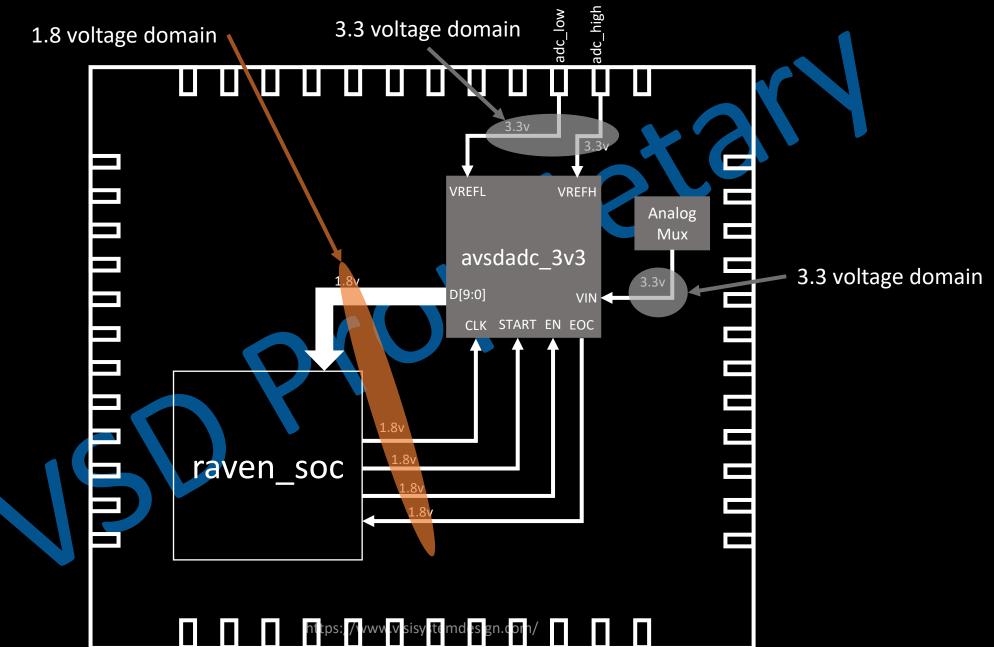
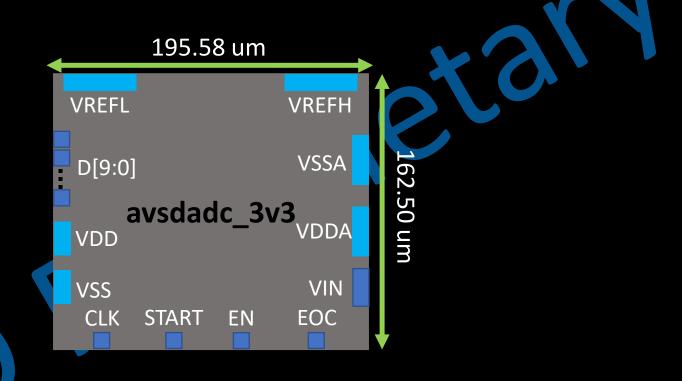
DISCLAIMER by VSD Corp. Pvt. Ltd.

- ADC (avsdadc_3v3) spec sheet for 180nm tech node
- Original Specs from XFAB and Recreated by VSD Corp. Pvt. Ltd.
- To be used only for Educational purposes
- Please contact Kunal at <u>kunalpghosh@gmail.com</u> in case of any doubts

Application Note for adc (avsdadc_3v3)



