

COMET10 EVAL Board

Green = Serigraphy



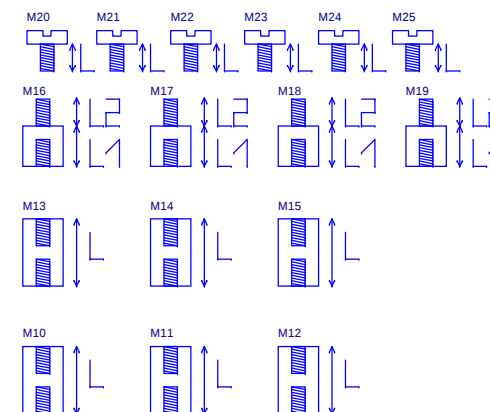
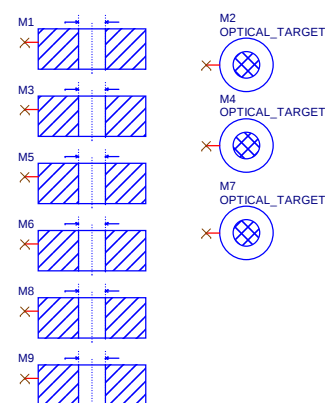
DEMO BOARD ONLY
FOR EVALUATION
PURPOSE

ST logo
EVALSTCOMET-1
PCBAA-REV3
RoHS EU
RoHS Chinese

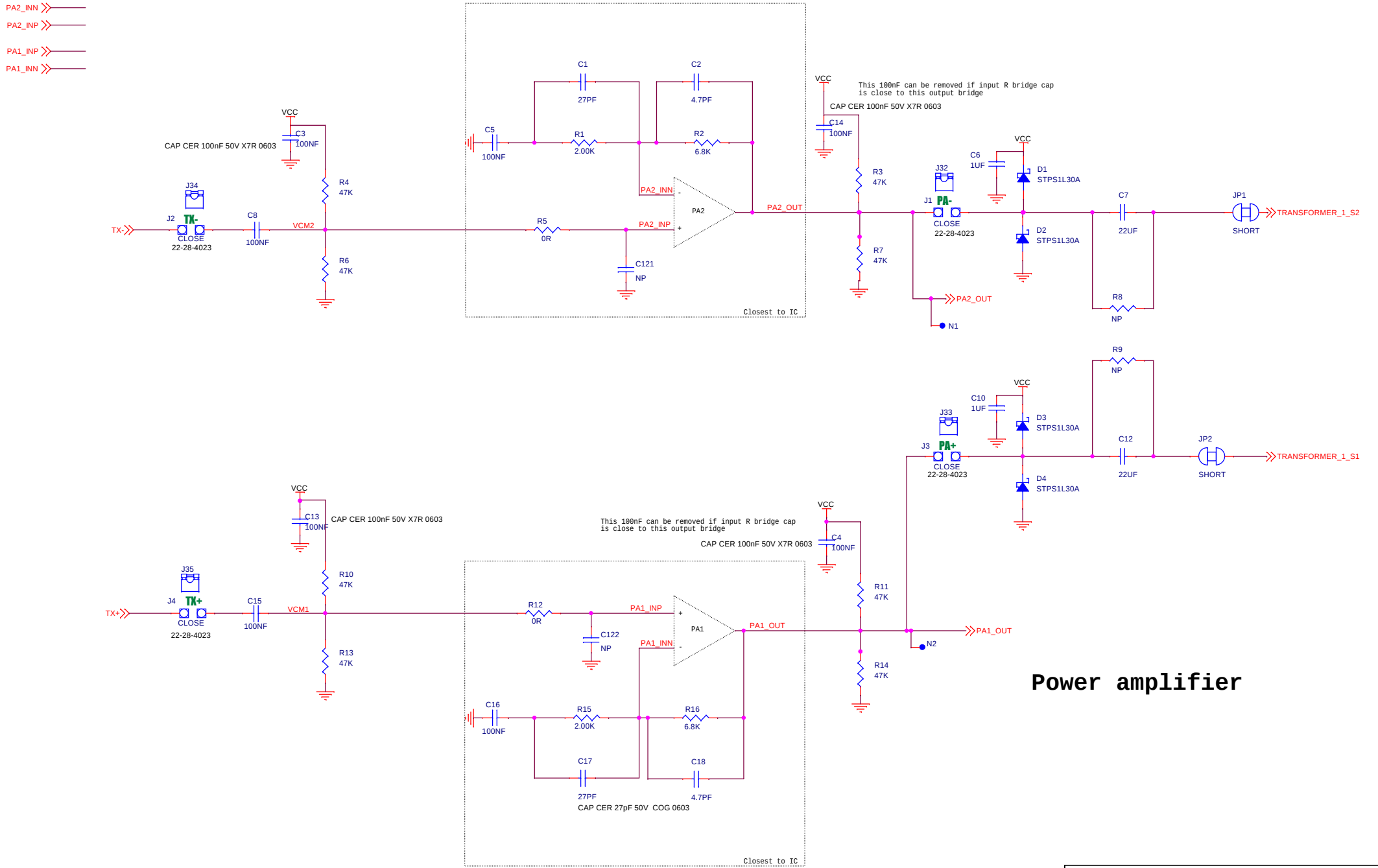
- 1 - Index
- 2 - COMET Power Amplifier
- 3 - COMET PLC coupling
- 4 - COMET Metrology
- 5 - Line Breaker
- 6 - Power Supply interface
- 7 - COMET Power Supply
- 8 - COMET SYSTEM
- 9 - COMET GPIOs
- 10 - MODULE Connector
- 11 - Serial Interfaces (UART,SPI FLASH, EEPROM) 1Leds
- 12 - J-LINK OB JTAG

