

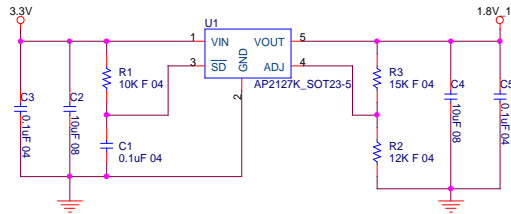
# AP2127K\_SOT23-5

Iout min : 300mA  
Vin : 2.5V~6V  
Vref : 0.8V  
Vdrop max : 0.7V @ 1.8V/300mA  
0.3V  
@ 2.8V/300mA  
JA : 250°C/W

## +3.3V-->+1.8V LDO(+3.3V/136mA-->1.8V/136mA)

Drop Voltage=3.3V-1.8V=1.5V >Spec 0.7V  
PD=(3.3V-1.8V)\*0.136A=0.204W <Spec 0.4W  
Tj=(0.204W\*250C/W)+50C=101C<Spec 150°C

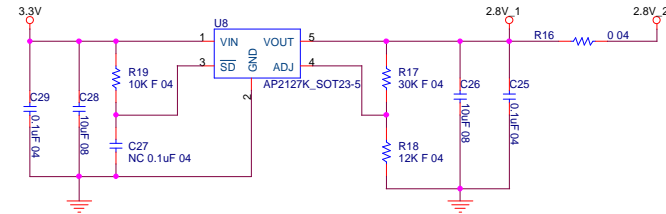
$$V_{out} = 0.8(1 + (R_{up} / R_{down})) = 0.8(1 + (15/12)) = 1.8V$$



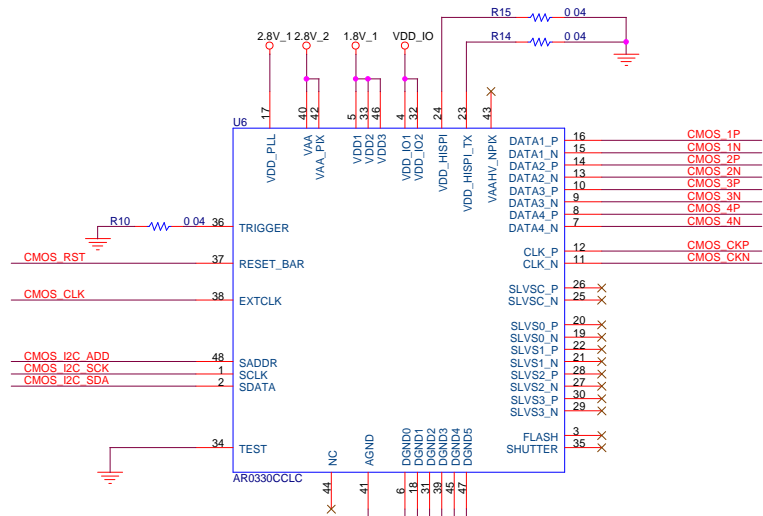
## +3.3V-->+2.8V LDO(+3.3V/141mA-->2.8V/141mA)

Drop Voltage=3.3V-2.8V=0.5V >Spec 0.3V  
PD=(3.3V-2.8V)\*0.141A=0.0705W <Spec 0.4W  
Tj=(0.0705W\*250C/W)+50C=67.625C<Spec 150°C

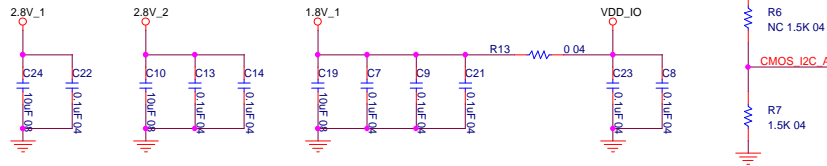
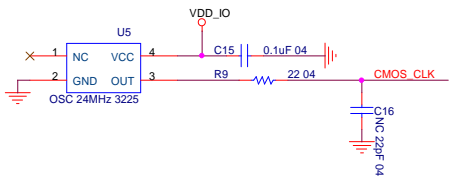
$$V_{out} = 0.8(1 + (R_{up} / R_{down})) = 0.8(1 + (30/12)) = 2.8V$$



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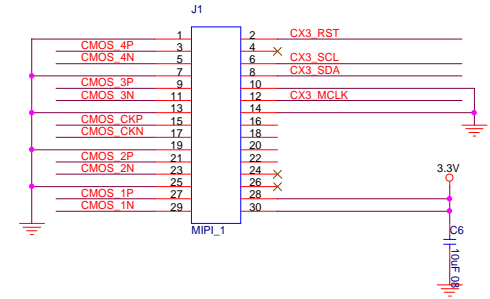


FLASH : Flash output. Synchronization pulse for external light source. Can be left floating if not used.  
SHUTTER : Control for external mechanical shutter. Can be left floating if not used.

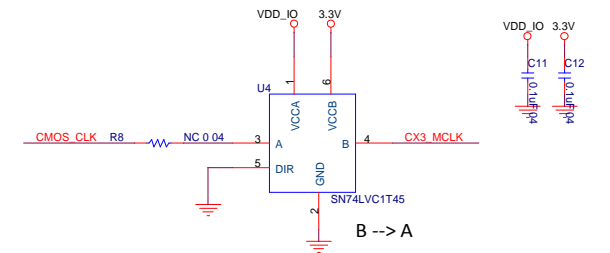


CMOS\_I2C\_ADD  
L : 0x20 (write) and 0x21(read) .  
H : 0x30 (WRITE) and 0x32 (READ)

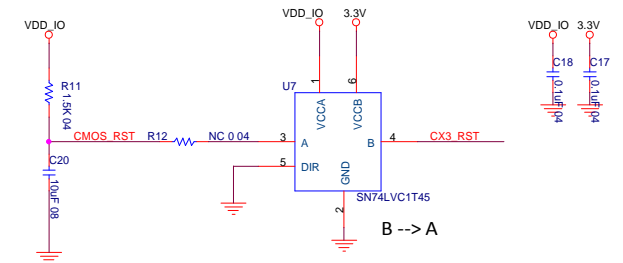
## CMOS --> CX3



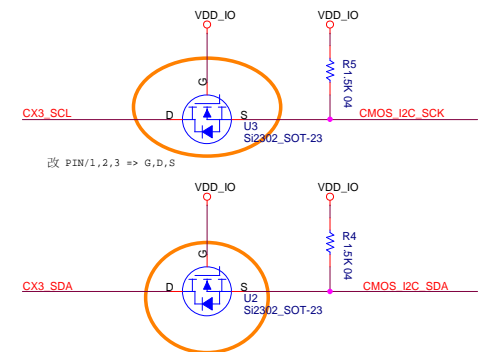
## 1.8V <--> 3.3V



B --> A



B --> A



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