	22.01	22.91	23.66	23.38	24.21
10.8	21.88	22.18	23.11	23.83	23.57	24.40
11	22.04	22.32	23.25	23.95	23.71	24.52
11.2	22.20	22.44	23.37	24.03	23.80	24.59
11.4	22.43	22.65	23.60	24.25	24.02	24.78
11.6	22.57	22.72	23.66	24.29	24.05	24.78
11.8	22.79	22.91	23.88	24.49	24.26	24.96
12	22.86	22.97	23.90	24.51	24.27	24.93
12.2	23.00	23.09	24.02	24.62	24.37	25.01
12.4	23.06	23.18	24.09	24.68	24.44	25.05
12.6	23.04	23.19	24.08	24.65	24.39	25.00
12.8	23.07	23.28	24.17	24.75	24.48	25.09
13	22.88	23.16	24.04	24.65	24.36	24.99
13.2	22.79	23.13	24.05	24.70	24.37	25.03
13.4	22.52	22.95	23.89	24.61	24.25	24.94
13.6	22.26	22.78	23.73	24.51	24.12	24.84
13.8	22.04	22.65	23.61	24.45	24.06	24.80
14	21.72	22.42	23.35	24.23	23.85	24.58
14.2	21.57	22.35	23.26	24.18	23.83	24.53
14.4	21.30	22.16	22.99	23.95	23.64	24.28
14.6	21.19	22.09	22.86	23.82	23.57	24.15
14.8	21.08	21.96	22.68	23.64	23.45	23.97
15	20.97	21.84	22.48	23.41	23.29	23.74
15.2	20.98	21.77	22.40	23.30	23.21	23.63
15.4	20.86	21.62	22.16	23.02	23.01	23.35
15.6	20.91	21.63	22.13	22.96	22.98	23.28
15.8	20.80	21.48	21.90	22.74	22.80	23.02
16	20.76	21.43	21.76	22.60	22.71	22.86
16.2	20.67	21.30	21.57	22.44	22.54	22.67
16.4	20.52	21.10	21.33	22.22	22.31	22.42
16.6	20.55	21.04	21.29	22.17	22.21	22.36
16.8	20.50	20.88	21.17	22.04	22.00	22.20
17	20.53	20.84	21.17	22.02	21.92	22.17

Typical Performance Data

TEST CONDITIONS: V_{DD} = +5 V, I_{DD} = 125 mA, 145 mA, 165 mA @ Temperature = +25°C

FREQ	OIP3 @ 125 mA	OIP3 @ 145 mA	OIP3 @ 165 mA	IM3 @ 125 mA	IM3 @ 145 mA	IM3 @ 165 mA	Noise Figure @ 125 mA	Noise Figure @ 145 mA	Noise Figure @ 165 mA
(GHz)	(dBm)	(dBm)	(dBm)	(dBc)	(dBc)	(dBc)	(dB)	(dB)	(dB)
9	30.13	31.04	31.14	-35.53	-37.30	-37.59	5.85	5.87	5.92
9.2	30.30	31.20	31.30	-35.89	-37.70	-37.92	5.74	5.78	5.82
9.4	30.41	31.25	31.28	-36.15	-37.80	-37.95	5.65	5.68	5.72
9.6	30.57	31.29	31.25	-36.56	-38.00	-38.00	5.56	5.58	5.64
9.8	30.69	31.31	31.27	-36.91	-38.20	-38.12	5.47	5.48	5.54
10	30.87	31.38	31.33	-37.36	-38.40	-38.33	5.39	5.43	5.47
10.2	30.97	31.42	31.36	-37.63	-38.50	-38.45	5.33	5.37	5.40
10.4	31.03	31.41	31.35	-37.77	-38.50	-38.48	5.27	5.30	5.33
10.6	30.95	31.31	31.26	-37.65	-38.30	-38.34	5.22	5.24	5.30
10.8	30.89	31.23	31.18	-37.56	-38.20	-38.21	5.20	5.22	5.28
11	30.76	31.13	31.07	-37.29	-38.00	-37.99	5.17	5.18	5.24
11.2	30.58	31.01	30.92	-36.93	-37.80	-37.73	5.15	5.14	5.21
11.4	30.53	30.96	30.83	-36.81	-37.70	-37.55	5.12	5.13	5.20
11.6	30.44	30.84	30.70	-36.63	-37.40	-37.28	5.11	5.12	5.18
11.8	30.44	30.78	30.62	-36.61	-37.30	-37.11	5.09	5.11	5.17
12	30.34	30.65	30.49	-36.40	-37.10	-36.89	5.10	5.10	5.18
12.2	30.43	30.64	30.46	-36.59	-37.00	-36.83	5.09	5.10	5.17
12.4	30.57	30.68	30.46	-36.87	-37.10	-36.86	5.07	5.10	5.15
12.6	30.58	30.65	30.42	-36.91	-37.10	-36.77	5.05	5.08	5.14
12.8	30.50	30.56	30.33	-36.77	-36.90	-36.58	5.05	5.08	5.12
13	30.46	30.49	30.23	-36.69	-36.80	-36.40	5.02	5.05	5.11
13.2	30.46	30.48	30.19	-36.66	-36.80	-36.32	4.99	5.00	5.09
13.4	30.14	30.24	29.99	-36.04	-36.30	-35.95	4.96	4.96	5.05
13.6	29.83	30.03	29.83	-35.46	-35.90	-35.62	4.93	4.95	5.01
13.8	29.42	29.74	29.61	-34.63	-35.30	-35.13	4.87	4.91	4.99
14	29.03	29.47	29.41	-33.72	-34.70	-34.61	4.83	4.88	4.95
14.2	28.61	29.17	29.17	-32.81	-34.00	-34.08	4.79	4.82	4.89
14.4	28.19	28.85	28.92	-31.91	-33.30	-33.56	4.75	4.77	4.85
14.6	27.79	28.51	28.64	-31.08	-32.60	-32.98	4.71	4.75	4.82
14.8	27.46	28.23	28.39	-30.42	-32.00	-32.45	4.69	4.75	4.80
15	27.23	28.01	28.17	-29.98	-31.50	-31.99	4.67	4.71	4.79
15.2	27.02	27.82	28.00	-29.54	-31.10	-31.59	4.63	4.67	4.76
15.4	26.87	27.65	27.84	-29.24	-30.80	-31.27	4.62	4.67	4.74
15.6	26.81	27.59	27.76	-29.10	-30.70	-31.13	4.60	4.65	4.71
15.8	26.72	27.55	27.72	-28.90	-30.60	-31.03	4.58	4.65	4.71
16	26.63	27.49	27.67	-28.72	-30.50	-30.99	4.60	4.64	4.72
16.2	26.45	27.31	27.58	-28.39	-30.10	-30.82	4.60	4.65	4.73
16.4	26.19	27.01	27.45	-27.88	-29.50	-30.52	4.61	4.68	4.71
16.6	25.86	26.68	27.24	-27.18	-28.80	-30.04	4.62	4.68	4.73
16.8	25.59	26.41	27.02	-26.57	-28.30	-29.58	4.63	4.67	4.75
17	25.32	26.15	26.82	-26.01	-27.70	-29.20	4.65	4.69	4.75