Revision History

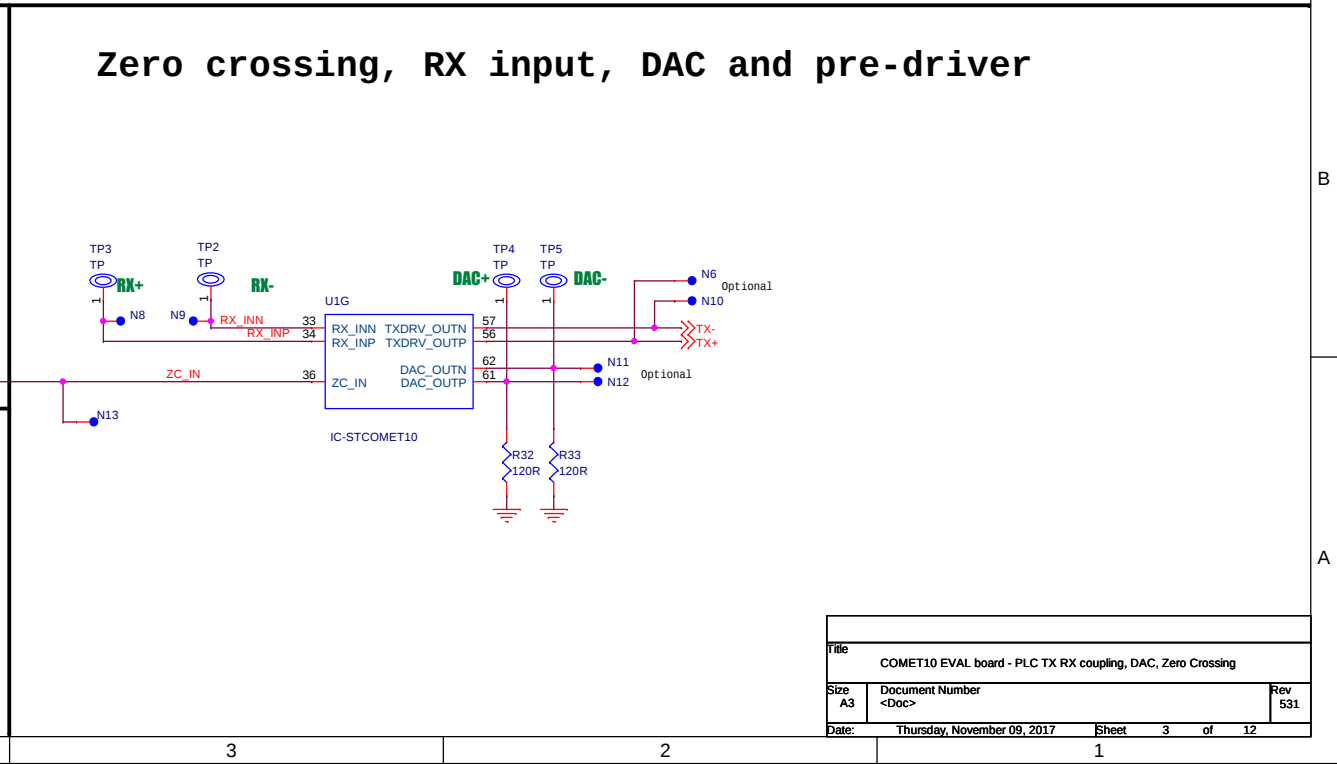
