

*Typical Performance Data*

VDS (V)	IDS (mA)				
	@ VGS=				
	0.20V	0.30V	0.40V	0.50V	0.60V
0.00	0.01	0.04	0.08	0.08	0.10
0.10	0.27	3.65	12.61	18.97	21.95
0.20	0.29	4.15	18.82	34.57	42.39
0.30	0.30	4.34	20.58	45.11	60.56
0.40	0.33	4.50	21.37	50.24	75.24
0.50	0.34	4.65	21.90	52.30	85.18
0.60	0.34	4.85	22.33	53.38	90.38
0.70	0.36	4.99	22.76	54.18	92.66
0.80	0.38	5.13	23.24	54.89	93.88
0.90	0.40	5.25	23.62	55.49	94.80
1.00	0.42	5.38	23.97	56.03	95.53
1.10	0.43	5.51	24.29	56.51	96.14
1.20	0.45	5.63	24.61	56.97	96.68
1.30	0.45	5.75	24.91	57.39	97.18
1.40	0.47	5.86	25.22	57.82	97.65
1.50	0.48	5.98	25.50	58.21	98.08
1.60	0.52	6.10	25.77	58.60	98.49
1.70	0.53	6.21	26.04	58.97	98.89
1.80	0.55	6.32	26.32	59.33	99.30
1.90	0.57	6.45	26.58	59.70	99.68
2.00	0.55	6.55	26.87	60.08	100.07
2.10	0.58	6.69	27.17	60.50	100.48
2.20	0.60	6.82	27.51	60.97	100.97
2.30	0.63	6.99	27.89	61.47	101.50
2.40	0.64	7.17	28.29	62.05	102.12
2.50	0.67	7.34	28.74	62.68	102.78
2.60	0.70	7.52	29.19	63.32	103.50
2.70	0.71	7.69	29.65	63.99	104.22
2.80	0.73	7.90	30.15	64.64	104.94
2.90	0.76	8.10	30.62	65.31	105.64
3.00	0.82	8.34	31.13	65.99	106.33
3.10	0.84	8.56	31.63	66.65	107.02
3.20	0.87	8.79	32.17	67.32	107.70
3.30	0.90	9.03	32.72	68.02	108.37
3.40	0.92	9.30	33.28	68.69	109.02
3.50	0.95	9.58	33.87	69.41	109.67
3.60	1.01	9.89	34.46	70.12	110.34
3.70	1.06	10.20	35.06	70.81	111.00
3.80	1.10	10.53	35.67	71.53	111.64
3.90	1.14	10.86	36.29	72.24	112.30
4.00	1.14	11.21	36.89	72.93	112.96
4.10	1.30	11.55	37.51	73.65	113.60
4.20	1.37	11.90	38.13	74.35	114.25
4.30	1.45	12.26	38.74	75.03	114.88
4.40	1.54	12.63	39.36	75.76	115.53
4.50	1.62	13.00	39.99	76.47	116.18
4.60	1.69	13.38	40.62	77.15	116.80
4.70	1.78	13.76	41.23	77.86	117.44
4.80	1.90	14.14	41.86	78.56	118.06
4.90	1.98	14.53	42.50	79.26	118.67
5.00	2.07	14.94	43.13	79.96	119.30

Typical Performance Data

IDS (mA)	GAIN (dB) <sup>(1)</sup>				OIP3 (dBm) <sup>(1)</sup>			
	VDS=+3V		VDS=+4V		VDS=+3V		VDS=+4V	
	0.9 GHz	2 GHz	0.9 GHz	2 GHz	0.9 GHz	2 GHz	0.9 GHz	2 GHz
10.00	20.02	15.36	20.05	15.39	20.31	21.12	20.16	20.91
15.00	21.22	16.22	21.17	16.18	22.82	24.10	22.70	23.93
30.00	22.62	17.15	22.67	17.14	28.66	30.74	28.32	30.23
60.00	23.53	17.74	23.51	17.73	32.60	33.81	33.41	35.32

