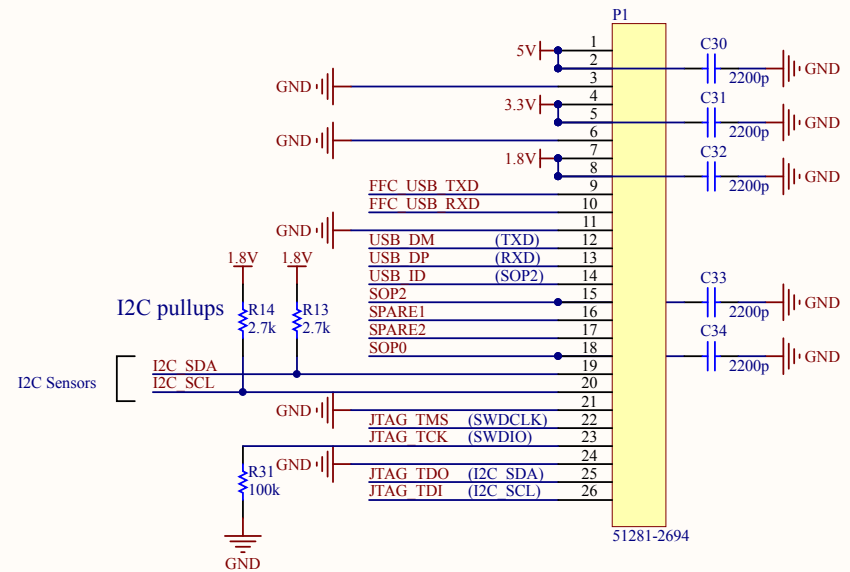


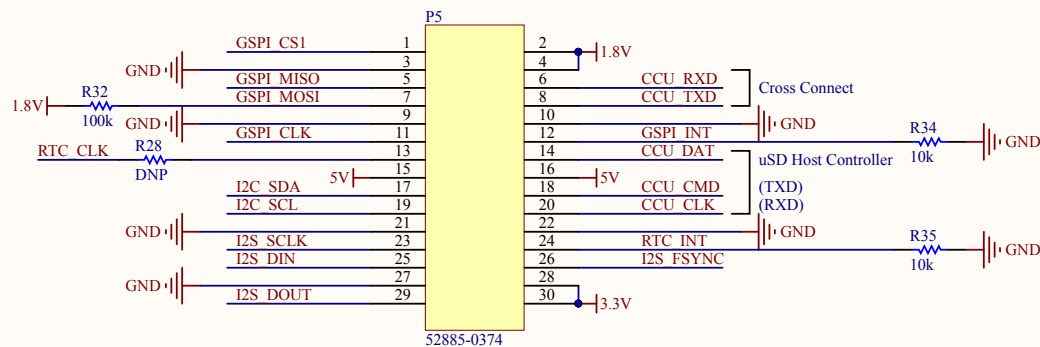
mounting holes



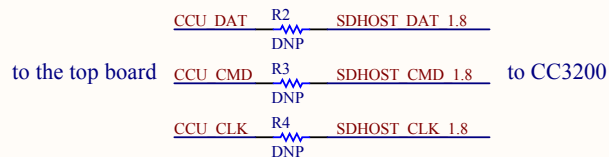
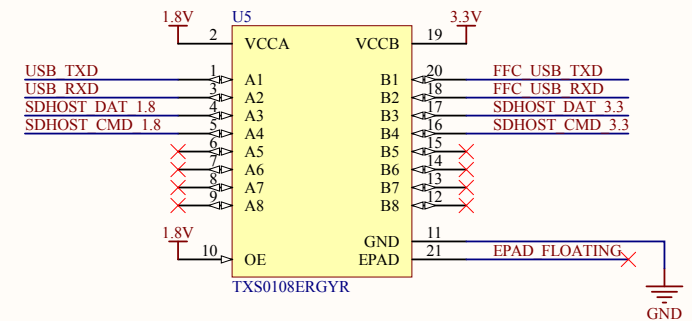
to the bottom board