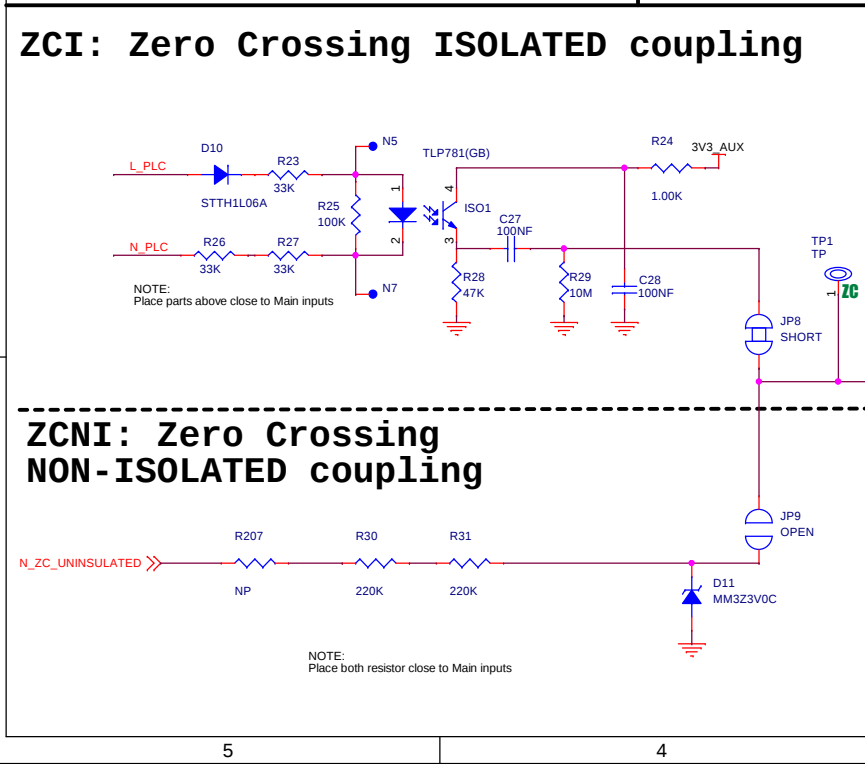
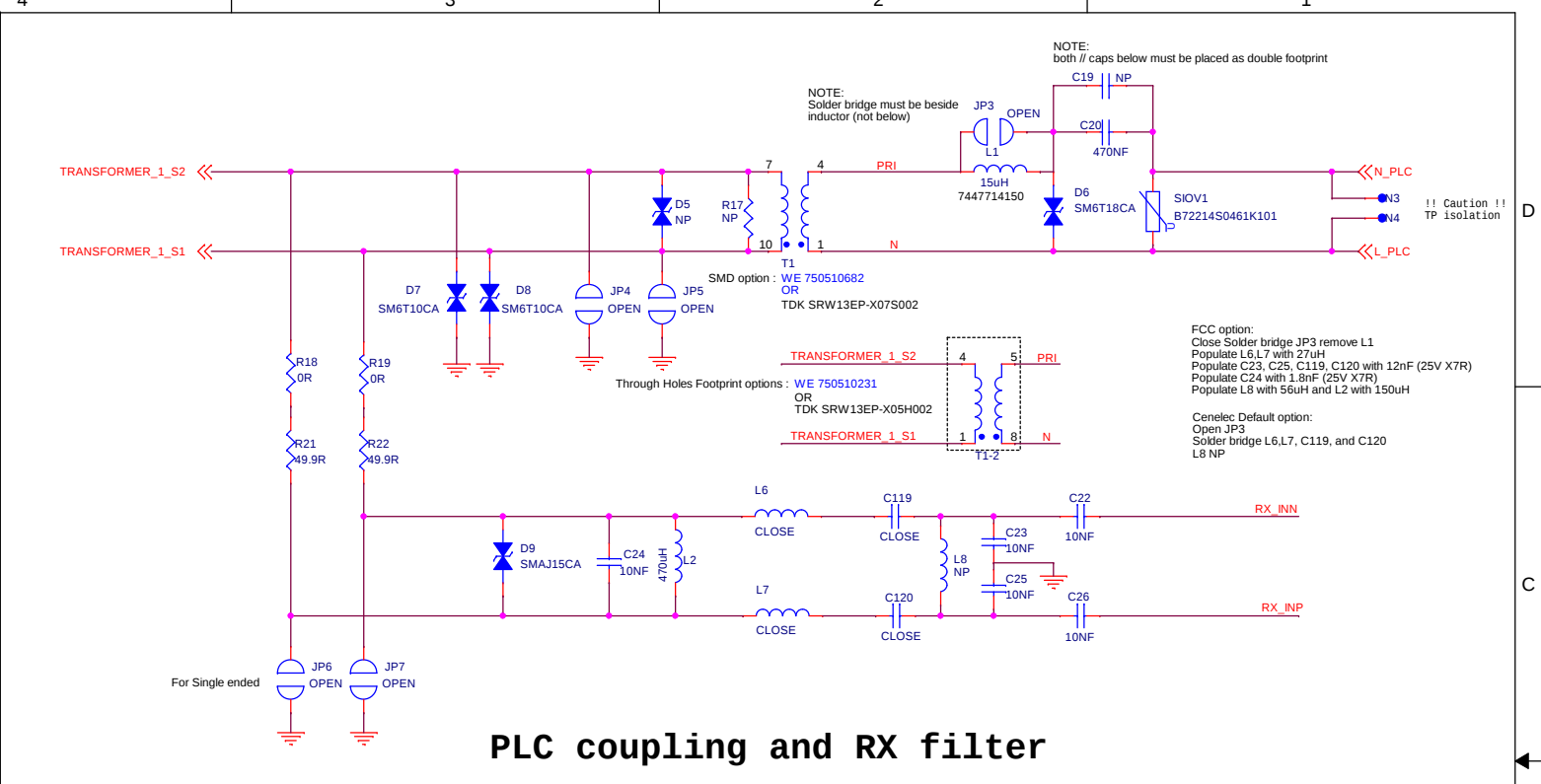
