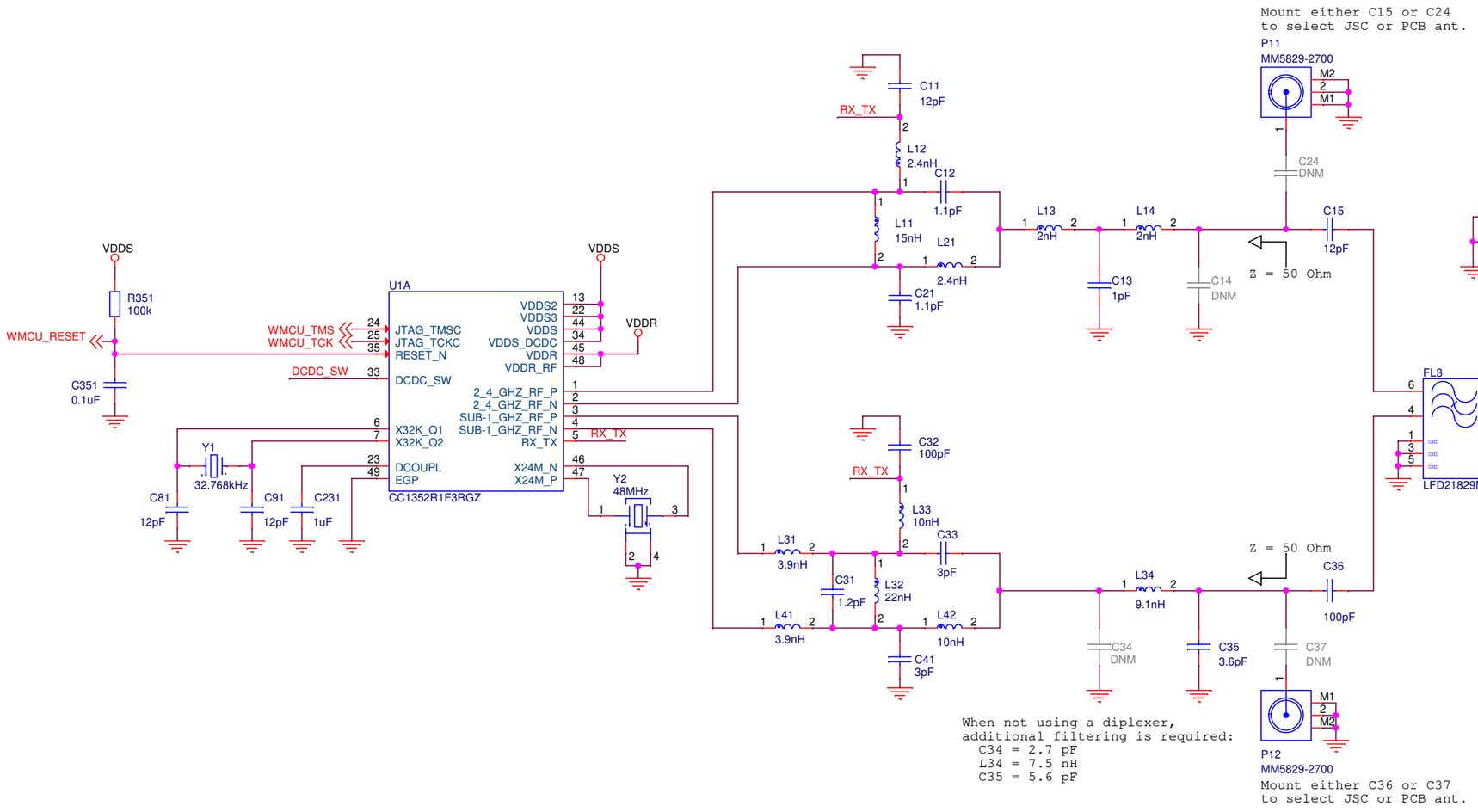
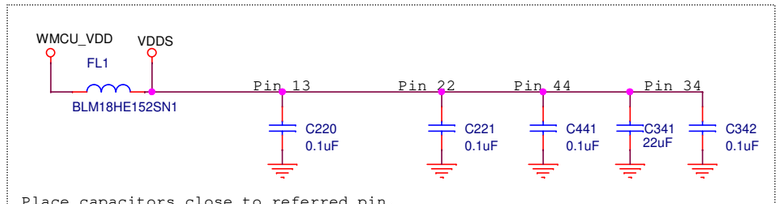
Wireless MCU RF

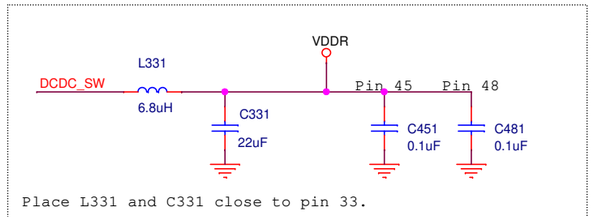
Wireless MCU IO block placed on page 2.



