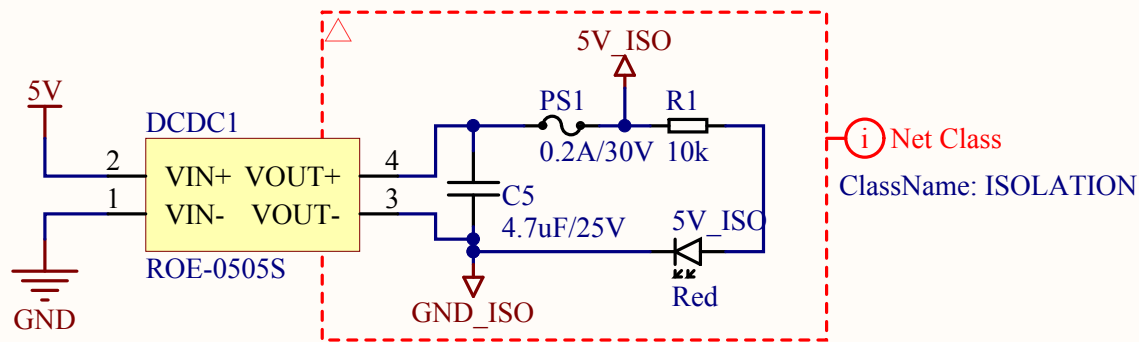
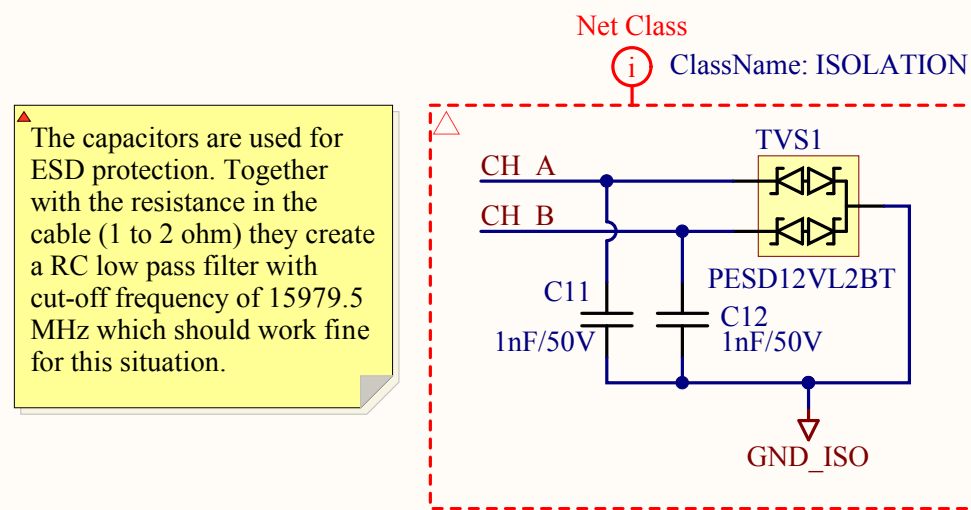