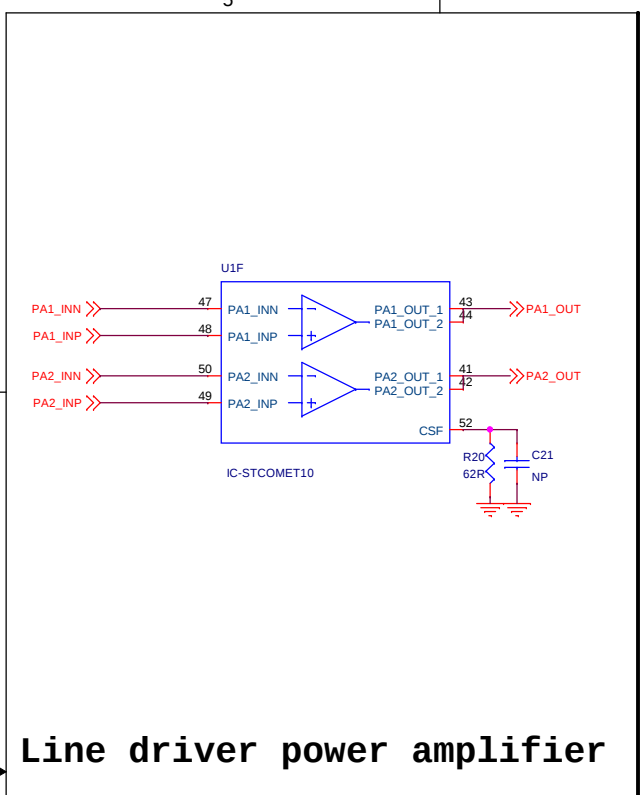
AA_COMET_EVB_MOTHER_BOARD_Rev531