IDS (mA)	Pout @ 1dB Compression <sup>(1,2)</sup> (dBm)				NOISE FIGURE <sup>(1)</sup> (dB)			
	VDS=+3V		VDS=+4V		VDS=+3V		VDS=+4V	
	0.9 GHz	2 GHz	0.9 GHz	2 GHz	0.9 GHz	2 GHz	0.9 GHz	2 GHz
10.00	17.56	18.18	20.03	20.90	0.48	0.63	--	--
15.00	17.05	17.50	19.29	20.00	0.48	0.54	0.47	0.54
30.00	18.50	19.00	19.50	20.59	0.39	0.50	0.39	0.47
60.00	18.85	19.20	21.12	21.50	0.34	0.43	0.38	0.51

FREQ (GHz)	NF vs FREQ & TEMPERATURE <sup>(1)</sup> @ VDS=3V, IDS=30mA			NF vs FREQ & TEMPERATURE <sup>(1)</sup> @ VDS=4V, IDS=30mA		
	-40°C	+25°C	+85°C	-40°C	+25°C	+85°C
0.25	0.26	0.35	0.49	0.25	0.33	0.55
0.30	0.23	0.38	0.46	0.24	0.35	0.55
0.40	0.39	0.35	0.42	0.41	0.26	0.48
0.50	0.39	0.33	0.41	0.40	0.35	0.61
0.60	0.32	0.38	0.5	0.35	0.34	0.61
0.70	0.29	0.37	0.49	0.29	0.37	0.62
0.80	0.24	0.36	0.48	0.28	0.33	0.56
0.90	0.33	0.39	0.53	0.30	0.39	0.60
1.00	0.31	0.37	0.51	0.35	0.39	0.56
1.25	0.33	0.43	0.58	0.34	0.44	0.67
1.50	0.34	0.46	0.63	0.32	0.49	0.72
1.75	0.40	0.50	0.72	0.41	0.48	0.72
2.00	0.28	0.50	0.67	0.29	0.47	0.73
2.25	0.32	0.50	0.76	0.31	0.49	0.79
2.50	0.29	0.60	0.79	0.30	0.56	0.82
2.75	0.55	0.74	0.97	0.51	0.76	1.17
3.00	0.36	0.62	0.87	0.40	0.60	0.95
3.25	0.41	0.65	0.91	0.49	0.76	1.07
3.50	0.52	0.68	0.97	0.40	0.88	1.16
3.75	0.36	0.77	1.07	0.53	0.88	1.23
4.00	0.54	0.85	1.13	0.55	0.98	1.32
4.25	0.55	0.91	1.25	0.56	1.05	1.47
4.50	0.62	1.00	1.34	0.54	1.18	1.65
4.75	0.72	1.06	1.36	0.72	1.22	1.72
5.00	0.94	1.29	1.62	0.98	1.40	1.92
5.25	0.54	1.35	1.76	0.69	1.53	2.02
5.50	0.40	1.47	1.93	0.81	1.76	2.26
5.75	1.01	1.51	1.95	1.07	1.85	2.34
6.00	0.76	1.62	2.17	1.02	1.91	2.52