VDDS Decoupling Capacitors



VDDR Decoupling Capacitors



Title: LAUNCHXL-CC1352R1	Texas Instruments
Drawn: SJO	PN: WCS038
Checked: FGK	
Size: A3 Rev: B Sheet: 1 of 7	
Date: Thursday, November 08, 2018	

BoosterPack Headers and Peripherals

5V and 3V header

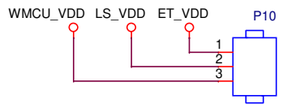
Wireless MCU IO block

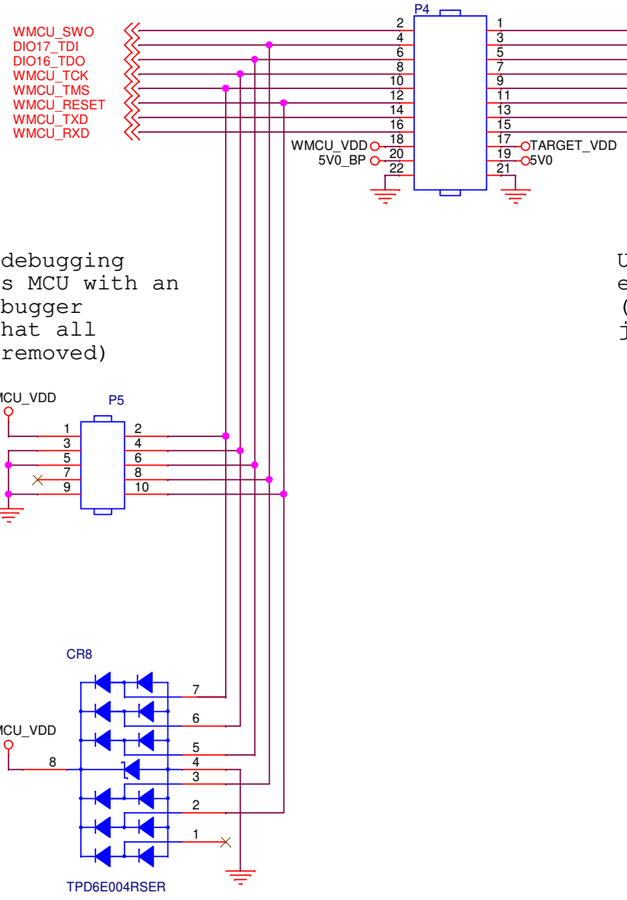
External flash

Title: LAUNCHXL-CC1352R1	Texas Instruments
Drawn: SJO	PN: WCS038
Checked: FGK	
Size: A3	Rev: B
Sheet: 2 of 7	
Date: Thursday, November 08, 2018	

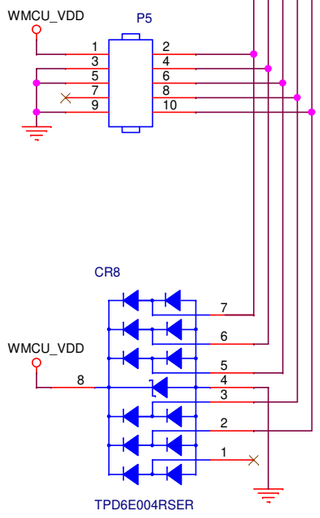
XDS110 Debugger Interface

P10 selects the voltage source for the level shifters
When powering the wireless MCU from the XDS supply, connect jumper between pins 1 and 2.
When powering the wireless MCU from the external supply, connect jumper between pins 2 and 3.

