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EE526 PROJECT

LC VCO

1. Designing LC VTO
   1. Lopt = 12nH
   2. (W/L)1,2 = (7u/.18u) = 38.888
   3. Varactor sizes (M3 and M4)
      1. W = 50u
      2. L = 10 u
   4. Plot (10 cycles)

A screen shot of a graph

Description automatically generated

* 1. FFT

A graph showing a graph

Description automatically generated with medium confidence

A screenshot of a computer

Description automatically generated

1. Vo,cm = (0.94901+.189043)/2 = **.569V**
2. Vcont = **1.2V**

A graph of a function

Description automatically generated

1. Netlist

A screenshot of a computer program

Description automatically generated

Schematic:

A diagram of a computer

Description automatically generated

1. VCO frequency at different values (Vcont)

A graph with a dotted line

Description automatically generated