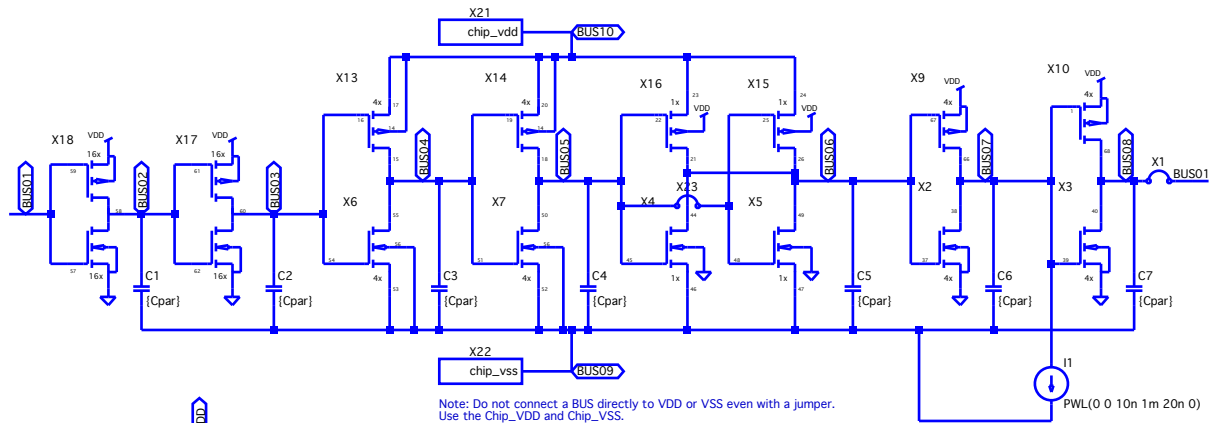
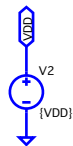


Seven Stage Ring Oscillator 16-16-4-4-2-4-4 7stage_RO



Note: Do not connect a BUS directly to VDD or VSS even with a jumper.
Use the Chip_VDD and Chip_VSS.



Models and Global Parameters	Measurements
.global VDD	.meas tran zc1 find time when v(bus01) = 1.25 rise=20
.param VDD = 2.5	.meas tran zc2 find time when v(bus01) = 1.25 rise=21
.inc transistor_models_tsmc025_public.inc	.meas tran freq param 1/(zc2-zc1)
Simulation Command	Circuit Parameters
.tran 10u	.param Cpar=200p

Note: Do not connect a BUS directly to VDD or VSS even with a jumper. Use the Chip_VDD and Chip_VSS.