

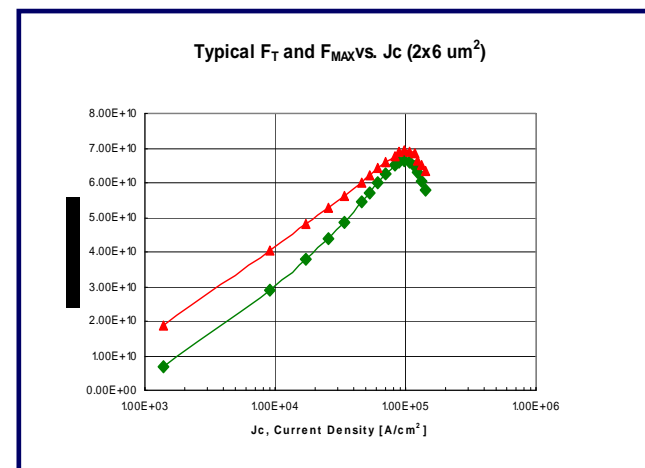
# VCO InGaP HBT (D1) Process



Our high frequency VCO InGaP HBT process with integrated varactor, with  $F_t$  in the 60 GHz range, exhibits a super low phase noise of -110 dBc/Hz at 100KHz offset for center frequency of up to 15 GHz as demonstrated in many VCO products in the market. In addition, this process is also proven to be excellent for prescaler and other phase detector MMICs.

## Typical Applications

- Frequency Sources:
  - VCO, VCO/Buffer Amp, Multipliers, Prescalars, etc.
- Modulators/Detectors
- OC48, OC192:
  - Laser Driver, TIA, LA, etc.



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Phase noise:  $-105\text{dBc}/\text{Hz}$  @ 100kHz offset for  $f_0$  of up to 15GHz

