

## 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 = 559.85mA @ Temperature = +25°C

Note\*: V+ = Vd + 1

FREQ	Gain	Isolation	Input Return Loss	Output Return Loss	Stability		IP-3 Output	1dB Comp. Output	Noise Figure
					K	Measure			
(GHz)	(dB)	(dB)	(dB)	(dB)	K	Measure	(dBm)	(dBm)	(dB)
12.0	12.72	54.58	16.01	4.69	39.78	0.68	26.79	17.44	10.15
12.2	13.07	53.16	16.04	5.11	34.00	0.71	27.98	18.33	10.11
12.4	13.30	53.67	16.02	5.63	36.90	0.75	27.51	18.98	10.10
12.6	13.36	51.77	16.04	6.20	30.90	0.78	29.19	19.59	9.93
12.8	13.44	52.13	16.15	6.77	33.20	0.81	29.36	20.06	9.90
13.0	13.43	52.70	16.37	7.45	36.87	0.84	30.39	20.81	9.88
13.2	13.45	52.68	17.13	8.33	38.35	0.87	30.96	21.30	9.85
13.4	13.45	54.41	17.41	9.12	48.15	0.89	30.88	21.76	9.77
13.6	13.45	55.25	16.76	9.97	54.19	0.92	32.02	21.86	9.73
13.8	13.46	55.07	17.11	11.09	54.37	0.94	32.10	22.33	9.58
14.0	13.49	55.69	17.22	12.26	59.41	0.96	32.72	22.52	9.60
14.5	13.71	56.28	17.75	15.69	64.30	0.99	33.26	23.84	9.32
15.0	13.98	59.89	18.49	19.48	96.14	1.00	33.42	24.49	9.32
15.5	14.40	58.48	18.33	23.62	78.44	1.01	34.04	24.81	9.11
16.0	14.75	61.96	18.27	30.02	112.85	1.01	34.12	25.31	8.79
17.0	15.22	58.52	20.64	23.55	72.13	1.00	34.29	25.44	8.60
17.5	15.35	70.47	26.11	16.52	278.30	0.98	33.86	24.91	8.74
18.0	15.90	62.60	27.86	15.17	104.70	0.97	33.65	26.32	8.60
18.5	15.98	55.90	19.29	13.23	46.67	0.96	33.15	25.76	8.33
19.0	15.59	54.22	15.10	14.72	39.94	1.00	32.52	25.70	8.33
19.5	15.91	60.12	11.85	15.49	73.76	1.03	32.44	25.81	8.31
20.0	15.76	60.57	10.28	14.34	75.97	1.05	32.31	25.86	8.61
20.5	15.11	61.80	8.26	15.09	88.97	1.11	32.16	25.86	8.88
21.0	14.67	63.20	7.61	14.54	106.42	1.13	31.47	25.86	8.91
21.5	14.29	61.82	7.00	14.32	91.82	1.15	31.16	25.86	8.96
22.0	14.11	60.36	6.96	12.62	77.66	1.13	30.85	25.35	8.80
22.5	13.95	61.27	6.81	11.78	85.89	1.13	31.27	25.49	8.49
23.0	14.02	59.64	7.28	11.91	72.64	1.11	31.83	25.63	8.28
23.5	14.07	53.01	7.82	11.95	34.52	1.09	31.05	25.56	8.04
24.0	14.58	50.66	9.55	11.74	26.35	1.04	30.89	24.97	7.71
24.5	15.05	45.23	11.31	13.16	14.19	1.02	30.78	25.24	7.17
25.0	15.28	42.81	12.05	13.37	10.71	1.01	30.46	24.50	7.08
25.4	14.74	39.99	13.79	11.77	8.26	0.96	31.25	25.06	6.81
25.6	14.36	41.38	14.44	11.63	10.14	0.96	30.61	25.21	6.82
25.8	14.23	41.70	15.79	11.37	10.74	0.95	31.01	24.91	6.96
26.0	14.05	40.65	15.13	10.65	9.54	0.93	31.18	24.45	6.87
26.2	14.13	42.25	14.93	10.83	11.37	0.94	31.35	24.61	6.89
26.4	14.30	40.80	12.65	10.43	9.17	0.95	31.15	24.16	7.27
26.5	14.26	41.20	11.39	10.28	9.43	0.96	31.11	24.16	7.14