(1) Includes test board loss

(2) Drain current was allowed to increase during compression measurement

Typical Performance Data

FREQ (GHz)	GAIN vs FREQ & TEMPERATURE @ VDS=3V, IDS=30mA			OIP3 vs FREQ & TEMPERATURE <sup>(1)</sup> @ VDS=3V, IDS=30mA			P1dB vs FREQ & TEMPERATURE <sup>(1,2)</sup> @ VDS=3V, IDS=30mA		
	-45°C	+25°C	+85°C	-45°C	+25°C	+85°C	-45°C	+25°C	+85°C
0.40	26.16	25.79	25.28	26.37	26.83	25.92	17.24	17.75	17.19
0.50	25.56	25.23	24.63	26.67	27.08	26.24	17.30	17.82	17.27
0.60	24.99	24.57	24.10	26.97	27.33	26.56	17.36	17.88	17.35
0.70	24.36	23.93	23.37	27.26	27.58	26.87	17.42	17.95	17.43
0.80	23.73	23.21	22.75	27.55	27.83	27.18	17.48	18.01	17.51
0.90	23.04	22.62	22.15	27.84	28.08	27.49	17.53	18.06	17.58
1.00	22.47	22.09	21.58	28.13	28.33	27.79	17.59	18.12	17.65
1.10	21.88	21.47	21.02	28.41	28.58	28.09	17.64	18.17	17.72
1.20	21.25	20.91	20.45	28.69	28.82	28.39	17.69	18.22	17.79
1.30	20.73	20.31	19.91	28.96	29.07	28.68	17.73	18.27	17.85
1.40	20.20	19.81	19.37	29.24	29.31	28.97	17.78	18.32	17.91
1.50	19.70	19.34	18.93	29.50	29.56	29.25	17.82	18.36	17.97
1.60	19.21	18.81	18.45	29.77	29.80	29.53	17.86	18.40	18.02
1.70	18.76	18.35	17.99	30.03	30.04	29.81	17.90	18.44	18.07
1.80	18.34	17.98	17.57	30.29	30.29	30.08	17.94	18.48	18.12
1.90	17.93	17.52	17.16	30.55	30.53	30.35	17.97	18.51	18.17
2.00	17.50	17.15	16.75	30.81	30.77	30.62	18.00	18.55	18.21
2.10	17.09	16.77	16.34	31.06	31.01	30.88	18.03	18.58	18.25
2.20	16.73	16.43	16.00	31.30	31.24	31.14	18.06	18.61	18.29
2.30	16.41	16.08	15.65	31.55	31.48	31.40	18.09	18.63	18.33
2.40	16.07	15.76	15.30	31.79	31.72	31.65	18.11	18.65	18.36
2.50	15.79	15.41	15.03	32.03	31.96	31.90	18.14	18.68	18.39
2.60	15.44	15.19	14.66	32.26	32.19	32.14	18.16	18.69	18.42
2.70	15.15	14.88	14.36	32.50	32.43	32.38	18.17	18.71	18.44
2.80	14.87	14.54	14.07	32.72	32.66	32.62	18.19	18.73	18.46
2.90	14.72	14.30	13.88	32.95	32.89	32.85	18.20	18.74	18.48
3.00	14.40	14.05	13.55	33.17	33.13	33.08	18.22	18.75	18.50
3.10	14.19	13.79	13.34	33.39	33.36	33.30	18.23	18.76	18.52
3.20	13.97	13.59	13.08	33.61	33.59	33.53	18.23	18.76	18.53
3.30	13.70	13.32	12.79	33.82	33.82	33.74	18.24	18.76	18.54
3.40	13.43	13.08	12.51	34.03	34.05	33.96	18.24	18.77	18.54
3.50	13.23	12.87	12.29	34.24	34.28	34.17	18.24	18.76	18.54
3.60	13.04	12.62	12.11	34.45	34.51	34.38	18.24	18.76	18.54
3.70	12.75	12.30	11.79	34.65	34.74	34.58	18.24	18.75	18.54
3.80	12.51	12.07	11.53	34.85	34.96	34.78	18.24	18.75	18.54
3.90	12.27	11.87	11.31	35.04	35.19	34.98	18.23	18.74	18.53
4.00	12.04	11.72	11.09	35.23	35.41	35.17	18.22	18.72	18.52
4.10	11.90	11.33	10.93	35.42	35.64	35.36	18.21	18.71	18.51
4.20	11.69	11.16	10.75	35.61	35.86	35.54	18.20	18.69	18.49
4.30	11.50	10.97	10.54	35.79	36.08	35.72	18.18	18.67	18.47
4.40	11.25	10.73	10.31	35.97	36.31	35.90	18.17	18.65	18.45
4.50	11.04	10.46	10.14	36.15	36.53	36.08	18.15	18.62	18.43
4.60	10.67	10.24	9.76	36.32	36.75	36.25	18.13	18.60	18.40
4.70	10.53	10.00	9.60	36.49	36.97	36.41	18.10	18.57	18.37
4.80	10.30	9.80	9.43	36.66	37.19	36.58	18.08	18.54	18.34
4.90	10.06	9.68	9.20	36.82	37.41	36.73	18.05	18.51	18.31
5.00	9.82	9.48	8.93	36.99	37.62	36.89	18.02	18.47	18.27
5.10	9.57	9.28	8.73	37.14	37.84	37.04	17.99	18.43	18.23
5.20	9.34	9.01	8.53	37.30	38.06	37.19	17.96	18.39	18.19
5.30	9.16	8.78	8.38	37.45	38.27	37.33	17.92	18.35	18.14
5.40	8.90	8.62	8.19	37.60	38.49	37.48	17.89	18.31	18.09
5.50	8.75	8.42	8.04	37.74	38.70	37.61	17.85	18.26	18.04
5.60	8.57	8.16	7.75	37.89	38.91	37.75	17.80	18.21	17.99
5.70	8.40	7.93	7.68	38.03	39.13	37.88	17.76	18.16	17.93
5.80	8.25	7.77	7.52	38.16	39.34	38.00	17.72	18.10	17.87
5.90	7.89	7.51	7.17	38.30	39.55	38.13	17.67	18.05	17.81
6.00	7.61	7.35	6.83	38.43	39.76	38.24	17.62	17.99	17.75