to the top board

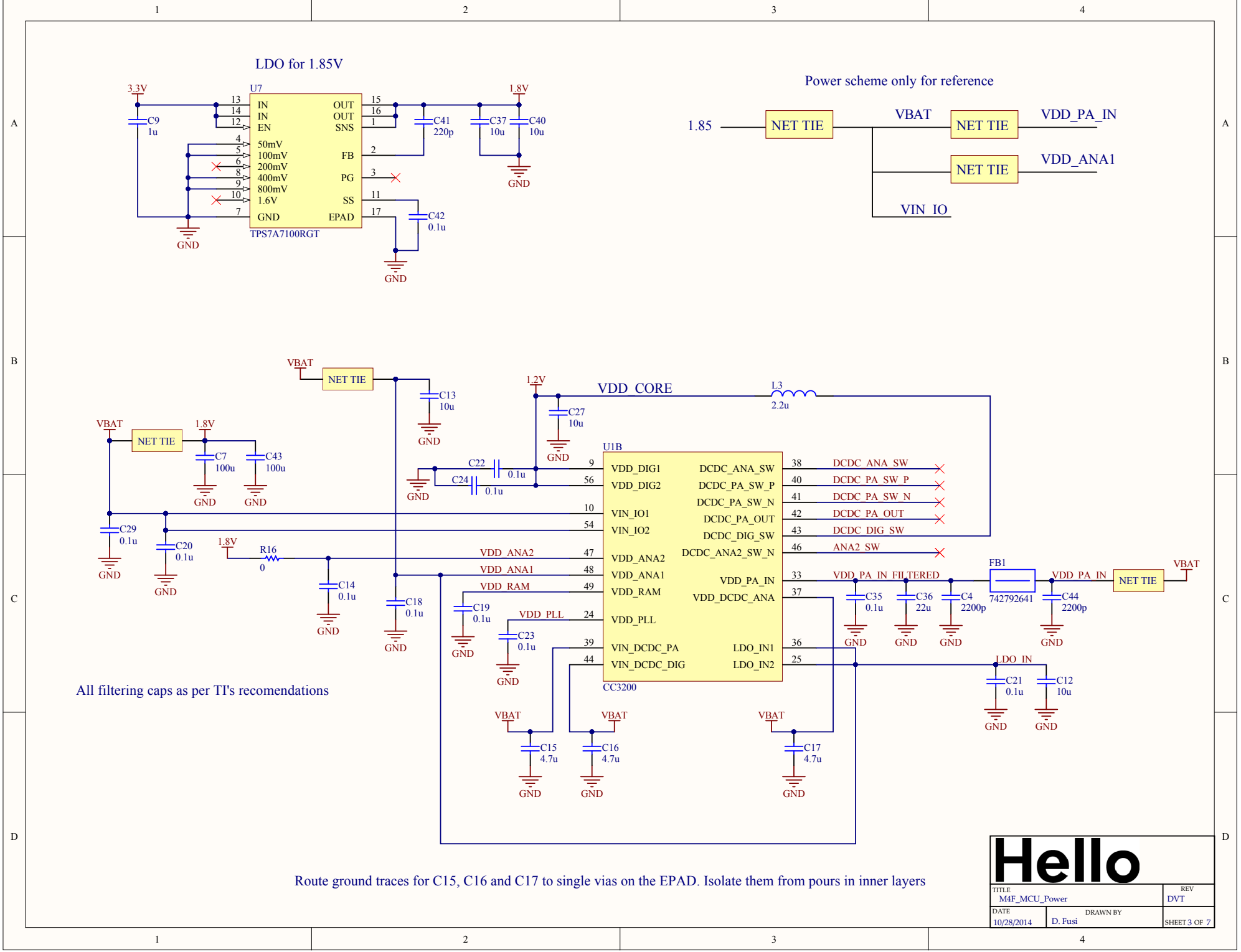


8-bit level shifter



Hello

TITLE Morpheus_middle		REV DVT
DATE 10/29/2014	DRAWN BY D. Fusi	SHEET 2 OF 7



LDO for 1.85V

Power scheme only for reference

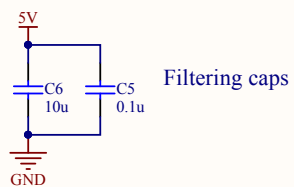
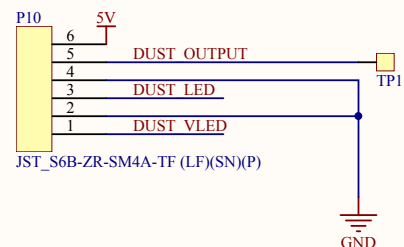
All filtering caps as per TI's recommendations

Route ground traces for C15, C16 and C17 to single vias on the EPAD. Isolate them from pours in inner layers

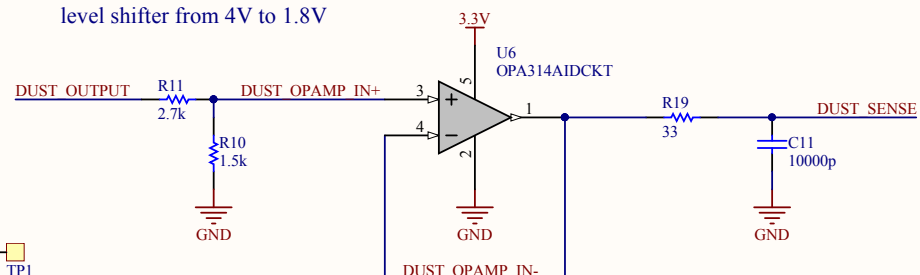
Hello

TITLE		REV
M4F_MCU_Power		DVT
DATE	DRAWN BY	
10/28/2014	D. Fusi	SHEET 3 OF 7

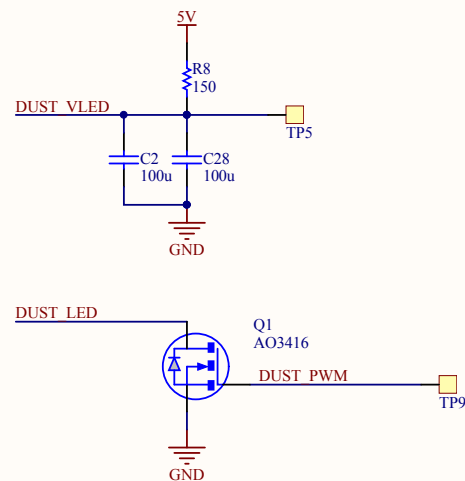
Connector for Sharp dust sensor GP2Y1010AU0F