## 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 = 525.06mA @ Temperature = +25°C

Note\*: V+ = Vd + 1

FREQ	Gain	Isolation	Input Return Loss	Output Return Loss	Stability		IP-3 Output	1dB Comp. Output	Noise Figure
					K	Measure			
(GHz)	(dB)	(dB)	(dB)	(dB)	K	Measure	(dBm)	(dBm)	(dB)
12.0	12.95	54.72	16.04	4.71	39.46	0.68	27.34	16.77	10.06
12.2	13.31	53.16	16.08	5.14	33.18	0.71	28.50	17.67	9.97
12.4	13.54	53.78	16.03	5.64	36.40	0.75	28.04	18.33	9.95
12.6	13.61	52.08	16.01	6.19	31.08	0.78	29.86	18.98	9.88
12.8	13.67	52.27	16.13	6.77	32.80	0.81	29.96	19.44	9.80
13.0	13.66	53.01	16.40	7.44	37.22	0.84	30.97	20.21	9.80
13.2	13.68	53.28	17.16	8.31	40.01	0.87	31.66	20.70	9.77
13.4	13.67	54.58	17.45	9.09	47.89	0.89	31.64	21.18	9.66
13.6	13.65	55.69	16.77	9.92	55.62	0.92	32.84	21.25	9.61
13.8	13.66	55.23	17.17	11.05	54.19	0.94	32.72	21.76	9.44
14.0	13.68	55.70	17.29	12.19	58.19	0.96	33.57	21.93	9.41
14.5	13.88	56.05	17.71	15.57	61.38	0.99	34.01	23.28	9.29
15.0	14.15	58.42	18.45	19.25	79.65	1.00	34.21	23.89	9.16
15.5	14.52	58.98	18.27	23.52	81.87	1.01	34.62	24.19	8.98
16.0	14.87	60.85	18.35	29.92	97.97	1.01	34.44	24.67	8.72
17.0	15.28	56.04	20.65	23.90	53.88	1.00	33.95	24.83	8.53
17.5	15.41	71.69	26.07	16.56	317.65	0.98	34.46	24.22	8.59
18.0	15.93	63.91	27.77	15.30	121.33	0.97	34.02	25.67	8.42
18.5	16.00	56.25	19.30	13.31	48.49	0.96	33.32	25.15	8.18
19.0	15.58	54.83	15.16	14.88	42.98	1.00	32.94	24.93	8.23
19.5	15.88	58.95	11.85	15.53	64.71	1.03	32.50	25.03	8.20
20.0	15.72	61.61	10.24	14.25	85.80	1.05	32.78	25.15	8.51
20.5	15.05	61.19	8.29	14.88	83.45	1.11	32.14	25.17	8.64
21.0	14.61	63.14	7.64	14.37	106.45	1.13	31.57	25.14	8.74
21.5	14.24	60.93	7.03	14.15	83.38	1.15	31.57	25.02	8.74
22.0	14.09	61.29	6.99	12.64	86.76	1.13	31.24	24.43	8.62
22.5	13.94	61.25	6.83	11.84	86.00	1.13	31.84	24.63	8.31
23.0	14.01	58.50	7.24	11.96	63.66	1.11	32.13	24.83	8.10
23.5	14.07	52.89	7.85	12.06	34.17	1.09	31.40	24.80	7.86
24.0	14.58	51.08	9.53	11.87	27.69	1.04	31.60	24.20	7.51
24.5	15.09	45.28	11.38	13.21	14.24	1.02	30.86	24.47	7.13
25.0	15.34	42.96	12.08	13.41	10.82	1.01	30.74	23.72	6.95
25.4	14.95	39.89	13.86	12.16	8.03	0.97	31.50	24.31	6.73
25.6	14.44	41.92	14.62	11.73	10.72	0.96	31.15	24.48	6.73
25.8	14.35	41.98	15.93	11.56	10.97	0.95	31.50	24.17	6.85
26.0	14.02	40.49	14.83	10.62	9.38	0.94	31.65	23.74	6.84
26.2	14.29	42.84	15.23	10.99	12.01	0.94	31.83	23.87	6.89
26.4	14.24	40.83	12.57	10.40	9.25	0.95	31.72	23.44	7.12
26.5	14.27	41.06	11.53	10.29	9.30	0.96	31.35	23.41	7.09