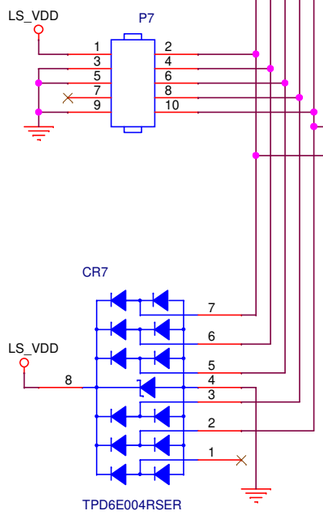


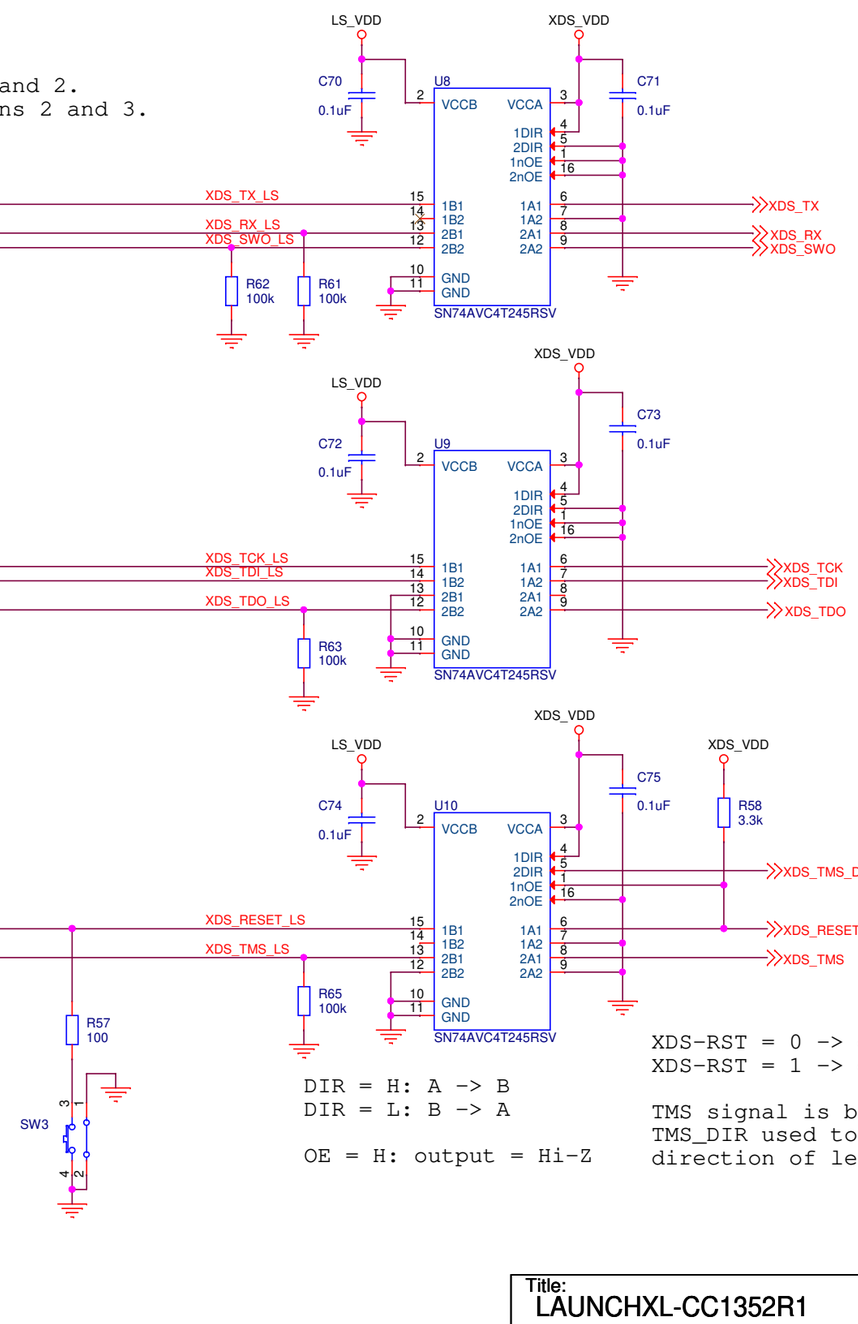


Use P5 for debugging
the wireless MCU with an
external debugger
(requires that all
jumpers be removed)



Use P7 for debugging
external targets
(requires that all
jumpers be removed)





