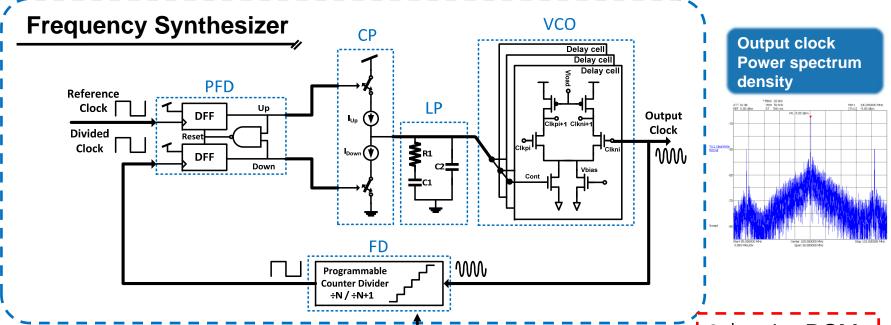


PLL-Based Fractional-N Frequency Synthesizer



PLL-based fractional-N frequency synthesizer

✓ Input : 12.5 MHz

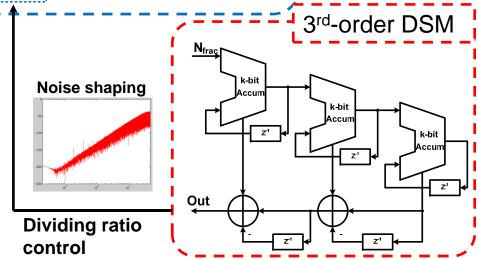
✓ Output : 50 ~ 250MHz

✓ Resolution : 50 kHz

✓ Integer code : 5 bit

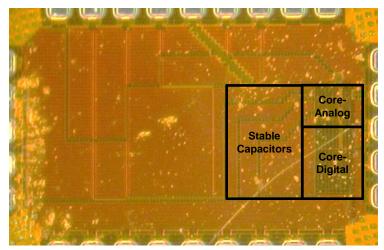
Fractional code : 7 bit

✓ RMS Jitter: 0.0007 UI





PLL-Based Fractional-N Frequency Synthesizer



Die photographs



2011 SoC 학술대회 Presentation

- Successfully achieves fractional-N frequency synthesizer for frequency synthesis from 50 MHz to 250 MHz with 50 kHz frequency resolution.
- There is no fractional spur, clean output clock.
- Delta-sigma modulator design technique of this fractional-N frequency synthesizer was presented in 2011 SoC학술대회.

[Study of Spur Reduction Technique for MASH Delta-Sigma Modulator]