## 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 = 597.91mA @ Temperature = +25°C

Note\*: V+ = Vd + 1

FREQ	Gain	Isolation	Input Return Loss	Output Return Loss	Stability		IP-3 Output	1dB Comp. Output	Noise Figure
					K	Measure			
(GHz)	(dB)	(dB)	(dB)	(dB)	K	Measure	(dBm)	(dBm)	(dB)
12.0	12.29	54.45	16.02	4.70	41.24	0.68	26.53	18.03	10.35
12.2	12.64	52.83	16.11	5.14	34.50	0.71	27.70	18.93	10.18
12.4	12.87	54.08	16.13	5.67	40.85	0.75	27.25	19.57	10.21
12.6	12.94	51.83	16.06	6.21	32.66	0.78	28.94	20.18	10.10
12.8	13.02	52.35	16.22	6.82	35.82	0.81	29.05	20.63	10.05
13.0	13.02	53.17	16.44	7.50	40.91	0.84	30.02	21.36	10.08
13.2	13.05	53.61	17.17	8.38	44.78	0.87	30.58	21.83	9.99
13.4	13.05	54.34	17.49	9.21	50.17	0.89	30.56	22.30	9.96
13.6	13.05	55.47	16.79	10.06	58.31	0.92	31.65	22.36	9.87
13.8	13.09	55.61	17.23	11.20	60.61	0.94	31.47	22.85	9.68
14.0	13.13	55.25	17.29	12.37	59.01	0.96	32.39	23.00	9.72
14.5	13.35	56.26	17.82	15.85	66.89	0.99	32.91	24.32	9.61
15.0	13.68	58.12	18.38	19.55	81.23	1.00	33.10	25.00	9.37
15.5	14.09	59.30	18.22	23.89	89.35	1.01	33.62	25.33	9.26
16.0	14.49	61.06	18.27	30.53	104.76	1.01	33.99	25.85	9.02
17.0	14.97	55.64	20.76	23.74	53.34	1.00	33.38	26.07	8.84
17.5	15.11	72.23	26.01	16.17	349.53	0.98	33.40	25.58	8.86
18.0	15.66	63.79	27.67	15.04	123.23	0.97	33.42	26.99	8.74
18.5	15.76	55.70	19.18	12.98	46.61	0.96	33.19	26.48	8.48
19.0	15.36	55.02	15.08	14.50	44.90	0.99	32.26	26.36	8.56
19.5	15.73	57.48	11.82	15.28	55.47	1.03	32.19	26.42	8.55
20.0	15.59	59.98	10.20	14.35	72.20	1.06	32.21	26.49	8.86
20.5	14.96	60.48	8.31	15.31	78.05	1.11	31.64	26.54	9.04
21.0	14.52	64.68	7.68	14.88	129.16	1.13	31.35	26.62	9.16
21.5	14.12	60.89	7.06	14.57	84.56	1.15	31.09	26.62	9.20
22.0	13.94	61.18	7.02	12.72	87.42	1.13	30.74	26.20	9.07
22.5	13.73	59.71	6.85	11.84	73.79	1.13	31.24	26.25	8.65
23.0	13.78	59.51	7.26	11.90	73.47	1.11	31.53	26.33	8.44
23.5	13.80	53.50	7.85	11.90	37.74	1.09	30.88	26.26	8.21
24.0	14.26	50.91	9.51	11.70	28.05	1.04	30.51	25.63	7.82
24.5	14.73	45.30	11.30	12.95	14.82	1.02	30.29	25.89	7.25
25.0	14.89	42.67	11.77	12.90	10.92	1.01	30.04	25.12	7.29
25.4	14.51	40.43	14.02	12.03	8.97	0.97	30.82	25.73	6.98
25.6	14.02	41.96	14.67	11.62	11.28	0.96	30.28	25.84	7.08
25.8	13.98	42.60	16.19	11.56	12.30	0.95	30.62	25.56	7.09
26.0	13.66	40.50	15.15	10.52	9.78	0.93	30.82	25.08	7.21
26.2	13.98	43.61	15.52	11.03	13.62	0.94	30.92	25.27	7.11
26.4	13.90	41.05	12.78	10.53	9.92	0.95	30.88	24.79	7.38
26.5	13.92	41.08	11.62	10.24	9.71	0.96	30.56	24.81	7.38