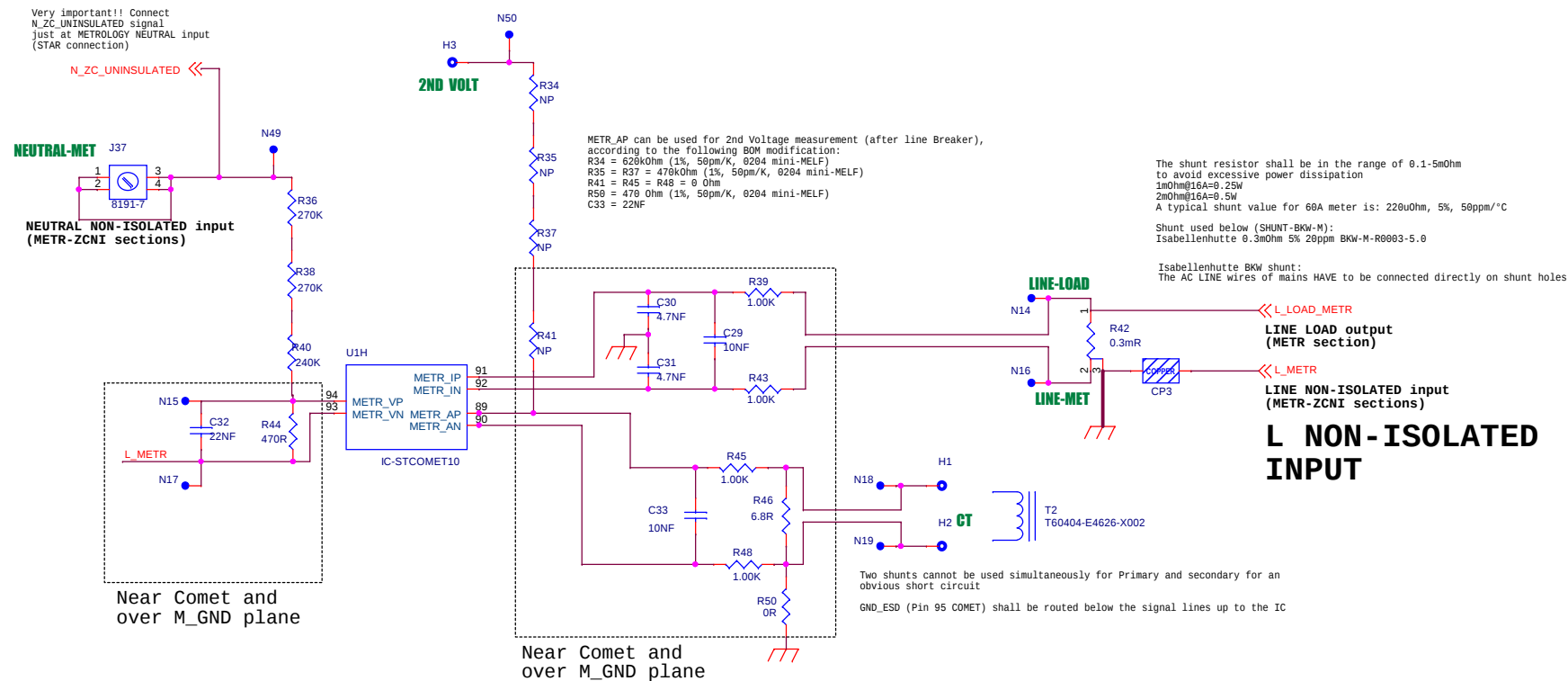


Title		
COMET10 EVAL board - Index		
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Title		
COMET10 EVAL board - Differential power amplifier		
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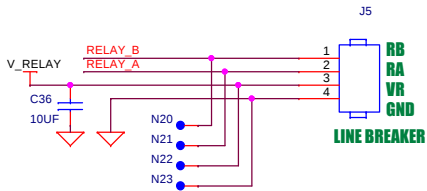
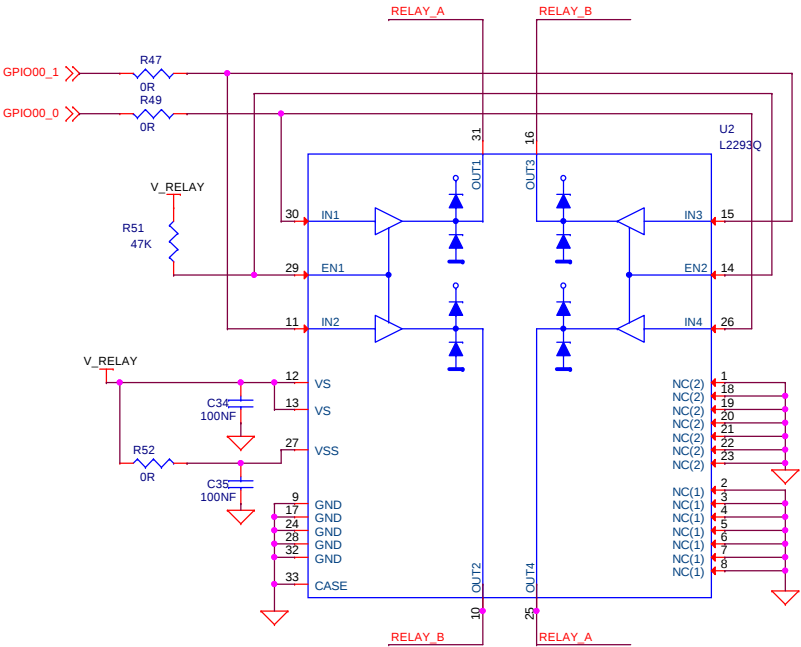


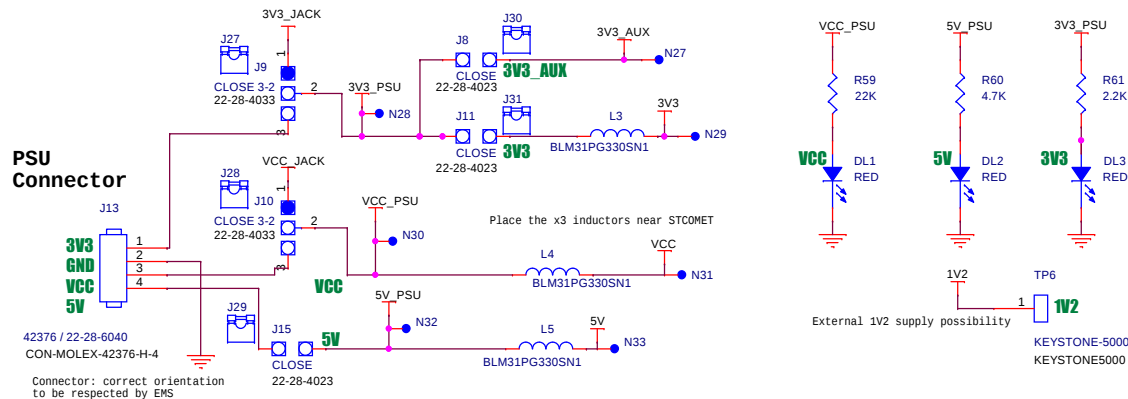
Metrology voltage scaling and current sense

Use the LCD Module:
For Metrology Leds,
Tamper buttons,
Display buttons,
LCD,
3 Phases Metrology connector

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COMET10 EVAL board - Metrology section		
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Line Breaker Driver





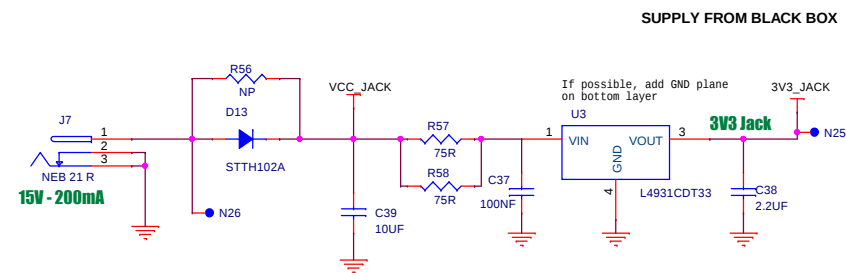
**External PSU selection:
(Default Setting)**