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: V_{DD} = +5 V, I_{DD} = 145 mA @ Temperature = +25°C

P_{IN}	P_{OUT} (@10 GHz)	Gain (@10 GHz)	I_{DD} (@10 GHz)	P_{Diss} (@10 GHz)	P_{IN}	P_{OUT} (@11.3 GHz)	Gain (@11.3 GHz)	I_{DD} (@11.3 GHz)	P_{Diss} (@11.3 GHz)	P_{IN}	P_{OUT} (@12.7 GHz)	Gain (@12.7 GHz)	I_{DD} (@12.7 GHz)	P_{Diss} (@12.7 GHz)
(dBm)	(dBm)	(dB)	(mA)	(W)	(dBm)	(dBm)	(dB)	(mA)	(W)	(dBm)	(dBm)	(dB)	(mA)	(W)
-15.41	7.79	23.20	141.89	0.70	-15.43	8.06	23.49	142.37	0.71	-15.32	7.83	23.14	142.08	0.70
-14.43	8.71	23.14	141.48	0.70	-14.46	9.01	23.46	141.89	0.70	-14.33	8.77	23.11	141.69	0.70
-13.45	9.70	23.14	141.00	0.70	-13.47	10.01	23.47	141.76	0.70	-13.34	9.78	23.11	141.58	0.70
-12.45	10.69	23.14	140.52	0.69	-12.47	11.02	23.49	141.43	0.69	-12.34	10.79	23.13	141.37	0.69
-11.45	11.71	23.16	140.52	0.69	-11.48	12.04	23.51	141.28	0.69	-11.34	11.82	23.16	141.37	0.69
-10.45	12.74	23.19	140.17	0.68	-10.48	13.07	23.54	141.32	0.69	-10.36	12.83	23.19	141.46	0.69
-9.47	13.75	23.22	139.89	0.68	-9.50	14.08	23.58	141.28	0.68	-9.37	13.86	23.23	141.65	0.68
-8.49	14.76	23.25	139.74	0.67	-8.52	15.10	23.62	140.58	0.67	-8.38	14.90	23.28	141.37	0.68
-7.50	15.78	23.28	139.63	0.66	-7.53	16.13	23.66	140.41	0.66	-7.38	15.96	23.34	140.98	0.67
-6.52	16.80	23.32	139.39	0.65	-6.54	17.17	23.70	140.13	0.65	-6.38	17.02	23.40	140.89	0.65
-5.52	17.82	23.34	139.39	0.64	-5.54	18.20	23.73	140.02	0.63	-5.38	18.07	23.45	140.98	0.64
-4.52	18.79	23.31	139.61	0.62	-4.54	19.20	23.74	140.22	0.62	-4.37	19.10	23.47	141.24	0.63
-3.52	19.68	23.20	139.50	0.61	-3.53	20.14	23.68	140.76	0.60	-3.36	20.08	23.45	142.08	0.61
-2.52	20.43	22.94	139.33	0.59	-2.53	20.97	23.49	141.48	0.58	-2.35	20.97	23.32	143.72	0.59
-1.51	21.02	22.53	139.91	0.57	-1.52	21.62	23.14	143.09	0.57	-1.34	21.71	23.05	146.08	0.58
-0.50	21.48	21.98	140.91	0.56	-0.51	22.14	22.65	145.48	0.56	-0.33	22.31	22.65	149.69	0.58
0.52	21.85	21.33	142.74	0.56	0.50	22.57	22.06	148.32	0.56	0.67	22.80	22.13	153.75	0.58
1.52	22.16	20.63	145.60	0.57	1.50	22.91	21.40	152.15	0.57	1.67	23.20	21.53	158.36	0.58
2.52	22.42	19.90	149.43	0.57	2.50	23.18	20.68	156.32	0.58	2.66	23.51	20.85	163.42	0.59
3.52	22.64	19.12	153.93	0.59	3.49	23.40	19.91	161.21	0.59	3.68	23.76	20.08	168.87	0.61
4.51	22.83	18.33	159.40	0.61	4.47	23.59	19.12	166.37	0.61	4.71	23.97	19.26	174.09	0.62
5.50	23.02	17.52	165.57	0.63	5.49	23.76	18.27	171.76	0.62	5.73	24.13	18.40	179.52	0.64
6.51	23.21	16.70	172.79	0.66	6.50	23.91	17.41	177.82	0.65	6.75	24.27	17.52	185.19	0.66
7.53	23.39	15.86	180.63	0.69	7.52	24.05	16.53	184.11	0.67	7.76	24.39	16.63	190.78	0.69
8.54	23.56	15.02	187.21	0.72	8.53	24.18	15.65	189.12	0.69	8.78	24.49	15.71	195.06	0.70
9.55	23.70	14.15	192.36	0.74	9.54	24.29	14.75	192.97	0.71	9.80	24.56	14.77	198.32	0.72