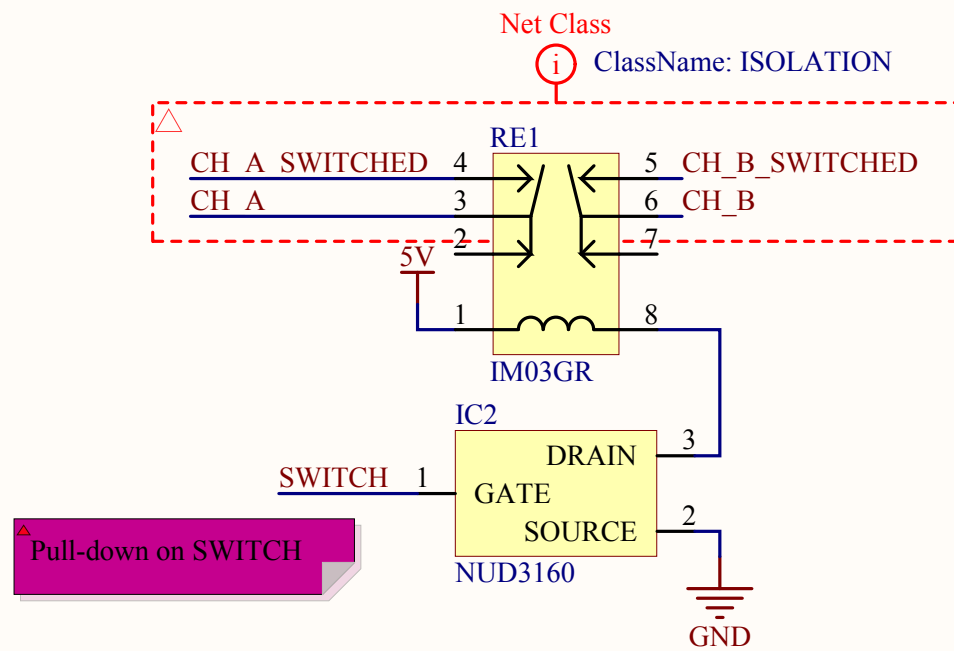
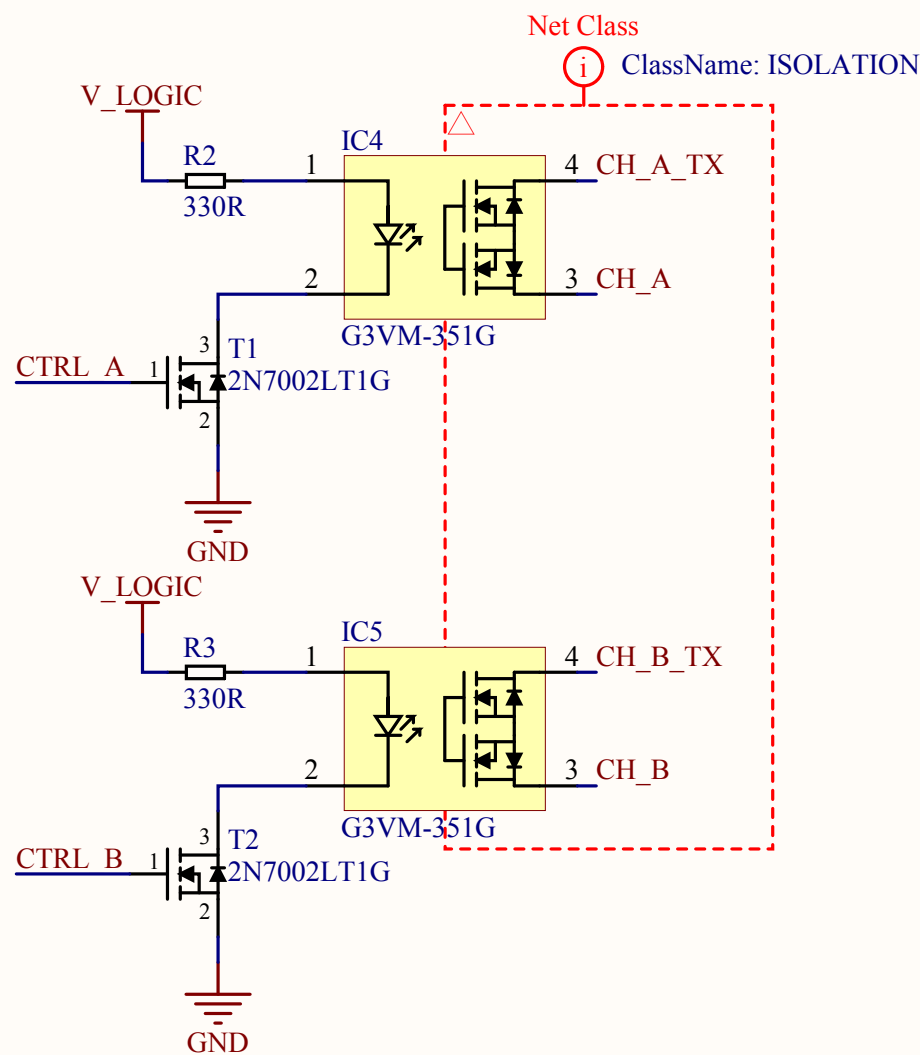
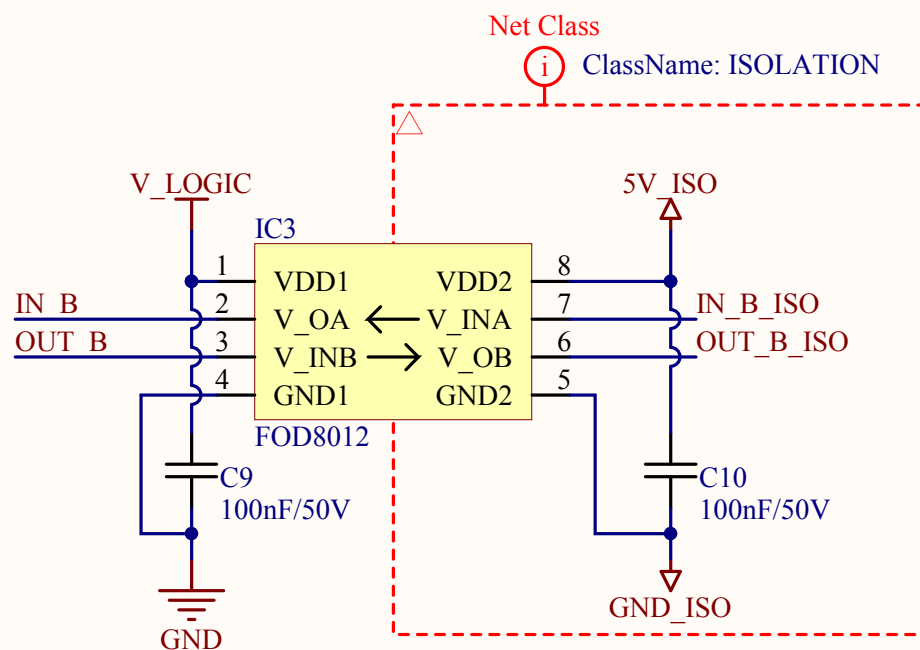