<u>avsdadc_3v3 preferred dimensions,</u> <u>pin locations and metal layers</u>



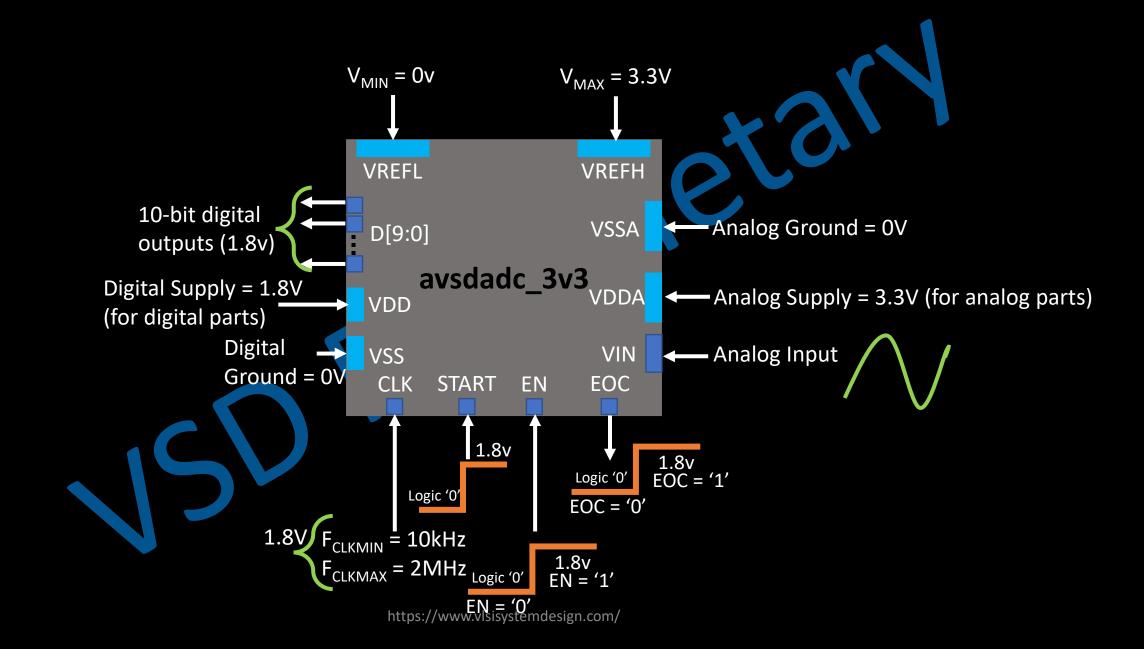


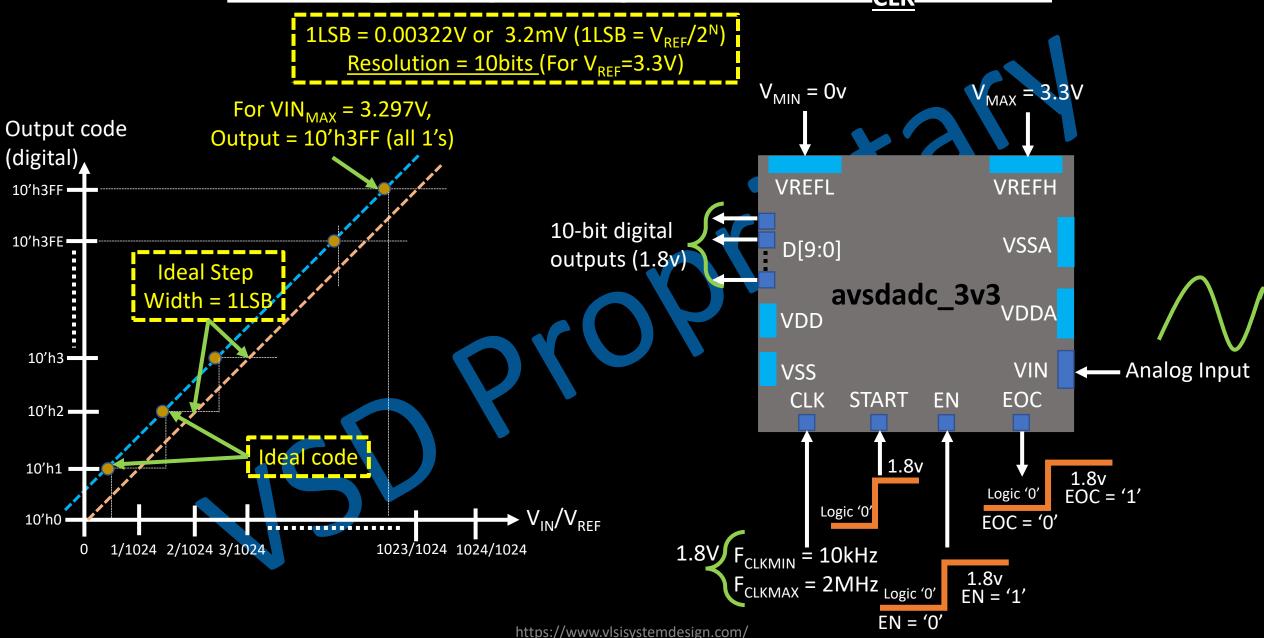
VDDA, VSSA pins (metal2) – 0.4um x 3um