J9 CLOSED 3-2
J10 CLOSED 3-2
J15 CLOSED
J16 OPEN (page 07)

External Black Box selection

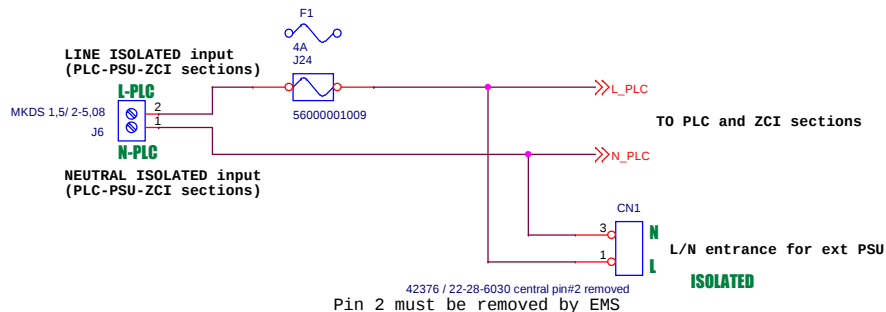
J9 CLOSED 2-1
J10 CLOSED 2-1
J15 OPEN
J16 CLOSED (page 07)

Power supply selection (PSU/Black-box)

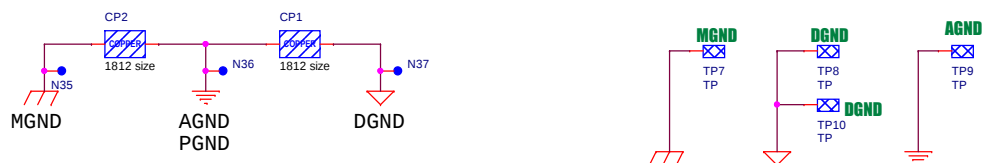