(1) Includes test board loss

(2) Drain current was allowed to increase during compression measurement

Typical Performance Data

FREQ (GHz)	GAIN vs FREQ & TEMPERATURE @ VDS=4V, IDS=30mA			OIP3 vs FREQ & TEMPERATURE <sup>(1)</sup> @ VDS=4V, IDS=30mA			P1dB vs FREQ & TEMPERATURE <sup>(1,2)</sup> @ VDS=4V, IDS=30mA		
	-45°C	+25°C	+85°C	-45°C	+25°C	+85°C	-45°C	+25°C	+85°C
0.40	26.15	25.84	25.18	26.30	26.55	26.35	18.50	19.00	19.18
0.50	25.64	25.21	24.60	26.57	26.81	26.62	18.62	19.11	19.26
0.60	24.95	24.54	24.06	26.83	27.06	26.88	18.74	19.23	19.34
0.70	24.30	23.88	23.44	27.09	27.30	27.13	18.86	19.34	19.42
0.80	23.67	23.27	22.79	27.34	27.55	27.39	18.98	19.44	19.50
0.90	23.14	22.67	22.21	27.59	27.79	27.63	19.09	19.54	19.57
1.00	22.47	22.01	21.61	27.84	28.03	27.88	19.20	19.64	19.64
1.10	21.87	21.48	21.06	28.08	28.26	28.12	19.30	19.74	19.71
1.20	21.32	20.89	20.50	28.32	28.49	28.36	19.40	19.83	19.77
1.30	20.77	20.36	19.92	28.55	28.72	28.60	19.50	19.92	19.84
1.40	20.20	19.79	19.42	28.78	28.94	28.83	19.59	20.00	19.90
1.50	19.75	19.31	18.97	29.00	29.16	29.06	19.68	20.09	19.95
1.60	19.23	18.86	18.50	29.22	29.38	29.29	19.77	20.16	20.01
1.70	18.78	18.39	18.02	29.43	29.60	29.51	19.85	20.24	20.06
1.80	18.37	17.99	17.64	29.64	29.81	29.73	19.93	20.31	20.12
1.90	17.94	17.55	17.22	29.85	30.02	29.95	20.00	20.37	20.16
2.00	17.50	17.14	16.77	30.05	30.22	30.16	20.07	20.44	20.21
2.10	17.14	16.78	16.40	30.25	30.43	30.37	20.14	20.50	20.25
2.20	16.78	16.42	16.07	30.44	30.63	30.58	20.21	20.55	20.30
2.30	16.44	16.07	15.70	30.63	30.82	30.78	20.27	20.61	20.34
2.40	16.11	15.73	15.33	30.81	31.02	30.98	20.32	20.66	20.37
2.50	15.83	15.45	15.08	30.99	31.21	31.18	20.38	20.70	20.41
2.60	15.49	15.10	14.71	31.17	31.39	31.37	20.43	20.74	20.44
2.70	15.21	14.81	14.39	31.34	31.58	31.56	20.47	20.78	20.47
2.80	14.90	14.53	14.13	31.50	31.76	31.75	20.52	20.82	20.50
2.90	14.77	14.35	13.94	31.66	31.93	31.93	20.56	20.85	20.52
3.00	14.46	14.03	13.58	31.82	32.11	32.11	20.59	20.88	20.54
3.10	14.24	13.81	13.38	31.97	32.28	32.29	20.62	20.90	20.57
3.20	14.01	13.56	13.13	32.12	32.45	32.46	20.65	20.92	20.58
3.30	13.72	13.30	12.82	32.26	32.61	32.63	20.68	20.94	20.60
3.40	13.49	13.04	12.54	32.40	32.77	32.80	20.70	20.95	20.61
3.50	13.27	12.80	12.36	32.54	32.93	32.96	20.71	20.96	20.62
3.60	13.06	12.61	12.14	32.67	33.09	33.12	20.73	20.97	20.63
3.70	12.80	12.35	11.85	32.80	33.24	33.28	20.74	20.97	20.64
3.80	12.58	12.09	11.59	32.92	33.39	33.43	20.74	20.97	20.64
3.90	12.32	11.86	11.38	33.03	33.53	33.58	20.75	20.97	20.64
4.00	12.11	11.62	11.12	33.15	33.67	33.73	20.75	20.96	20.64
4.10	11.96	11.48	10.99	33.25	33.81	33.87	20.74	20.95	20.64
4.20	11.79	11.32	10.84	33.36	33.95	34.01	20.74	20.93	20.63
4.30	11.56	11.08	10.57	33.46	34.08	34.15	20.72	20.92	20.63
4.40	11.31	10.85	10.37	33.55	34.21	34.28	20.71	20.89	20.61
4.50	11.10	10.64	10.20	33.64	34.34	34.42	20.69	20.87	20.60
4.60	10.76	10.30	9.83	33.73	34.46	34.54	20.67	20.84	20.59
4.70	10.58	10.13	9.66	33.81	34.58	34.67	20.64	20.81	20.57
4.80	10.34	9.95	9.52	33.89	34.70	34.79	20.61	20.77	20.55
4.90	10.14	9.71	9.29	33.96	34.81	34.90	20.58	20.73	20.53
5.00	9.87	9.45	9.02	34.03	34.93	35.02	20.54	20.69	20.50
5.10	9.65	9.20	8.82	34.10	35.03	35.13	20.50	20.64	20.48
5.20	9.42	9.01	8.62	34.15	35.14	35.24	20.46	20.59	20.45
5.30	9.24	8.86	8.45	34.21	35.24	35.34	20.41	20.54	20.41
5.40	8.98	8.68	8.31	34.26	35.34	35.44	20.36	20.48	20.38
5.50	8.84	8.45	8.12	34.31	35.43	35.54	20.31	20.42	20.34
5.60	8.61	8.16	7.81	34.35	35.52	35.63	20.25	20.35	20.30
5.70	8.49	8.09	7.72	34.39	35.61	35.72	20.19	20.29	20.26
5.80	8.28	7.92	7.60	34.42	35.70	35.81	20.12	20.21	20.22
5.90	7.94	7.56	7.25	34.45	35.78	35.90	20.05	20.14	20.17
6.00	7.65	7.33	6.94	34.47	35.86	35.98	19.98	20.06	20.13