DIR = H: A -> B
DIR = L: B -> A

OE = H: output = Hi-Z

XDS-RST = 0 -> output = 0
XDS-RST = 1 -> output = Hi-Z

TMS signal is bidirectional.
TMS_DIR used to control
direction of level shifter

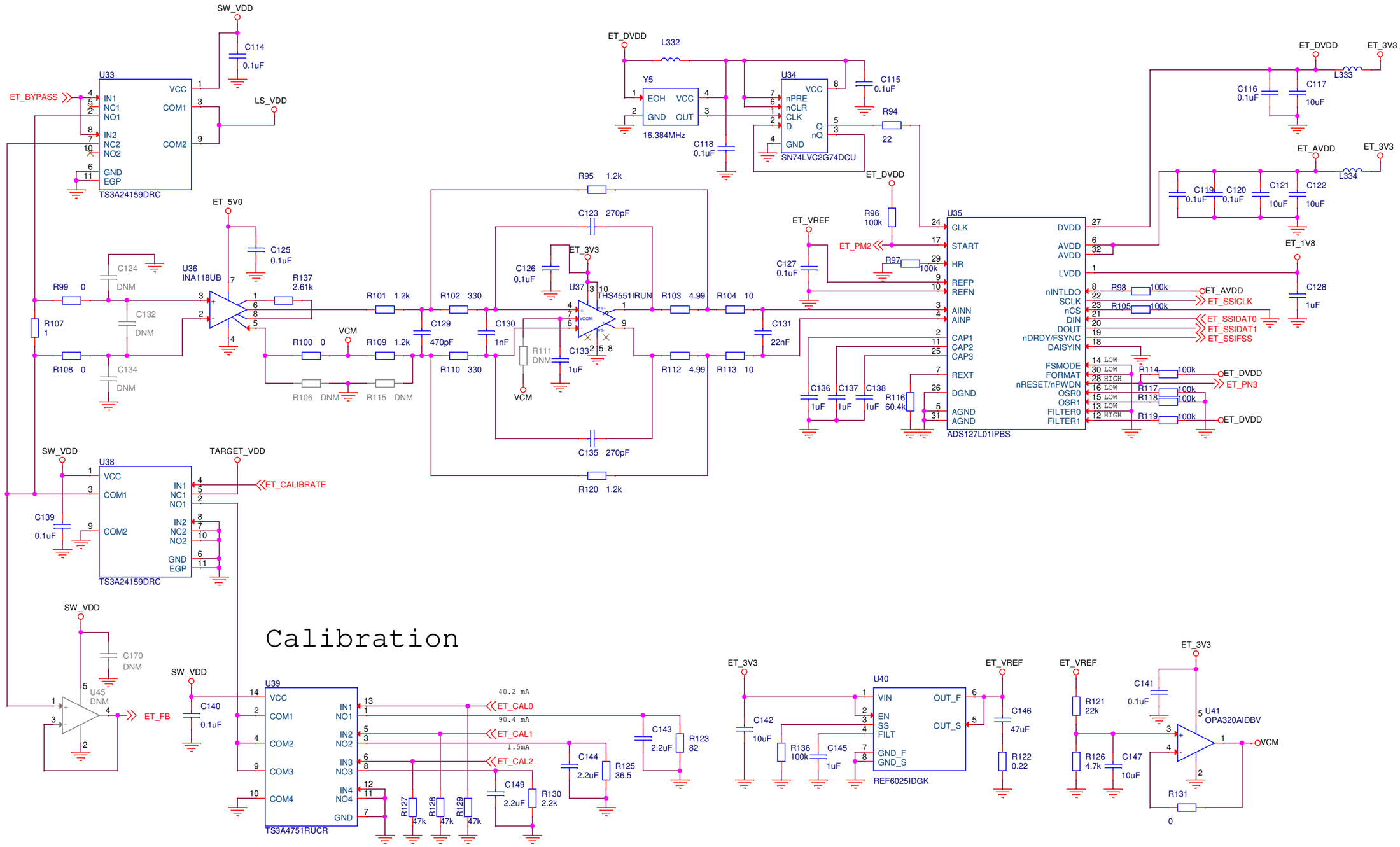
Title: LAUNCHXL-CC1352R1	Texas Instruments
Drawn: SJO	PN: WCS038
Checked: FGK	
Size: A3 Rev: B	Sheet: 3 of 7
Date: Thursday, November 08, 2018	

XDS110 Debugger

XDS_VDD = 3.3 V

Title:	LAUNCHXL-CC1352R1
Drawn:	SJO
PN:	WCS038
Checked:	FGK
Size:	A3
Rev:	B
Sheet:	4 of 7
Date:	Thursday, November 08, 2018