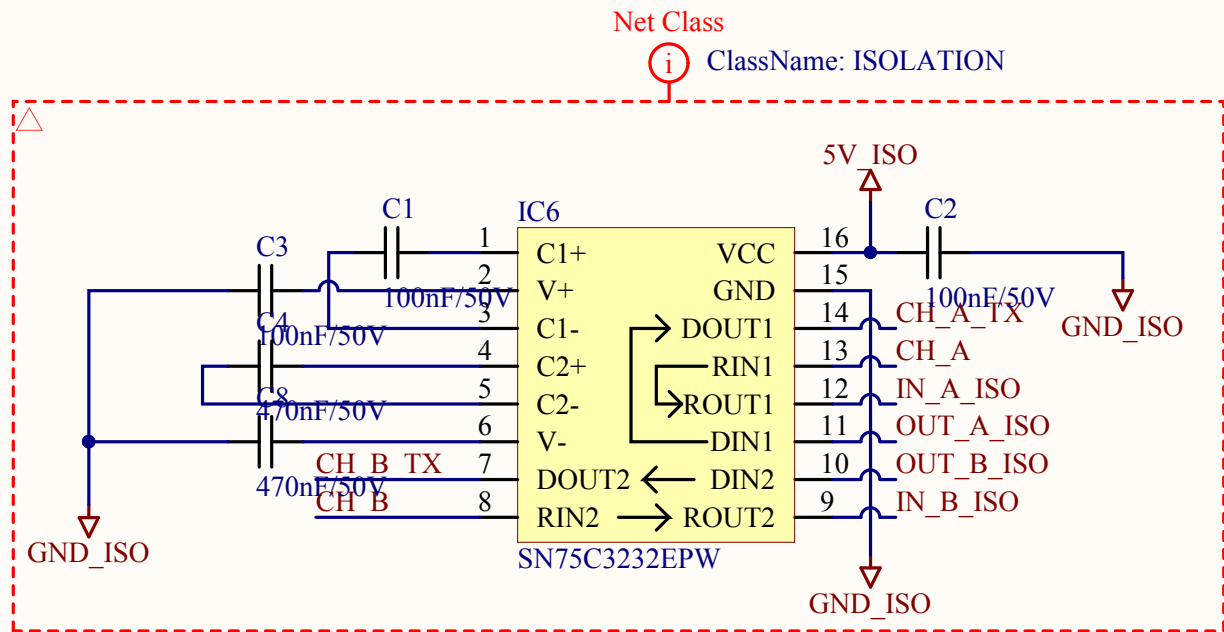
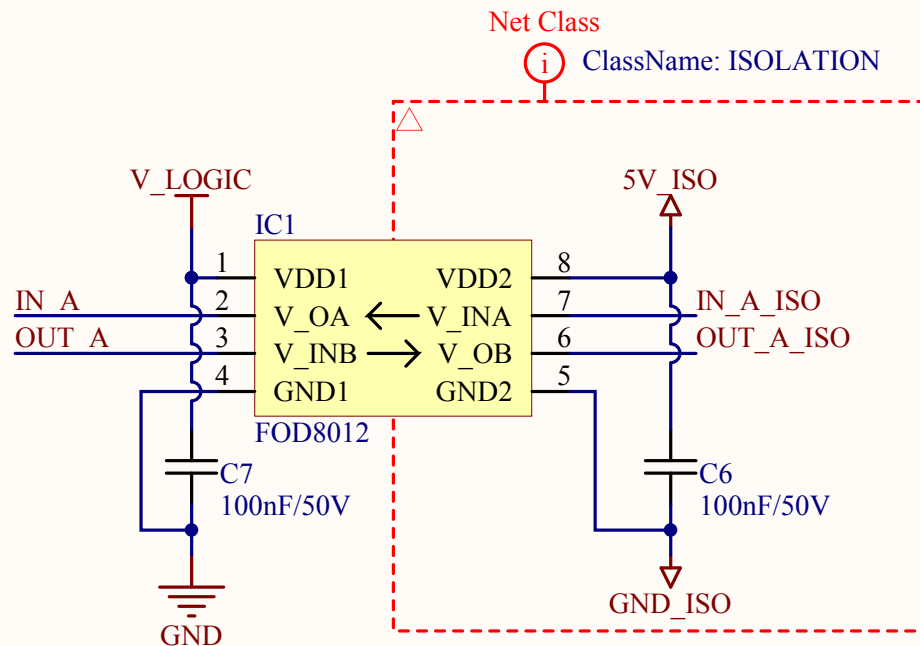