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: V_{DD} = +5 V, I_{DD} = 145 mA @ Temperature = +25°C

P_{IN}	P_{OUT} (@14 GHz)	Gain (@14 GHz)	I_{DD} (@14 GHz)	P_{Diss} (@14 GHz)	P_{IN}	P_{OUT} (@15.35 GHz)	Gain (@15.35 GHz)	I_{DD} (@15.35 GHz)	P_{Diss} (@15.35 GHz)
(dBm)	(dBm)	(dB)	(mA)	(W)	(dBm)	(dBm)	(dB)	(mA)	(W)
-15.57	7.19	22.77	143.47	0.71	-15.56	6.62	22.18	142.19	0.71
-14.60	8.05	22.65	143.17	0.71	-14.59	7.41	22.00	142.13	0.71
-13.60	9.02	22.62	142.71	0.71	-13.59	8.42	22.01	142.26	0.70
-12.60	10.04	22.63	142.35	0.70	-12.59	9.45	22.04	142.19	0.70
-11.59	11.06	22.66	142.24	0.70	-11.59	10.47	22.07	142.11	0.70
-10.61	12.07	22.68	142.39	0.70	-10.61	11.50	22.11	142.34	0.70
-9.62	13.09	22.72	142.32	0.69	-9.62	12.55	22.17	142.17	0.69
-8.63	14.13	22.76	142.34	0.69	-8.63	13.60	22.23	141.67	0.69
-7.64	15.17	22.81	142.08	0.68	-7.63	14.68	22.31	141.69	0.68
-6.64	16.23	22.87	141.89	0.67	-6.63	15.76	22.39	141.48	0.67
-5.63	17.29	22.92	141.58	0.65	-5.62	16.84	22.46	141.76	0.66
-4.62	18.33	22.95	141.93	0.64	-4.61	17.89	22.51	142.52	0.65
-3.61	19.33	22.94	142.67	0.63	-3.61	18.88	22.48	143.98	0.64
-2.61	20.25	22.85	144.47	0.62	-2.60	19.75	22.35	145.76	0.63
-1.60	21.04	22.64	147.04	0.61	-1.60	20.46	22.05	148.80	0.63
-0.59	21.66	22.25	150.77	0.61	-0.60	21.00	21.60	153.08	0.64
0.41	22.14	21.74	155.19	0.61	0.39	21.43	21.04	158.79	0.66
1.40	22.55	21.15	160.64	0.62	1.38	21.81	20.43	165.99	0.68
2.39	22.90	20.51	166.81	0.64	2.37	22.17	19.80	174.68	0.71
3.40	23.22	19.81	173.46	0.66	3.39	22.50	19.11	184.04	0.74
4.44	23.50	19.06	180.93	0.68	4.41	22.78	18.36	193.32	0.78
5.46	23.74	18.28	188.89	0.71	5.42	23.00	17.58	202.22	0.82
6.48	23.96	17.49	196.40	0.74	6.42	23.16	16.74	210.29	0.85
7.48	24.14	16.65	203.25	0.76	7.41	23.27	15.87	216.72	0.88
8.48	24.23	15.75	208.59	0.79	8.39	23.33	14.94	221.45	0.90
9.48	24.26	14.78	212.11	0.80	9.37	23.32	13.95	224.60	0.92