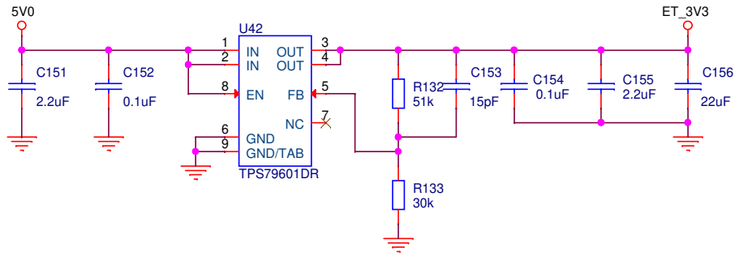
EnergyTrace

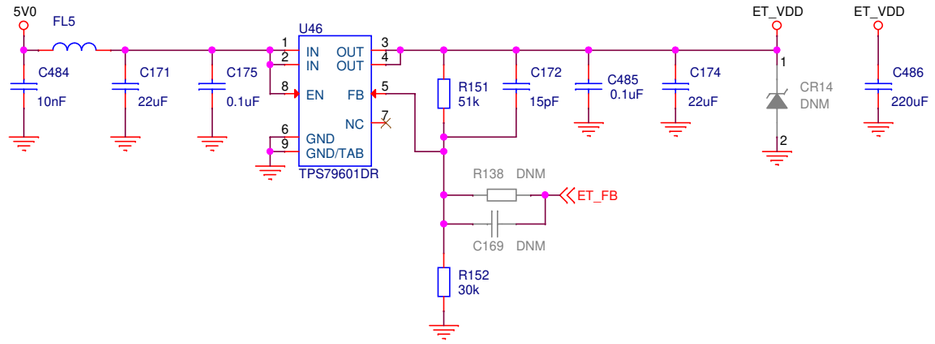


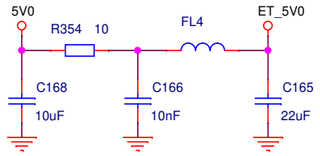
Calibration

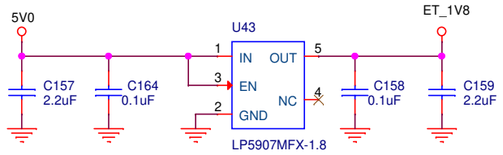
Title:	LAUNCHXL-CC1352R1
Drawn:	SJO
PN:	WCS038
Checked:	FGK
Size:	A3
Rev:	B
Sheet:	5 of 7
Date:	Thursday, November 08, 2018

EnergyTrace Power Supply

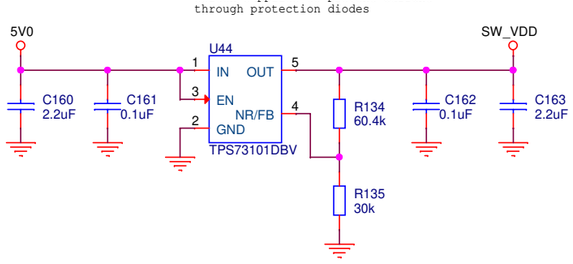








U24 VCC set at 3.6V, higher than switch supplies to prevent current through protection diodes



Title: LAUNCHXL-CC1352R1	Texas Instruments
Drawn: SJO	PN: WCS038
Checked: FGK	
Size: A3 Rev: B Sheet: 6 of 7	
Date: Thursday, November 08, 2018	

Mechanical

Jumpers

P6: M1 M2

P4: M3 M4 M5 M6 M7 M8 M9 M10 M11 M12 M13

P10: M14

PCB

PCB1

WCS038

Mounting Holes

MH1 HOLE_3.2mm_PTH

MH2 HOLE_3.2mm_PTH

MH3 HOLE_3.2mm_PTH

MH4 HOLE_3.2mm_PTH

MH5 HOLE_1.1mm_PTH

M15 DCB-10

M16 DCB-10

M17 DCB-10

M18 DCB-10

Fiducials

FIDU1 FIDU2 FIDU3

FIDU4 FIDU5 FIDU6

Labels

LBL2

TI_LOGO

LBL3

CE_label

LBL4

FCC dsc

LABEL_FOR_EVALUATION_ONLY

LBL5

TRASH_7mm

LBL6

ESD_LABEL_5x5mm

Stickers

LBL1

HW Rev:
FW:
YYMM

LP_STICKER

Place sticker on bottom side.

Title: LAUNCHXL-CC1352R1	Texas Instruments
Drawn: SJO	PN: WCS038
Checked: FGK	
Size: A3 Rev: B	Sheet: 7 of 7
Date: Thursday, November 08, 2018	