

Typical Performance Data

Frequency (GHz)				RF IN = 12dBm			
				Conversion Loss (dB)	Harmonic Output* (-dBc)		
X1 Output	X2 Output	X3 Output	X4 Output	X2 Output	X1 Output	X3 Output	X4 Output
3.0	6.0	9.0	12.0	19.52	40.19	21.36	12.07
3.3	6.6	9.9	13.2	14.48	37.66	27.22	14.38
3.5	7.0	10.5	14.0	12.47	39.61	29.74	14.02
3.6	7.2	10.8	14.4	12.23	39.66	29.11	16.38
3.9	7.8	11.7	15.6	11.57	37.46	31.86	15.51
4.2	8.4	12.6	16.8	10.93	37.04	35.94	19.03
4.5	9.0	13.5	18.0	11.37	35.85	31.96	16.13
4.8	9.6	14.4	19.2	10.45	34.92	37.43	18.18
5.1	10.2	15.3	20.4	11.29	35.09	36.70	16.90
5.4	10.8	16.2	21.6	11.17	37.26	35.20	17.63
5.7	11.4	17.1	22.8	11.61	37.55	33.85	16.38
6.0	12.0	18.0	24.0	12.11	38.83	31.76	15.90
6.3	12.6	18.9	25.2	13.69	36.17	30.16	15.56
6.6	13.2	19.8	26.4	13.47	33.53	28.76	17.15
7.3	14.6	21.9	29.2	12.57	43.29	31.35	22.08
7.6	15.2	22.8	30.4	12.73	43.39	31.98	26.31
7.9	15.8	23.7	31.6	13.65	37.17	31.09	26.98
8.2	16.4	24.6	32.8	13.60	31.74	36.39	26.12
8.5	17.0	25.5	34.0	14.09	32.72	37.21	32.88
8.8	17.6	26.4	35.2	13.62	32.42	37.55	34.45
9.1	18.2	27.3	36.4	13.96	31.42	34.90	27.01
9.4	18.8	28.2	37.6	13.29	31.18	35.67	27.45
9.7	19.4	29.1	38.8	13.06	31.22	36.67	31.76
10.0	20.0	30.0	40.0	13.03	30.59	40.44	38.66
10.3	20.6	30.9	41.2	13.58	30.19	42.05	43.77
10.6	21.2	31.8	42.4	12.62	29.72	55.51	44.70
11.0	22.0	33.0	--	13.63	27.55	51.54	--
11.3	22.6	33.9	--	14.43	25.05	42.5	--
11.6	23.2	34.8	--	13.72	23.16	41.94	--
11.9	23.8	35.7	--	12.97	22.71	48.25	--
12.0	24.0	36.0	--	14.54	23.37	51.34	--
12.2	24.4	36.6	--	13.72	22.53	38.26	--
12.5	25.0	37.5	--	15.18	21.73	36.61	--
12.8	25.6	38.4	--	16.76	19.32	36.56	--
13.1	26.2	39.3	--	16.42	16.63	37.33	--
13.4	26.8	40.2	--	15.55	16.30	41.49	--
13.7	27.4	41.1	--	16.49	16.45	42.76	--
14.0	28.0	42.0	--	16.95	16.93	45.89	--
14.3	28.6	42.9	--	17.84	16.27	53.54	--
14.6	29.2	--	--	17.77	16.06	--	--
15.0	30.0	--	--	19.67	13.95	--	--

*Harmonic Output below power level of X2 Output .

Note: Die using MPI Tiran series 150 μm pitch GSG probe

Typical Performance Data

Frequency (GHz)				RF IN = 15dBm			
				Conversion Loss (dB)	Harmonic Output* (-dBc)		
X1 Output	X2 Output	X3 Output	X4 Output	X2 Output	X1 Output	X3 Output	X4 Output
3.0	6.0	9.0	12.0	19.02	32.99	20.65	10.59
3.3	6.6	9.9	13.2	15.11	36.44	21.98	14.59
3.5	7.0	10.5	14.0	13.64	37.32	24.80	15.54
3.6	7.2	10.8	14.4	13.42	37.07	25.03	19.97
3.9	7.8	11.7	15.6	12.87	34.62	27.31	17.81
4.2	8.4	12.6	16.8	12.21	34.24	30.44	25.08
4.5	9.0	13.5	18.0	12.55	32.67	27.86	19.82
4.8	9.6	14.4	19.2	11.21	32.71	32.18	22.99
5.1	10.2	15.3	20.4	12.18	32.08	31.50	20.89
5.4	10.8	16.2	21.6	11.75	33.93	31.92	22.57
5.7	11.4	17.1	22.8	12.18	33.05	30.35	19.54
6.0	12.0	18.0	24.0	12.54	34.37	28.96	17.10
6.3	12.6	18.9	25.2	13.99	31.98	26.99	15.66
6.6	13.2	19.8	26.4	13.67	29.35	25.39	16.08
7.3	14.6	21.9	29.2	12.84	32.40	28.81	18.65
7.6	15.2	22.8	30.4	12.74	35.61	30.67	20.66
7.9	15.8	23.7	31.6	13.38	37.69	30.49	22.12
8.2	16.4	24.6	32.8	13.27	46.75	34.28	22.62
8.5	17.0	25.5	34.0	13.70	48.00	34.27	28.08
8.8	17.6	26.4	35.2	13.17	42.66	36.33	30.60
9.1	18.2	27.3	36.4	13.53	39.78	37.57	23.31
9.4	18.8	28.2	37.6	12.90	36.74	36.00	24.52
9.7	19.4	29.1	38.8	12.48	36.46	36.96	28.45
10.0	20.0	30.0	40.0	12.12	34.89	40.76	32.64
10.3	20.6	30.9	41.2	12.65	33.84	40.90	35.73
10.6	21.2	31.8	42.4	12.38	31.64	47.05	37.69
11.0	22.0	33.0	--	12.81	29.68	44.66	--
11.3	22.6	33.9	--	13.59	26.61	40.33	--
11.6	23.2	34.8	--	13.46	23.72	42.63	--
11.9	23.8	35.7	--	13.23	23.10	42.67	--
12.0	24.0	36.0	--	13.76	23.71	42.12	--
12.2	24.4	36.6	--	13.83	21.53	34.36	--
12.5	25.0	37.5	--	14.74	20.32	33.74	--
12.8	25.6	38.4	--	16.18	17.16	33.89	--
13.1	26.2	39.3	--	16.42	13.73	35.65	--
13.4	26.8	40.2	--	15.61	14.77	39.39	--
13.7	27.4	41.1	--	15.96	16.60	38.93	--
14.0	28.0	42.0	--	15.58	18.47	42.43	--
14.3	28.6	42.9	--	16.87	18.11	46.11	--
14.6	29.2	--	--	17.44	17.88	--	--
15.0	30.0	--	--	19.39	15.84	--	--