RS-232

- Notes
- Calculations
- Important Note
- Software Note
- Mounting Note
- To fix



Current Usage 5V\_ISO:  
FOD8012: 2x8 mA max = 16 mA  
SN75C3232EPW: 1 mA supply  
= 17 mA max

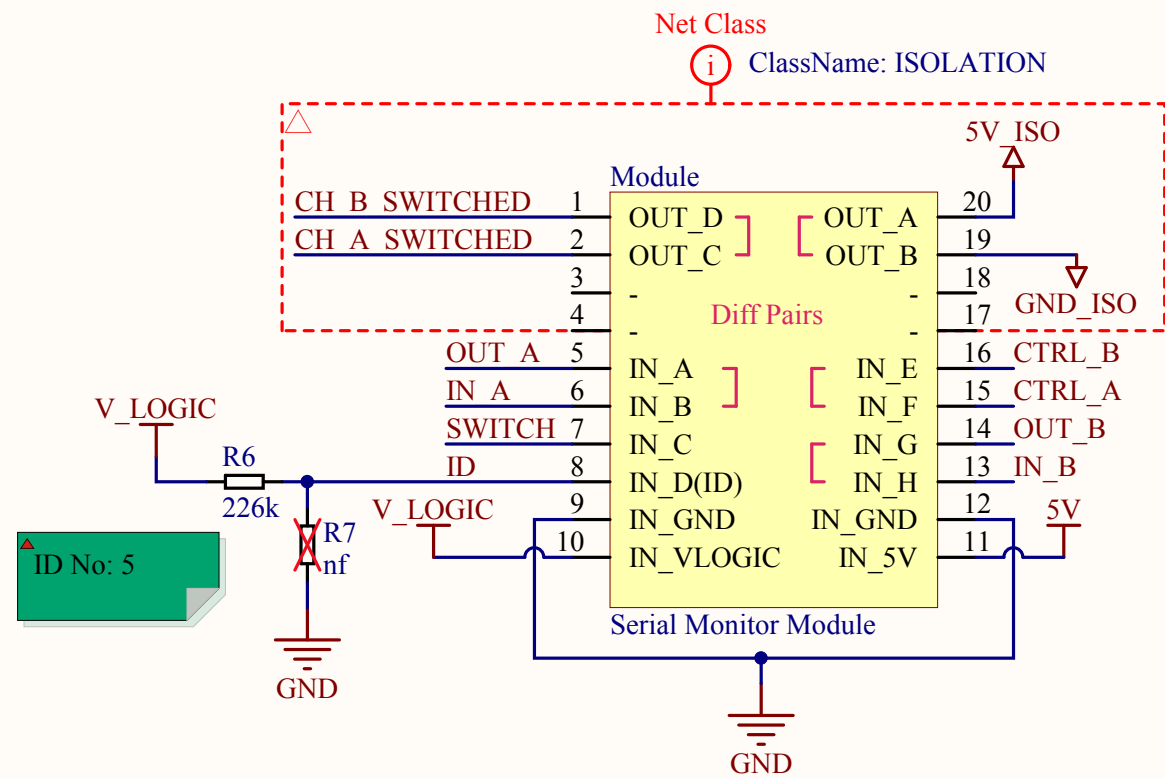
ROE-0505S 200mA out max  
-> 200-17 = 183 mA left

Add load resistor on 5V\_ISO to get  
better output voltage at standby

G3VM-315G V\_forward: 1.15V typ.  
Operating current: 5-7.5-25mA  
Max current: 50mA  
@5V\_logic -> 11.67mA  
@3.3V\_logic -> 6.52mA

CTRL_A	CTRL_B	Mode
0	0	A in, B In
0	1	A in, B Out
1	0	A out, B in
1	1	A out, B out

The SSRs above will connect or disconnect the TX drivers from the output. This way we can choose if output A and B should be an output or input. (When set to output it will act as a loopback as the output is then connected to the input of the RS-232 driver IC)



Title: RS-232 Module

Size: A3

Number: 1

Revision: Rev 1

Date: 9/12/2015

Time: 12:56:35 PM

Sheet 1 of 1

File: Serial Monitor RS-232 Module Schematic.SchDoc