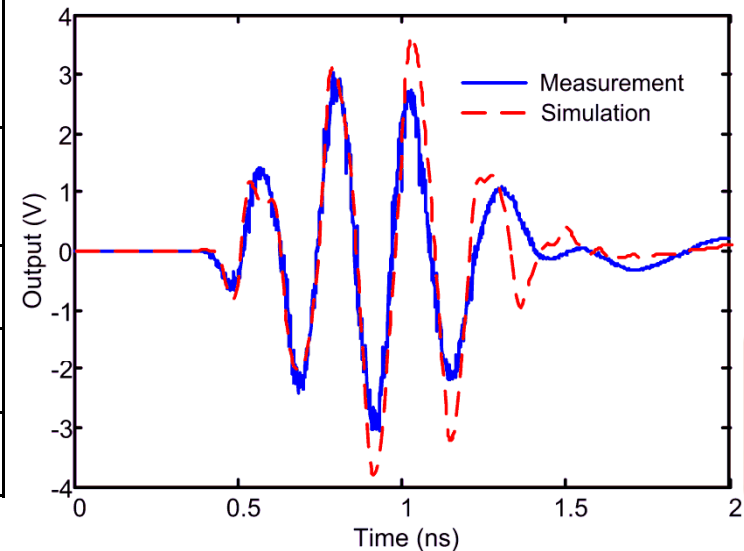
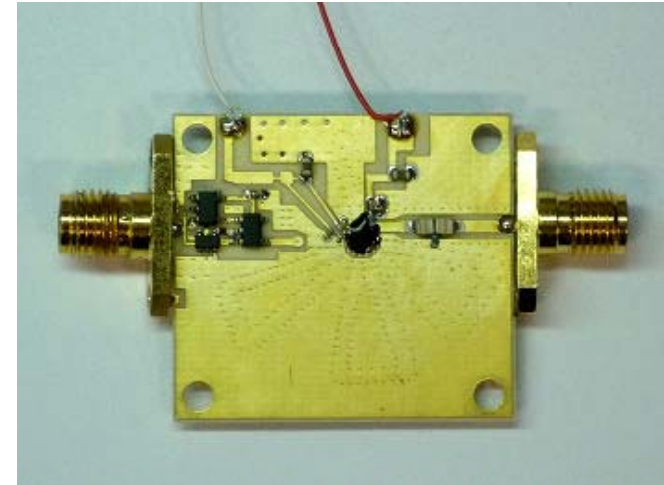


UWB High Peak Power Pulse Generator (HBT MMIC)

- 4 stage Distributed Amplifier topology
- Vout is Gaussian Derivative with 6.4Vpp
- Average DC Power Consumption is 1mW for 1MHz PRF
- Drives 50 ohms load



	OUTPUT PULSE PEAK TO PEAK AMPLITUDE (V)	DC Power Consumption (mW)	PRF	FOM pJ/V
This Work	6.4	1	1MHz	156
[2]	0.26	31.3	100MHz	1203
[3]	0.2	2	40MHz	250
[7]	0.45	10	80MHz	277