*Harmonic Output below power level of X2 Output .

Note: Die using MPI Tiran series 150 μm pitch GSG probe

Typical Performance Data

Frequency (GHz)				RF IN = 18dBm			
				Conversion Loss (dB)	Harmonic Output* (-dBc)		
X1 Output	X2 Output	X3 Output	X4 Output	X2 Output	X1 Output	X3 Output	X4 Output
3.0	6.0	9.0	12.0	20.56	28.23	10.89	8.82
3.3	6.6	9.9	13.2	16.52	29.99	16.21	20.00
3.5	7.0	10.5	14.0	15.27	30.60	18.51	22.31
3.6	7.2	10.8	14.4	14.93	31.29	20.81	40.92
3.9	7.8	11.7	15.6	14.26	31.20	23.00	21.12
4.2	8.4	12.6	16.8	13.62	30.47	24.65	22.35
4.5	9.0	13.5	18.0	13.83	28.23	22.84	23.26
4.8	9.6	14.4	19.2	12.42	28.86	25.35	23.81
5.1	10.2	15.3	20.4	13.48	28.75	25.28	26.77
5.4	10.8	16.2	21.6	12.90	30.76	27.31	29.14
5.7	11.4	17.1	22.8	13.27	28.83	25.50	27.51
6.0	12.0	18.0	24.0	13.42	29.94	24.63	21.13
6.3	12.6	18.9	25.2	15.00	27.48	22.49	17.83
6.6	13.2	19.8	26.4	14.67	25.33	21.44	16.86
7.3	14.6	21.9	29.2	14.21	26.46	23.05	17.84
7.6	15.2	22.8	30.4	14.00	28.25	25.18	19.38
7.9	15.8	23.7	31.6	14.27	30.14	25.90	21.32
8.2	16.4	24.6	32.8	13.94	35.51	28.89	21.40
8.5	17.0	25.5	34.0	14.23	32.54	28.63	26.11
8.8	17.6	26.4	35.2	13.70	38.84	31.72	29.20
9.1	18.2	27.3	36.4	14.12	47.56	39.16	22.24
9.4	18.8	28.2	37.6	13.60	42.86	36.33	24.47
9.7	19.4	29.1	38.8	13.13	40.54	36.85	28.14
10.0	20.0	30.0	40.0	12.79	36.50	40.89	31.54
10.3	20.6	30.9	41.2	13.27	34.26	38.47	33.67
10.6	21.2	31.8	42.4	13.39	29.86	39.66	35.60
11.0	22.0	33.0	--	13.56	27.56	37.98	--
11.3	22.6	33.9	--	14.36	24.82	35.88	--
11.6	23.2	34.8	--	14.53	22.63	40.44	--
11.9	23.8	35.7	--	14.51	22.41	39.80	--
12.0	24.0	36.0	--	14.62	22.30	37.88	--
12.2	24.4	36.6	--	15.07	19.45	31.84	--
12.5	25.0	37.5	--	15.83	18.09	30.86	--
12.8	25.6	38.4	--	17.25	15.07	31.31	--
13.1	26.2	39.3	--	17.67	11.37	33.69	--
13.4	26.8	40.2	--	16.69	13.22	36.82	--
13.7	27.4	41.1	--	16.83	15.50	34.89	--
14.0	28.0	42.0	--	15.88	18.07	38.19	--
14.3	28.6	42.9	--	17.25	18.02	39.35	--
14.6	29.2	--	--	18.29	18.13	--	--
15.0	30.0	--	--	20.21	16.36	--	--

*Harmonic Output below power level of X2 Output .

Note: Die using MPI Tiran series 150 μm pitch GSG probe