level shifter from 4V to 1.8V



As on the GP2Y1010 datasheet

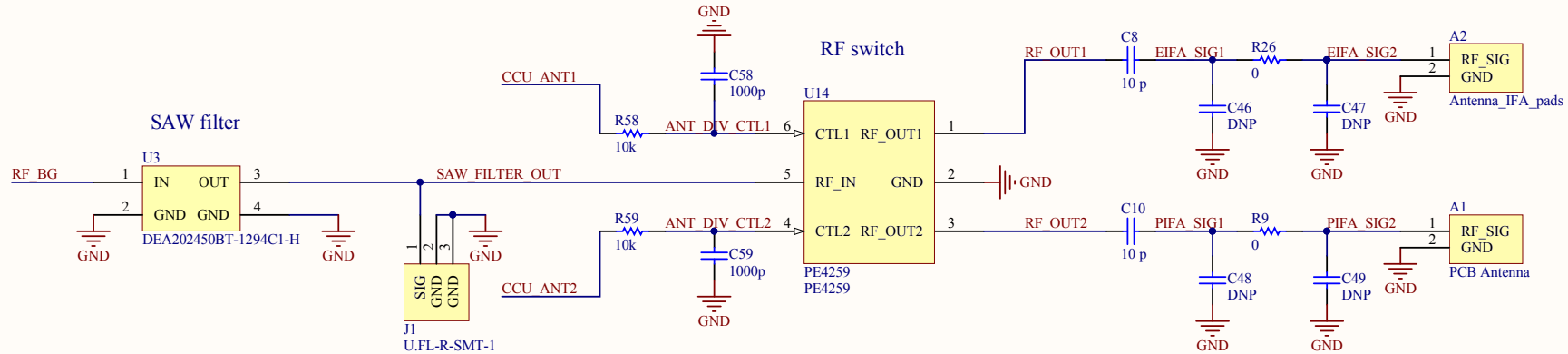


Hello

TITLE Air_quality		REV DVT
DATE 10/24/2014	DRAWN BY D. Fusi	SHEET 4 OF 7



TITLE Flash memory		REV DVT
DATE 10/24/2014	DRAWN BY D. Fusi	SHEET 5 OF 7



J1 is for conducted test

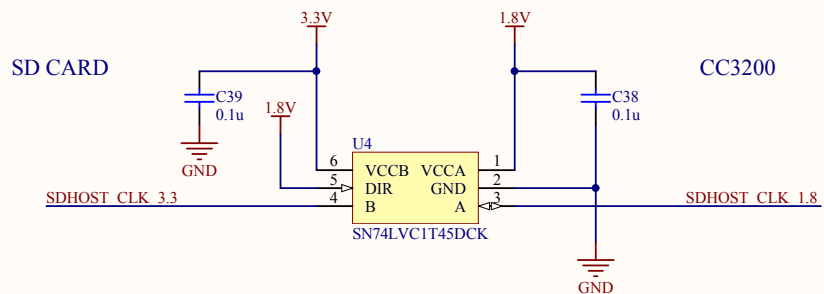
R9 and R26 will be inductors if needed. C46 and C47 DNP for now

RF components: Johanson 0201 L-05B0N6CV6S 250R05L0R2AV4S
 Murata 0201 GJM0335C1ER20WB01
 Murata 0402 GJM1555C1H100GB01D
 Murata 0402 LQP15MN1N0B02
 GJM series is better than GRM for RF

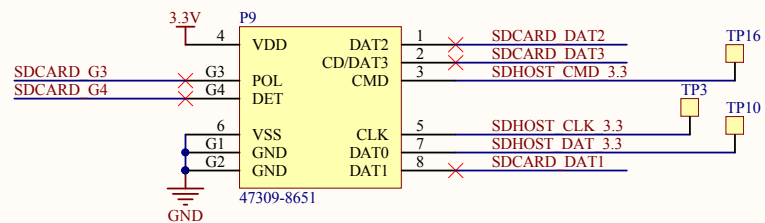
Hello

TITLE M4F_MCU_Antennas		REV DVT
DATE 10/24/2014	DRAWN BY D. Fusi	SHEET 6 OF 7

CLK needs a dedicated level shifter beacuse of speed



CMD and DAT shifter on dedicated level shifter



SD Card connector

Hello		
TITLE	REV	
SD_Card	DVT	
DATE	DRAWN BY	
10/24/2014	D. Fusi	SHEET 7 OF 7