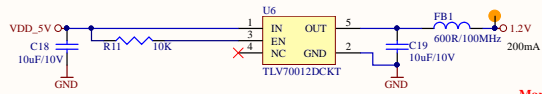
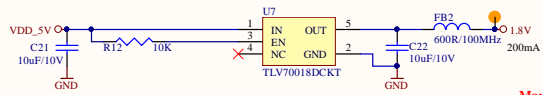


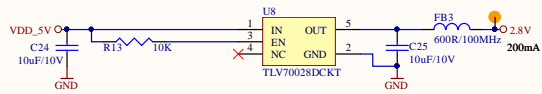
**POWER**



Mark "1V2" on PCB



Mark "1V8" on PCB

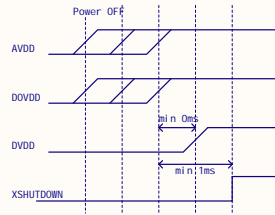


Mark "2V8" on PCB

Add capacitor to ground to make RC timing circuit for EN pins in order to obtain the appropriate power supply sequencing if necessary



Power Supply Sequence & Requirments



1. AVDD rising can occur before or after DOVDD rising as long as they are rising before XSHUTDOWN rising
2. XSHUTDOWN is pulled up after AVDD and DOVDD are stable
3. DVDD rises after DOVDD, but before XSHUTDOWN is pulled high

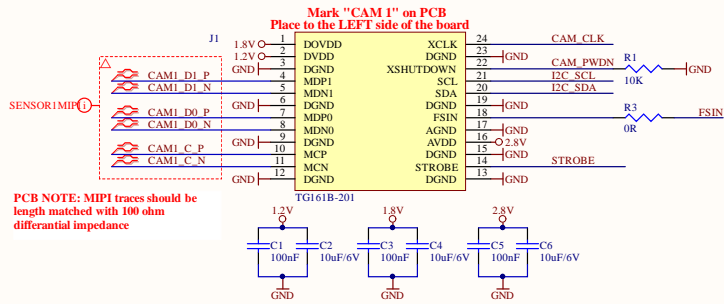
# BG0250TG

# Revision: R0M0E0

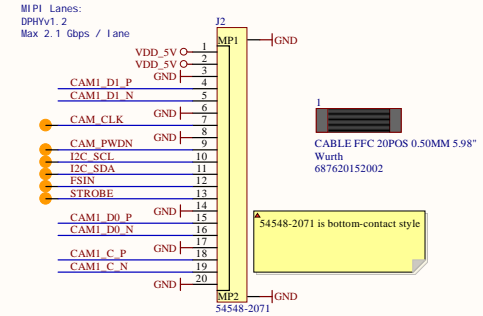
## MODULE CONNECTOR

MODULE & SENSOR INFORMATION			
MODULE	TG161B-201 OR AN01V32-0JG	I2C Clock Rate	400 kHz Max
SENSOR	OV09282-GA4A 8M 1 Mega pixel CMOS 1/4 inch	I2C Address (8 bits)	0xC0(W) 0xC1(R)
MAX RESOLUTION	1280X800	Sensor Clock Input	6 - 64 MHz (24 MHz typ.)

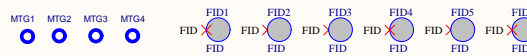
Supply Information			
Supply Name	Module	Sensor	Max Current
DOVDD	VDD-I/O	1.8V	2.5mA
DVDD	VDD-D	1.2V	52mA
AVDD	VDD-A	2.8V	24mA



## FFC CONNECTION



The Camera connector wraps around the board.  
 - The board thickness is 1.60mm.  
 - The thickness of the module's flex circuit is 0.16mm according to my calipers, so a 5x bend radius on that is 0.8mm radius so 1.6mm diameter. So bending to be flush w/ the board is technically OK according to general rules of thumb (5x FPCB thickness bend radius).  
 - If bending to flush with board, this takes  $\pi/2 * 1.6$  (since it's a half-circle) off the length of the connector, so 2.623mm off the connector.  
 - Probably want to plan on much more than that, to leave a bit of slack. The Google Coral camera left approximately 2.8mm of slack, for example.  
 - So going by that, 2.623mm absolute minimum + 2.8mm = 5.423mm of FFC length do the 180-degree bend, which let's round to 5.5mm to keep things clean on the PCB.



Title <b>BG0250TG</b>			Luxonis Holding 1925 Harmony Park Drive Westminster, CO 80234 United States
Size: Tabloid	Number: D0000999	Revision: R0M0E0	
Date: 10/14/2019	Time: 7:40:08 PM	Sheet 2 of 2	
Drawn by: Brandon Gilles			