## 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\* = 5.00V, Id = 537.02mA @ Temperature = -45°C

Note\*: V+ = Vd + 1

FREQ	Gain	Isolation	Input Return Loss	Output Return Loss	Stability		IP-3 Output	1dB Comp. Output	Noise Figure
					K	Measure			
(GHz)	(dB)	(dB)	(dB)	(dB)	K	Measure	(dBm)	(dBm)	(dB)
12.0	13.93	54.49	14.43	4.05	31.07	0.63	25.29	17.40	9.20
12.2	14.33	53.23	14.08	4.37	26.75	0.66	26.41	18.27	8.79
12.4	14.57	53.54	14.01	4.82	28.52	0.70	25.87	18.87	8.60
12.6	14.67	54.56	13.64	5.27	33.23	0.73	27.78	19.45	8.94
12.8	14.78	52.94	14.46	5.93	29.06	0.77	27.50	20.02	8.78
13.0	14.78	52.91	13.77	6.53	30.13	0.81	28.84	20.69	8.63
13.2	14.86	53.10	15.31	7.67	32.91	0.85	29.14	21.33	8.78
13.4	14.84	54.65	15.35	8.32	40.58	0.88	29.38	21.71	8.53
13.6	14.86	55.32	15.16	9.73	45.69	0.92	30.38	21.84	8.51
13.8	14.90	54.45	15.96	11.18	42.76	0.95	30.45	22.23	8.56
14.0	14.92	54.87	15.43	12.80	45.72	0.97	31.36	22.48	8.31
14.5	15.13	56.32	16.83	18.25	55.34	1.01	32.42	23.85	8.47
15.0	15.36	58.92	18.12	19.63	73.40	1.00	32.98	24.77	8.13
15.5	15.75	57.42	19.44	20.74	59.41	1.00	33.98	25.09	7.87
16.0	16.06	59.14	19.80	21.63	70.02	1.00	34.58	25.59	7.66
17.0	16.60	58.34	20.27	19.99	59.89	1.00	34.64	25.73	7.74
17.5	16.68	69.03	20.10	16.04	200.25	0.98	34.33	25.21	7.47
18.0	17.49	62.08	20.69	15.98	81.93	0.98	34.61	26.81	7.33
18.5	17.77	55.60	20.61	14.19	37.15	0.97	34.35	26.25	7.18
19.0	17.48	52.90	14.01	15.53	27.50	1.01	33.58	26.47	7.24
19.5	17.81	59.47	11.47	15.54	54.67	1.04	33.18	26.66	7.51
20.0	17.80	56.19	8.34	12.34	33.44	1.08	33.21	26.68	7.79
20.5	17.06	58.97	6.75	11.84	45.82	1.13	33.09	26.45	7.40
21.0	16.43	59.85	5.55	10.64	48.79	1.17	32.39	26.48	7.41
21.5	16.07	61.60	5.30	11.70	62.24	1.21	31.74	26.72	7.41
22.0	16.03	61.31	5.66	10.28	60.73	1.15	31.16	26.48	7.50
22.5	16.07	58.55	6.62	9.94	46.80	1.09	31.54	26.49	7.22
23.0	16.26	62.46	7.25	10.84	76.01	1.09	31.84	26.39	7.22
23.5	16.32	53.20	8.46	11.85	27.93	1.07	30.87	26.18	6.91
24.0	16.75	49.07	8.81	11.83	16.70	1.06	30.59	25.74	6.58
24.5	17.32	44.07	10.92	13.80	9.55	1.04	30.04	25.98	6.36
25.0	17.88	40.77	10.85	14.75	6.24	1.04	29.42	25.29	6.01
25.4	17.15	40.23	11.34	10.76	6.17	0.97	30.20	25.75	5.66
25.6	16.65	40.65	11.67	10.43	6.83	0.96	29.96	25.97	5.73
25.8	16.38	40.97	12.60	9.44	7.21	0.92	30.50	25.55	5.53
26.0	16.18	40.62	14.02	9.16	7.13	0.90	30.35	25.13	5.84
26.2	16.22	42.73	13.60	9.19	8.99	0.91	30.98	25.28	5.96
26.4	16.27	40.29	13.16	8.91	6.69	0.90	30.73	25.00	5.79
26.5	16.28	40.35	11.64	8.72	6.55	0.91	30.53	24.95	5.68