(1) Includes test board loss

(2) Drain current was allowed to increase during compression measurement

## Typical Performance Data

IDS (mA)	F <sub>MIN</sub> (dB) (1)					
	VDS=+2V		VDS=+3V		VDS=+4V	
	0.9 GHz	2 GHz	0.9 GHz	2 GHz	0.9 GHz	2 GHz
10.00	0.155	0.348	0.154	0.345		
15.00	0.153	0.347	0.135	0.306	0.134	0.302
20.00	0.166	0.370	0.134	0.303		
30.00	0.179	0.395	0.138	0.309	0.129	0.291
40.00	0.177	0.390	0.131	0.296	0.135	0.306
60.00	0.170	0.378	0.141	0.320	0.156	0.349

FREQUENCY (GHz)	F <sub>MIN</sub> (dB) (1)		
	VDS=3V		
	20 mA	30 mA	40 mA
0.50	0.07	0.08	0.07
0.70	0.10	0.11	0.10
0.90	0.13	0.14	0.13
1.00	0.15	0.15	0.15
1.90	0.29	0.29	0.28
2.00	0.30	0.31	0.30
2.40	0.36	0.37	0.36
3.00	0.46	0.47	0.45
3.90	0.59	0.60	0.58
5.00	0.76	0.78	0.75
5.80	0.88	0.90	0.87
6.00	0.91	0.93	0.90

(1) F MIN is minimum Noise Figure