4-29-00

110 GHz / 220 GHz doubler, preliminary performance

Input Freq. (GHz)	Input Power (mW)	Output Power (mW)	Output Power (mW)	Output Power (mW)	Efficiency (%)
102	13.0		0.1	0.2	1.5
104	23.2		0.1	0.2	0.9
106	30.8		0.3	0.4	1.3
108	26.9		0.9	1.1	4.1
110	31.2		1.6	2.0	6.4
112	34.6	2.2 (Bias=-3.1V)	2.1	1.8	6.4
114	24.1	2.2 (Bias=-5.2V)			9.1
116	11.5	0.4 (Bias=-3.2V)			3.5
	Uncal	Varactor operation	Varistor operation 10 μA Fwd.current	Varistor operation 100 μA Fwd. current	

Uncalibrated output power level measurements

29 April, 2000.