## 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 = 501.98mA @ Temperature = -45°C

Note\*: V+ = Vd + 1

FREQ	Gain	Isolation	Input Return Loss	Output Return Loss	Stability		IP-3 Output	1dB Comp. Output	Noise Figure
					K	Measure			
(GHz)	(dB)	(dB)	(dB)	(dB)	K	Measure	(dBm)	(dBm)	(dB)
12.0	13.90	54.97	14.47	4.05	32.96	0.63	25.19	16.76	8.91
12.2	14.31	53.59	14.13	4.37	27.95	0.66	26.29	17.63	8.80
12.4	14.54	53.48	14.01	4.82	28.41	0.70	25.76	18.22	8.73
12.6	14.65	54.48	13.68	5.27	33.00	0.73	27.70	18.84	8.66
12.8	14.77	53.06	14.45	5.92	29.50	0.77	27.39	19.37	8.63
13.0	14.75	52.97	13.76	6.51	30.37	0.81	28.75	20.05	8.61
13.2	14.83	53.03	15.41	7.65	32.79	0.85	29.00	20.72	8.48
13.4	14.81	54.68	15.32	8.30	40.80	0.88	29.32	21.10	8.43
13.6	14.83	55.14	15.11	9.71	44.92	0.92	30.37	21.18	8.42
13.8	14.85	54.27	15.98	11.16	42.11	0.95	30.46	21.60	8.27
14.0	14.88	55.01	15.36	12.76	46.68	0.97	31.43	21.86	8.24
14.5	15.08	56.32	16.81	18.20	55.58	1.01	32.40	23.25	8.13
15.0	15.29	59.19	18.11	19.59	76.25	1.00	33.06	24.22	7.92
15.5	15.67	57.89	19.31	20.71	63.27	1.00	33.97	24.55	7.85
16.0	16.00	59.15	19.86	21.57	70.63	1.00	34.38	25.03	7.57
17.0	16.54	57.57	20.27	20.11	55.22	1.00	34.93	25.13	7.37
17.5	16.62	70.00	20.13	16.05	225.35	0.98	34.36	24.63	7.43
18.0	17.43	62.50	20.63	16.01	86.59	0.98	34.65	26.26	7.29
18.5	17.71	55.67	20.58	14.19	37.74	0.97	34.68	25.72	7.12
19.0	17.41	53.09	14.07	15.61	28.39	1.01	33.31	25.81	6.91
19.5	17.73	60.57	11.48	15.50	62.56	1.04	33.48	26.05	7.08
20.0	17.73	59.46	8.34	12.41	49.18	1.08	33.23	26.14	7.36
20.5	16.98	60.14	6.73	11.78	52.76	1.13	33.03	25.94	7.21
21.0	16.36	61.01	5.55	10.56	56.14	1.17	32.08	25.95	7.40
21.5	16.00	62.53	5.30	11.59	69.72	1.20	31.60	26.12	7.38
22.0	15.98	62.91	5.68	10.32	73.66	1.15	31.12	25.82	7.32
22.5	16.04	60.43	6.64	10.03	58.55	1.10	31.52	25.81	6.92
23.0	16.21	61.24	7.21	10.91	66.40	1.09	31.68	25.77	6.94
23.5	16.28	53.71	8.45	11.82	29.72	1.07	30.80	25.52	6.75
24.0	16.71	50.52	8.82	11.91	19.86	1.06	30.59	25.14	6.57
24.5	17.28	44.24	10.95	13.71	9.78	1.04	29.97	25.36	6.14
25.0	17.85	40.93	10.91	14.78	6.39	1.04	29.47	24.70	5.79
25.4	17.12	39.95	11.25	10.80	5.98	0.97	30.16	25.18	5.38
25.6	16.61	40.37	11.67	10.39	6.64	0.96	29.93	25.41	5.45
25.8	16.31	40.95	12.49	9.47	7.25	0.92	30.38	24.98	5.48
26.0	16.15	40.48	13.96	9.15	7.03	0.90	30.43	24.57	5.43
26.2	16.20	42.63	13.68	9.21	8.92	0.91	30.92	24.66	5.68
26.4	16.23	40.63	13.22	8.98	7.00	0.90	30.80	24.44	5.63
26.5	16.24	40.50	11.77	8.77	6.72	0.91	30.43	24.36	5.62

## 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 = 575.09mA @ Temperature = -45°C

Note\*: V+ = Vd + 1

FREQ	Gain	Isolation	Input Return Loss	Output Return Loss	Stability		IP-3 Output	1dB Comp. Output	Noise Figure
					K	Measure			
(GHz)	(dB)	(dB)	(dB)	(dB)	K	Measure	(dBm)	(dBm)	(dB)
12.0	13.81	55.08	14.43	4.06	33.80	0.63	25.48	17.97	9.12
12.2	14.21	53.68	14.10	4.38	28.63	0.66	26.58	18.84	9.01
12.4	14.44	53.14	13.98	4.83	27.68	0.70	26.05	19.45	8.91
12.6	14.55	54.39	13.67	5.29	33.14	0.73	27.93	20.06	8.84
12.8	14.67	53.06	14.43	5.95	29.89	0.77	27.68	20.57	8.83
13.0	14.66	52.79	13.72	6.55	30.12	0.81	28.97	21.29	8.83
13.2	14.75	53.06	15.41	7.71	33.29	0.85	29.22	21.92	8.78
13.4	14.74	54.53	15.34	8.37	40.53	0.88	29.46	22.30	8.71
13.6	14.77	55.34	15.14	9.80	46.37	0.92	30.41	22.39	8.63
13.8	14.81	54.09	15.96	11.27	41.49	0.95	30.50	22.82	8.53
14.0	14.84	54.98	15.40	12.88	46.78	0.98	31.39	23.07	8.47
14.5	15.05	55.82	16.80	18.41	52.72	1.01	32.40	24.38	8.39
15.0	15.29	59.02	18.09	19.77	74.80	1.00	32.85	25.27	8.20
15.5	15.69	58.04	19.32	20.86	64.26	1.00	33.74	25.61	8.01
16.0	16.01	59.22	19.71	21.69	71.10	1.00	33.97	26.11	7.79
17.0	16.56	56.72	20.26	20.22	49.97	1.00	34.45	26.32	7.66
17.5	16.61	83.43	20.12	15.89	1057.33	0.98	34.11	25.85	7.65
18.0	17.43	61.85	20.76	15.89	80.30	0.98	34.68	27.41	7.51
18.5	17.71	55.80	20.31	14.07	38.23	0.97	34.38	26.84	7.33
19.0	17.42	53.29	14.08	15.44	28.99	1.01	33.10	27.01	7.17
19.5	17.74	59.64	11.52	15.39	56.18	1.04	32.80	27.19	7.37
20.0	17.74	57.73	8.37	12.34	40.28	1.08	33.11	27.22	7.61
20.5	16.98	59.10	6.71	11.81	46.80	1.13	32.74	27.06	7.53
21.0	16.34	60.67	5.55	10.67	54.24	1.17	32.09	27.16	7.68
21.5	15.98	61.42	5.31	11.75	61.71	1.21	31.61	27.38	7.71
22.0	15.94	59.19	5.68	10.23	48.13	1.15	31.17	27.22	7.63
22.5	15.99	59.11	6.66	9.96	50.56	1.09	31.34	27.11	7.26
23.0	16.15	63.12	7.24	10.86	83.05	1.09	31.69	26.93	7.21
23.5	16.21	53.02	8.51	11.78	27.73	1.07	30.73	26.67	7.00
24.0	16.64	49.54	8.82	11.82	17.87	1.06	30.65	26.29	6.66
24.5	17.19	44.02	10.88	13.76	9.63	1.04	30.09	26.51	6.11
25.0	17.71	40.98	10.85	14.51	6.51	1.04	29.49	25.84	6.05
25.4	16.95	39.52	11.17	10.55	5.78	0.96	30.27	26.31	5.68
25.6	16.48	40.62	11.69	10.42	6.93	0.96	30.02	26.51	5.70
25.8	16.12	40.73	12.39	9.30	7.18	0.92	30.37	26.10	5.76
26.0	15.97	40.09	13.78	9.01	6.84	0.90	30.40	25.67	5.77
26.2	16.10	42.73	13.66	9.20	9.12	0.91	30.77	25.76	5.85
26.4	16.15	40.89	13.20	9.01	7.28	0.91	30.75	25.52	5.96
26.5	16.26	41.54	11.97	9.00	7.62	0.92	30.28	25.46	5.91



