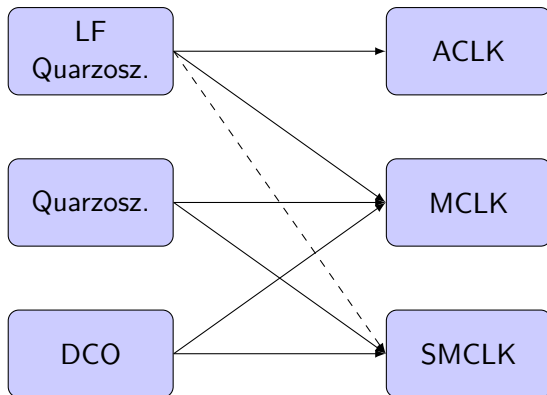


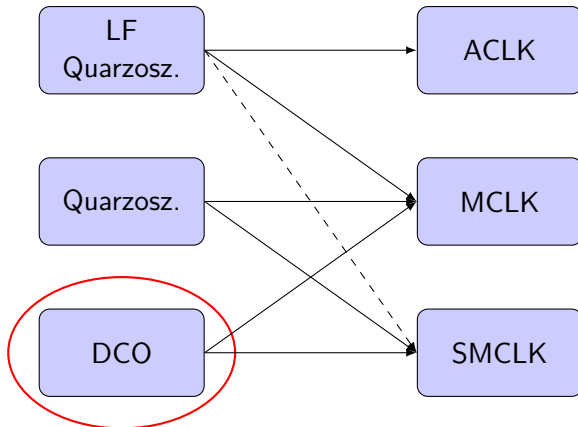
# DCO

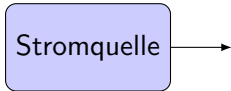
## Digitally-Controlled Oscillator

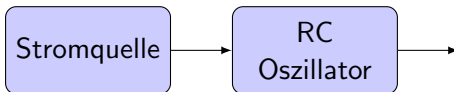
Daniel Winz

19. März 2013

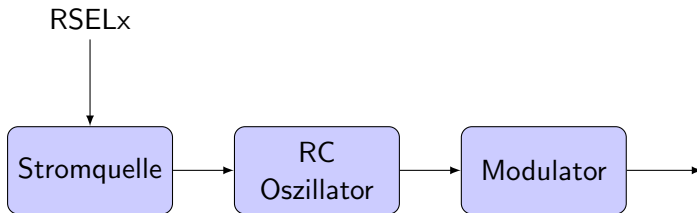


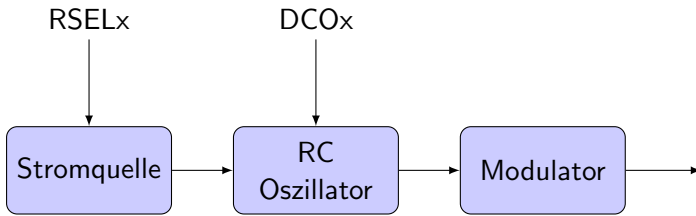




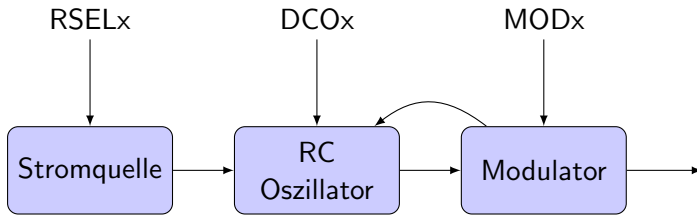




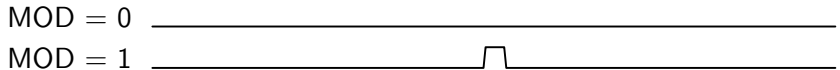


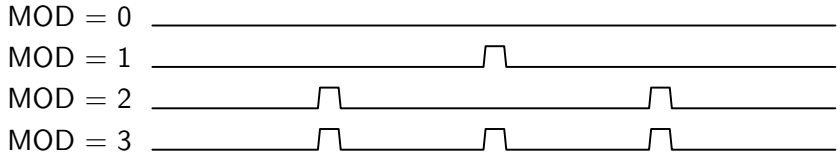


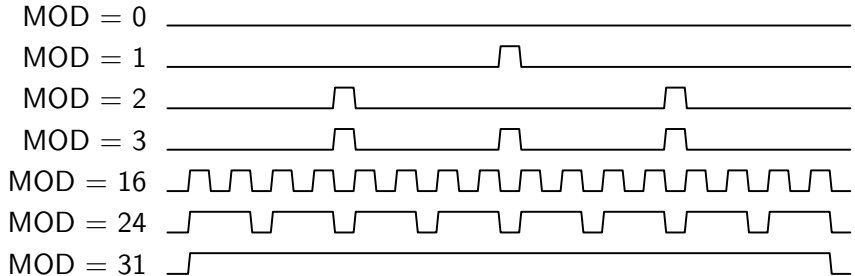




MOD = 0 \_\_\_\_\_







MSP430G2x53  
MSP430G2x13[www.ti.com](http://www.ti.com)

SLAS735H – APRIL 2011 – REVISED FEBRUARY 2013

## DCO Frequency

over recommended ranges of supply voltage and operating free-air temperature (unless otherwise noted)

PARAMETER		TEST CONDITIONS	V <sub>CC</sub>	MIN	TYP	MAX	UNIT
V <sub>CC</sub>	Supply voltage	RSELx < 14		1.8		3.6	V
		RSELx = 14		2.2		3.6	
		RSELx = 15		3		3.6	
f <sub>DCO(0,0)</sub>	DCO frequency (0, 0)	RSELx = 0, DCOx = 0, MODx = 0	3 V	0.06		0.14	MHz
f <sub>DCO(0,3)</sub>	DCO frequency (0, 3)	RSELx = 0, DCOx = 3, MODx = 0	3 V	0.07		0.17	MHz
f <sub>DCO(1,3)</sub>	DCO frequency (1, 3)	RSELx = 1, DCOx = 3, MODx = 0	3 V		0.15		MHz
f <sub>DCO(2,3)</sub>	DCO frequency (2, 3)	RSELx = 2, DCOx = 3, MODx = 0	3 V		0.21		MHz

Abbildung: Auszug aus dem Datenblatt des MSP430G2553

- Texas Instruments

- Texas Instruments  
MSP430F2x  $\rightarrow \pm 1\%$



- Texas Instruments  
MSP430F2x  $\rightarrow \pm 1\%$
- Inbetriebnahme

- Texas Instruments  
MSP430F2x  $\rightarrow \pm 1\%$
- Inbetriebnahme
- FLL