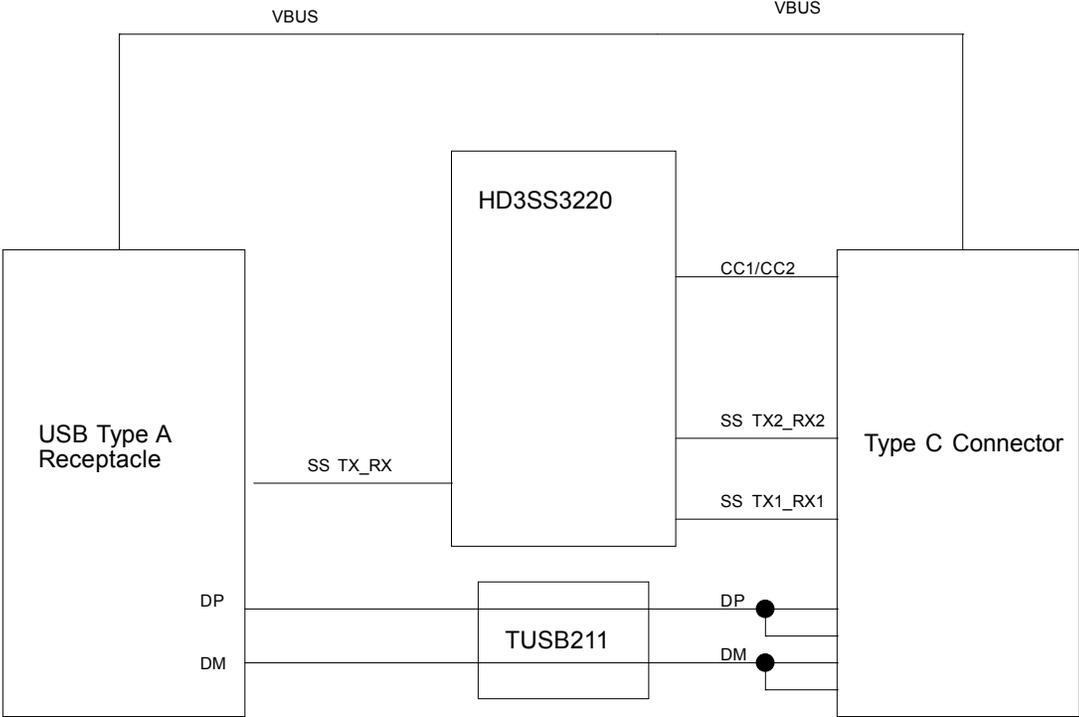
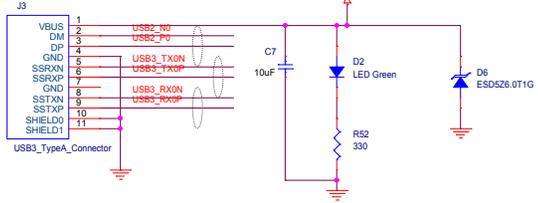


TIDA-00891 USB TypeC™ Receptacle to USB Type-A Receptacle SS MUX with UFP Controller Reference Design
REVA



USB Legacy Device Connection

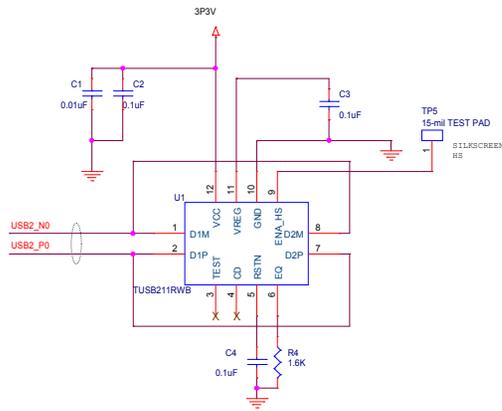
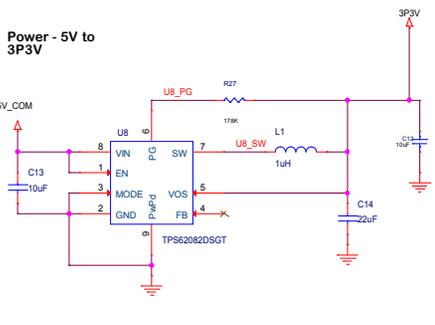