## 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 = 576.92mA @ Temperature = +85°C

Note\*: V+ = Vd + 1

FREQ	Gain	Isolation	Input Return Loss	Output Return Loss	Stability		IP-3 Output	1dB Comp. Output	Noise Figure
					K	Measure			
(GHz)	(dB)	(dB)	(dB)	(dB)	K	Measure	(dBm)	(dBm)	(dB)
12.0	11.45	55.58	17.26	5.08	54.36	0.70	27.89	17.76	11.02
12.2	11.80	55.40	17.92	5.65	54.15	0.74	28.99	18.67	10.89
12.4	12.04	53.41	17.81	6.20	43.79	0.77	28.78	19.31	10.77
12.6	12.12	52.23	17.96	6.78	39.36	0.80	30.19	19.96	10.75
12.8	12.19	54.38	17.76	7.41	51.83	0.83	30.49	20.26	10.64
13.0	12.20	54.89	18.61	8.13	56.94	0.86	31.08	21.04	10.68
13.2	12.19	54.08	19.03	8.91	53.54	0.88	31.68	21.35	10.63
13.4	12.20	53.42	19.41	9.80	50.94	0.90	31.29	21.92	10.47
13.6	12.18	53.31	18.25	10.43	51.04	0.92	32.23	21.87	10.48
13.8	12.21	54.93	18.23	11.35	62.40	0.94	31.79	22.39	10.35
14.0	12.28	56.63	18.75	12.25	76.56	0.95	32.05	22.45	10.26
14.5	12.49	57.40	18.28	14.89	83.88	0.98	32.19	23.65	10.16
15.0	12.83	57.99	18.55	18.73	88.15	1.00	31.88	24.23	10.05
15.5	13.23	59.20	17.65	23.02	97.29	1.01	32.28	24.50	9.75
16.0	13.65	60.62	18.04	34.83	109.71	1.02	32.30	25.05	9.60
17.0	13.99	58.12	20.38	24.21	79.35	1.01	31.82	25.33	9.51
17.5	14.19	63.25	32.27	16.19	138.42	0.98	32.11	25.10	9.48
18.0	14.54	67.29	22.26	14.09	207.23	0.97	31.92	26.34	9.40
18.5	14.40	55.71	14.82	11.60	52.31	0.96	31.71	25.75	9.20
19.0	14.16	57.05	14.07	13.10	63.72	0.99	31.31	25.23	9.39
19.5	14.36	58.82	11.35	13.91	74.29	1.03	31.12	25.20	9.38
20.0	14.06	60.11	10.84	13.88	88.27	1.04	31.22	25.38	9.57
20.5	13.59	61.47	9.34	14.93	105.79	1.08	30.53	25.63	9.65
21.0	13.20	64.36	8.98	15.85	153.90	1.10	30.32	25.63	9.73
21.5	12.91	58.85	8.54	15.48	82.89	1.11	30.41	25.29	9.78
22.0	12.71	62.63	8.40	14.34	129.22	1.10	30.18	24.75	9.65
22.5	12.45	61.37	7.61	13.77	110.68	1.12	30.82	25.01	9.41
23.0	12.40	60.54	7.75	13.34	101.31	1.11	31.19	25.48	9.30
23.5	12.44	54.16	8.06	13.05	48.89	1.10	30.69	25.57	8.93
24.0	12.80	49.48	9.40	11.95	28.20	1.05	30.65	24.60	8.44
24.5	13.25	45.94	11.72	13.06	19.10	1.02	30.17	24.75	8.13
25.0	13.22	42.87	12.65	12.39	13.61	0.99	30.08	23.99	7.94
25.4	12.76	42.00	15.07	12.28	13.26	0.97	30.74	24.81	7.79
25.6	12.43	41.31	15.93	11.74	12.68	0.95	30.40	25.04	7.81
25.8	12.45	42.72	18.00	11.85	15.05	0.95	30.53	24.60	7.74
26.0	12.29	42.11	16.50	11.55	14.14	0.95	30.75	24.31	7.86
26.2	12.57	41.74	15.62	11.35	13.01	0.95	30.51	24.31	7.91
26.4	12.76	40.69	13.29	11.85	11.17	0.97	30.73	23.80	8.31
26.5	12.63	41.13	11.78	11.21	11.57	0.98	30.49	23.88	8.20