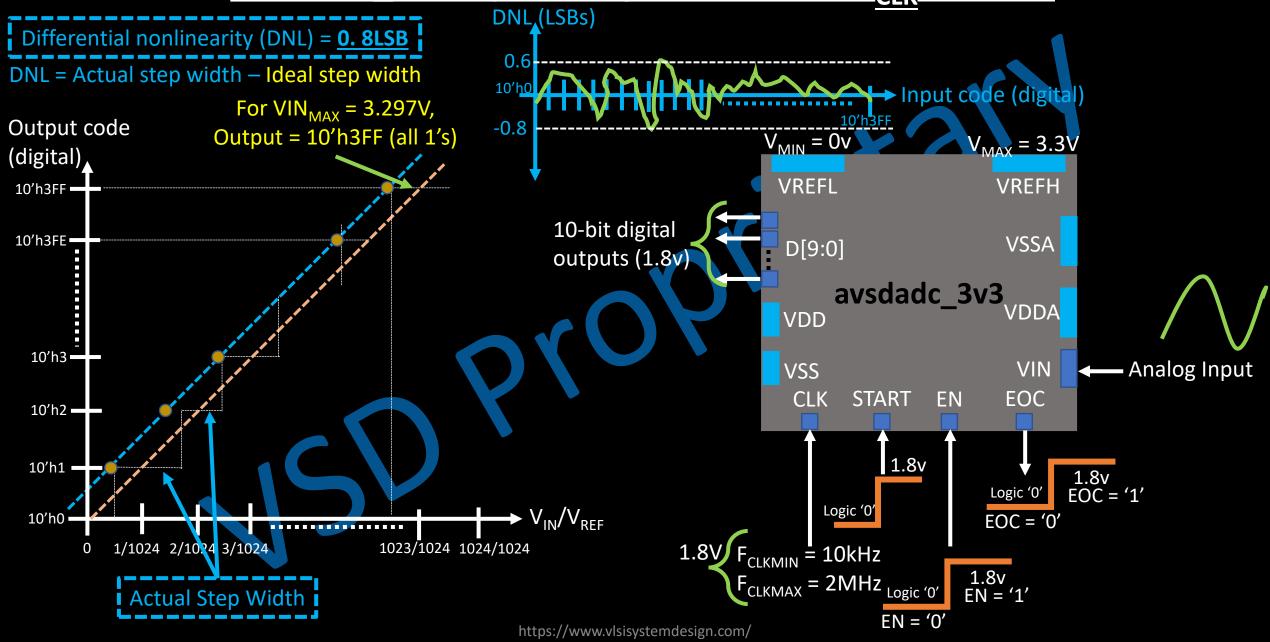
VREFL, VREFH pins (metal2) – 9.48um x 0.4um

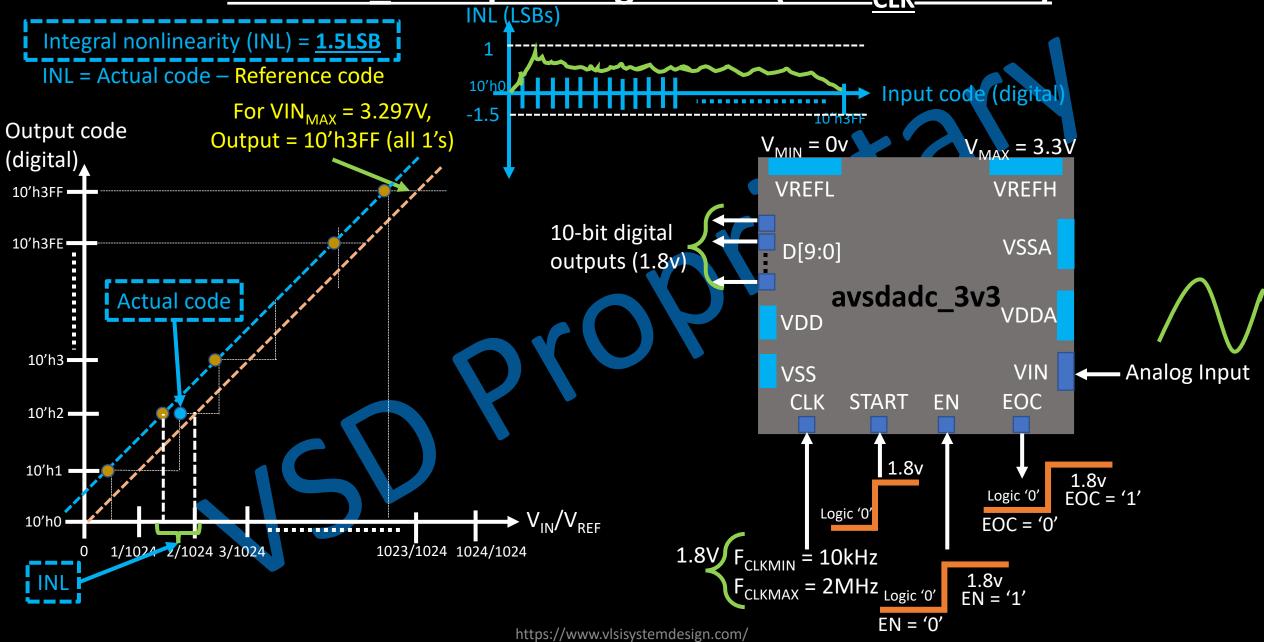
■ VDD, VSS pins (metal2) – 0.4um x 1.5um