DESIGN NOTES

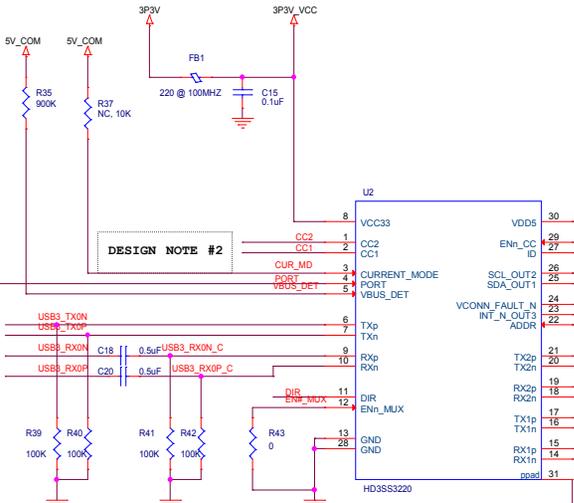
1. Install only if active discharge circuit exists.
2. CUR_MD valid only in DFP mode.
3. Bulk cap for VCONN between 10uF to 220uF
4. C18, C20, R39, R40, R41 and R42 are placed for interoperability purposes with USB Vcm above 2V.
5. C17, C19, C21 and C22 are placed for interoperability purposes with USB Vcm above 2V
6. ALL DIFF PAIRS ARE ROUTED 85 TO 90 OHMS DIFFERENTIAL AND 50 OHMS COMMON MODE. ALL OTHER TRACES ARE 50 OHM.

NOTE: ALL DIFF PAIRS ARE ROUTED 85 TO 90 OHMS DIFFERENTIAL AND 50 OHMS COMMON MODE. ALL OTHER TRACES ARE 50 OHM.

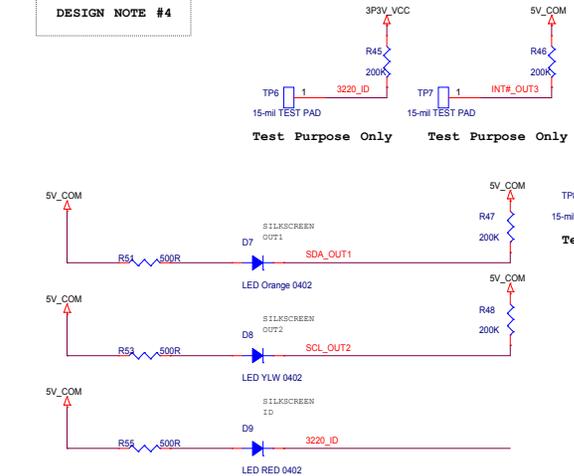
Power - 5V to 3P3V



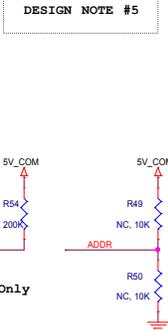
DESIGN NOTE #2



DESIGN NOTE #4

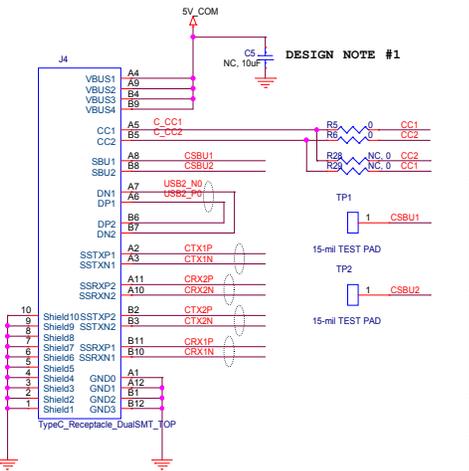


DESIGN NOTE #5

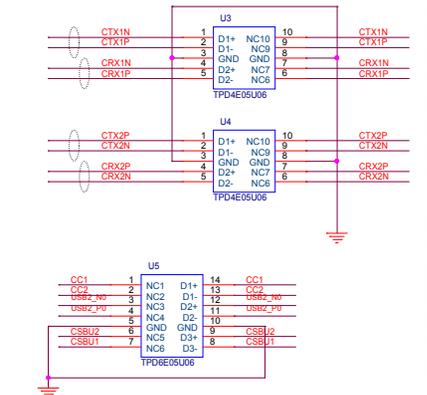


TypeC Connector Pin Mapping

GND	A1	B12	GND
SSTXP1	A2	B11	SSRX1
SSTXP2	A3	B10	SSRX2
SSTXN1	A4	B9	SSRXN1
SSTXN2	A5	B8	SSRXN2
VBUS	A6	B7	VBUS
CC1	A7	B6	CC2
DP1	A8	B5	DN2
DN1	A9	B4	DP2
SBU1	A10	B3	CC2
SBU2	A11	B2	VBUS
SSRXN2	A12	B1	SSTXN2
SSRXN1	A11	B2	SSTXN1
SSRX2	A10	B3	SSTXP2
SSRX1	A9	B4	SSTXP1
GND	A12	B1	GND



ESD Components



DESIGN NOTE #6

TEXAS INSTRUMENTS

TIDA-00891 USB TypeC™ Plug to USB Type-A Receptacle SS MUX with UFP Controller Reference Design

SIZE C	DWG NO:
SCALE: NONE	Tuesday, December 16, 2016 Sheet 2 of 3

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