## 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 = 542.29mA @ Temperature = +85°C

Note\*: V+ = Vd + 1

FREQ	Gain	Isolation	Input Return Loss	Output Return Loss	Stability		IP-3 Output	1dB Comp. Output	Noise Figure
					K	Measure			
(GHz)	(dB)	(dB)	(dB)	(dB)	K	Measure	(dBm)	(dBm)	(dB)
12.0	11.84	55.54	17.21	5.11	51.90	0.71	27.78	16.94	11.36
12.2	12.19	55.02	17.91	5.66	49.66	0.74	28.89	17.90	10.81
12.4	12.43	53.67	17.79	6.22	43.16	0.77	28.70	18.50	10.75
12.6	12.51	52.26	17.99	6.78	37.78	0.80	30.05	19.24	11.10
12.8	12.57	54.62	17.78	7.40	50.92	0.83	30.39	19.53	10.83
13.0	12.58	55.18	18.60	8.11	56.28	0.86	30.97	20.32	10.69
13.2	12.56	54.20	19.04	8.89	51.99	0.88	31.52	20.65	10.79
13.4	12.57	53.53	19.39	9.76	49.41	0.90	31.17	21.17	10.63
13.6	12.54	53.50	18.26	10.38	50.05	0.92	31.92	21.19	10.55
13.8	12.56	55.12	18.23	11.28	61.24	0.94	31.48	21.69	10.57
14.0	12.61	56.43	18.71	12.16	71.90	0.95	31.76	21.77	10.33
14.5	12.80	57.26	18.23	14.76	79.57	0.98	31.92	23.08	10.43
15.0	13.12	57.69	18.49	18.58	82.32	1.00	31.60	23.63	10.18
15.5	13.48	59.19	17.67	22.86	94.36	1.01	32.04	23.87	9.91
16.0	13.88	60.69	18.07	34.48	107.84	1.02	32.12	24.40	9.73
17.0	14.16	58.58	20.40	24.16	82.13	1.01	31.69	24.73	9.78
17.5	14.33	62.08	32.27	16.21	119.01	0.98	31.99	24.50	9.53
18.0	14.66	66.84	22.19	14.19	194.34	0.97	31.97	25.73	9.40
18.5	14.49	56.06	14.83	11.74	54.01	0.96	31.61	25.07	9.22
19.0	14.23	58.24	14.09	13.24	72.54	0.99	31.37	24.49	9.57
19.5	14.40	59.54	11.35	13.94	80.38	1.03	31.04	24.56	9.64
20.0	14.08	60.98	10.85	13.76	97.22	1.04	30.98	24.85	9.91
20.5	13.59	62.30	9.35	14.62	116.20	1.08	30.54	25.15	9.71
21.0	13.21	65.22	9.00	15.57	169.39	1.09	30.37	25.04	9.70
21.5	12.94	59.17	8.54	15.33	85.58	1.11	30.43	24.61	9.73
22.0	12.76	62.82	8.44	14.33	131.52	1.10	30.24	23.92	9.79
22.5	12.52	60.80	7.65	13.81	102.96	1.12	30.75	24.17	9.65
23.0	12.49	61.27	7.77	13.44	109.23	1.11	31.26	24.71	9.51
23.5	12.55	53.91	8.06	13.18	46.93	1.10	30.72	24.79	9.00
24.0	12.94	49.51	9.42	12.11	27.93	1.05	30.61	23.84	8.65
24.5	13.40	45.73	11.82	13.25	18.40	1.02	30.59	23.95	8.26
25.0	13.40	42.77	12.73	12.54	13.22	0.99	30.32	23.15	8.16
25.4	12.97	41.92	15.04	12.43	12.86	0.97	31.02	23.95	8.05
25.6	12.58	41.24	15.79	11.86	12.40	0.96	30.67	24.19	8.02
25.8	12.62	42.76	18.14	11.91	14.84	0.95	30.68	23.71	7.95
26.0	12.46	42.00	16.56	11.56	13.69	0.95	30.77	23.51	8.16
26.2	12.69	41.85	15.42	11.36	12.98	0.95	30.88	23.41	8.37
26.4	12.89	40.74	13.23	11.80	11.05	0.97	31.08	22.92	8.36
26.5	12.73	40.75	11.58	11.17	10.91	0.98	30.75	23.06	8.33