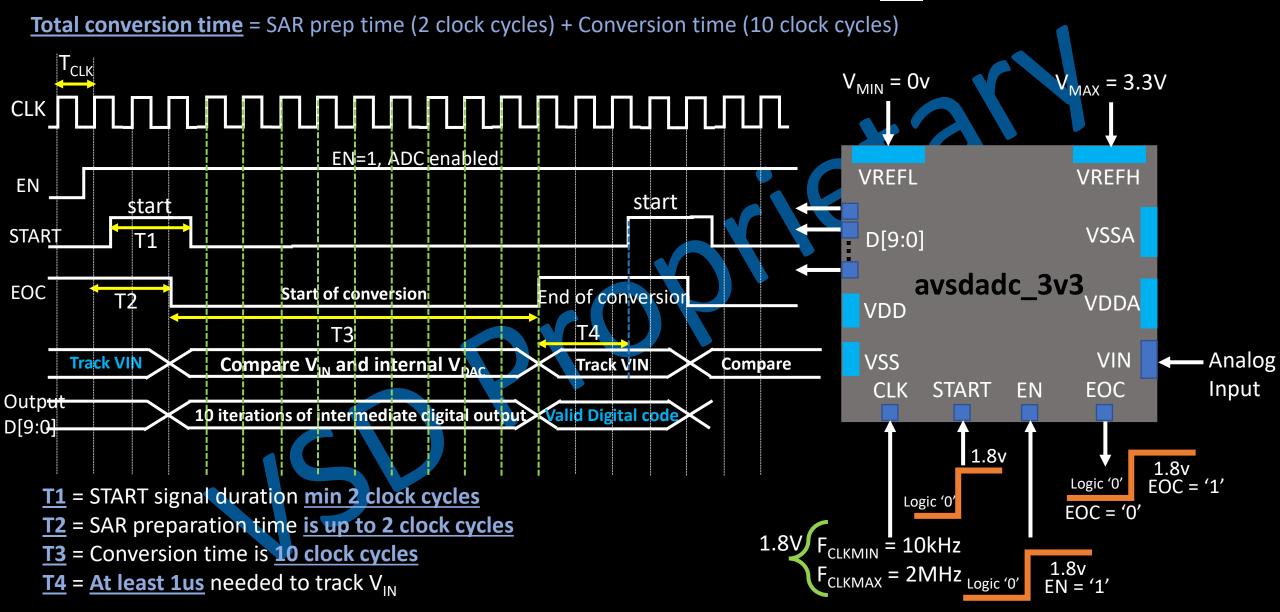
avsdadc_3v3 operating modes











avsdadc_3v3 plots and values needed

- 1) DNL vs Digital code at $V_{REF} = V_{DD} = 3.3V$; $F_{CLK} = 2MHz$ and T = 20C
- 2) INL vs Digital code at $V_{REF} = V_{DD} = 3.3V$; $F_{CLK} = 2MHz$ and T = 20C
- 3) DNL vs Digital code at V_{REF} = 1.25V, V_{DD} = 3.3V; F_{CLK} = 2MHz & 1MHz and T=20C
- 4) INL vs Digital code at V_{REF} =1.25V, V_{DD} =3.3V; F_{CLK} =2MHz & 1MHz and T=20C