## 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 = 614.98mA @ Temperature = +85°C

Note\*: V+ = Vd + 1

FREQ	Gain	Isolation	Input Return Loss	Output Return Loss	Stability		IP-3 Output	1dB Comp. Output	Noise Figure
					K	Measure			
(GHz)	(dB)	(dB)	(dB)	(dB)	K	Measure	(dBm)	(dBm)	(dB)
12.0	10.84	55.50	17.23	5.10	57.86	0.70	27.77	18.46	11.16
12.2	11.19	54.69	17.93	5.66	53.60	0.74	28.89	19.38	11.06
12.4	11.42	53.77	17.88	6.24	49.08	0.77	28.67	19.99	11.05
12.6	11.51	52.14	18.06	6.82	41.89	0.80	30.15	20.61	10.98
12.8	11.57	54.48	17.87	7.46	56.42	0.83	30.48	20.91	10.88
13.0	11.59	55.11	18.70	8.18	62.74	0.86	31.16	21.69	10.88
13.2	11.60	53.81	19.07	8.99	55.69	0.88	31.83	22.00	10.80
13.4	11.62	53.53	19.40	9.88	55.29	0.91	31.49	22.52	10.76
13.6	11.61	53.33	18.31	10.53	54.81	0.92	32.40	22.48	10.67
13.8	11.65	54.75	18.24	11.46	65.36	0.94	32.00	22.99	10.58
14.0	11.72	56.05	18.67	12.36	76.47	0.95	32.44	23.01	10.56
14.5	11.97	57.24	18.23	14.99	87.52	0.98	32.45	24.20	10.34
15.0	12.33	57.24	18.46	18.80	85.60	1.00	32.27	24.80	10.22
15.5	12.76	58.90	17.61	23.09	99.16	1.01	32.66	25.08	10.02
16.0	13.21	60.63	17.99	35.43	115.68	1.02	32.85	25.65	9.81
17.0	13.58	57.79	20.43	24.20	80.07	1.01	32.16	26.01	9.74
17.5	13.78	62.18	32.45	15.90	127.92	0.97	32.35	25.86	9.79
18.0	14.17	68.03	22.09	13.91	235.08	0.97	32.18	27.07	9.69
18.5	14.03	55.93	14.77	11.43	55.78	0.96	31.85	26.40	9.50
19.0	13.82	58.82	14.02	12.89	81.02	0.99	31.34	25.87	9.56
19.5	14.02	59.12	11.29	13.81	79.88	1.03	31.25	25.84	9.61
20.0	13.74	59.65	10.85	13.99	86.91	1.04	31.16	26.04	9.87
20.5	13.27	62.51	9.37	15.11	124.12	1.08	30.73	26.38	9.95
21.0	12.88	64.99	9.03	16.10	172.15	1.10	30.45	26.47	10.09
21.5	12.57	58.82	8.58	15.62	86.12	1.11	30.51	26.22	10.09
22.0	12.33	62.33	8.47	14.35	130.70	1.10	30.26	25.73	9.97
22.5	12.04	60.05	7.67	13.81	99.86	1.12	30.80	25.87	9.68
23.0	11.98	61.09	7.79	13.34	113.47	1.11	31.18	26.31	9.60
23.5	12.00	54.18	8.10	13.00	51.51	1.10	30.50	26.42	9.25
24.0	12.34	49.90	9.37	11.83	31.11	1.04	30.39	25.40	8.78
24.5	12.73	45.86	11.67	12.87	20.04	1.01	30.32	25.52	8.43
25.0	12.69	43.04	12.74	12.19	14.72	0.99	30.19	24.75	8.25
25.4	12.28	42.16	15.28	12.27	14.30	0.97	30.70	25.61	8.07
25.6	11.96	41.48	16.15	11.86	13.70	0.95	30.47	25.81	8.04
25.8	11.96	42.65	18.32	11.83	15.79	0.95	30.60	25.42	8.10
26.0	11.84	41.71	16.63	11.53	14.22	0.95	30.91	25.13	8.14
26.2	12.10	41.66	15.60	11.39	13.62	0.95	30.78	25.12	8.22
26.4	12.28	40.60	13.43	11.87	11.70	0.97	30.75	24.57	8.59
26.5	12.16	40.55	11.71	11.22	11.40	0.98	30.57	24.71	8.45