Black-box Internal voltage regulation

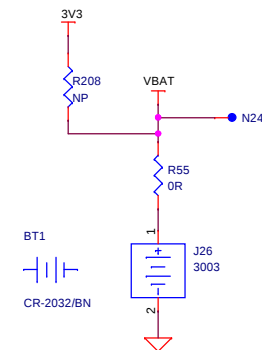
L/N ISOLATED INPUTS



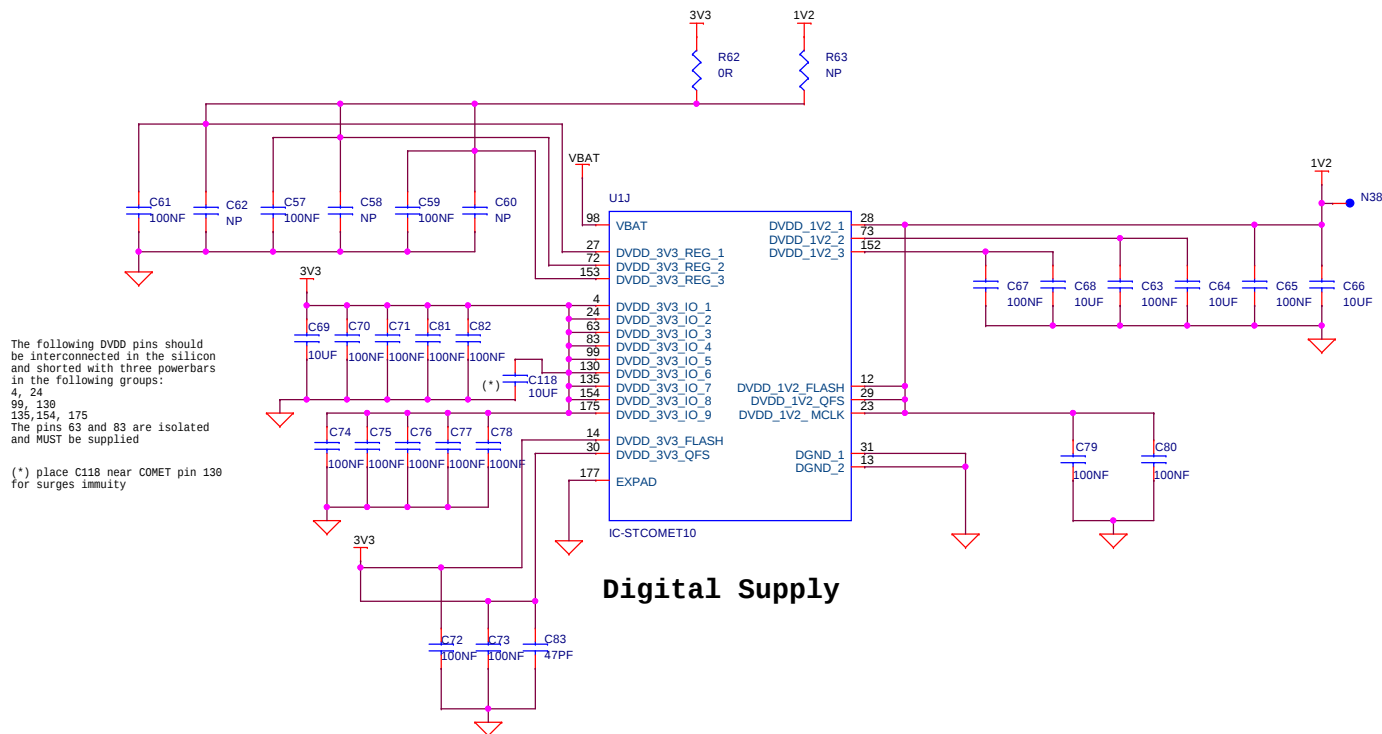
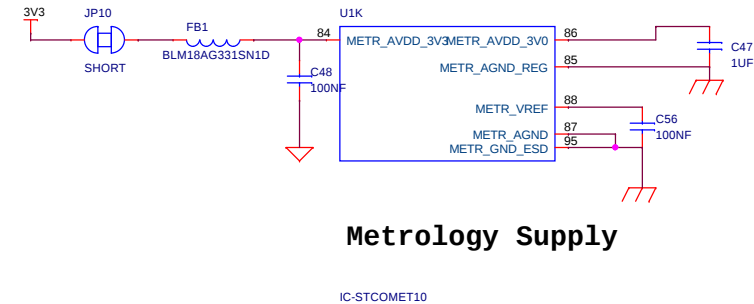
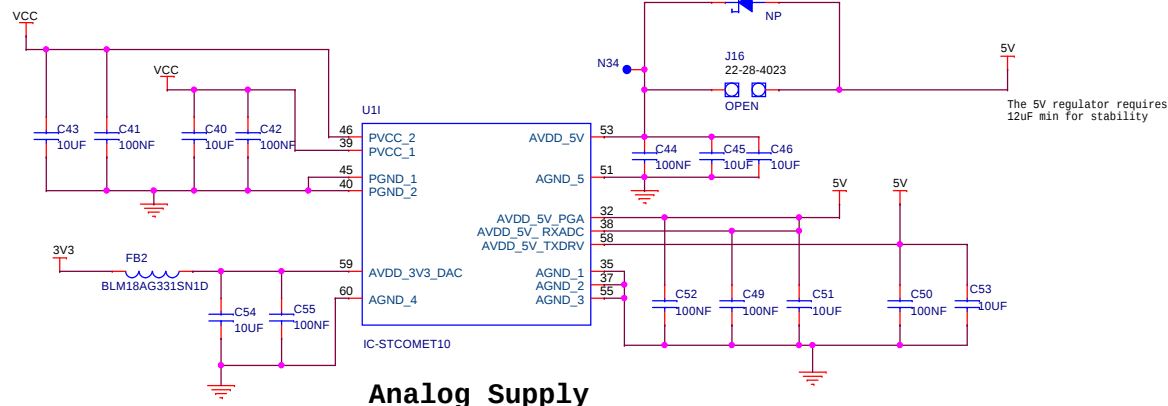
Ground connections



RTC Battery

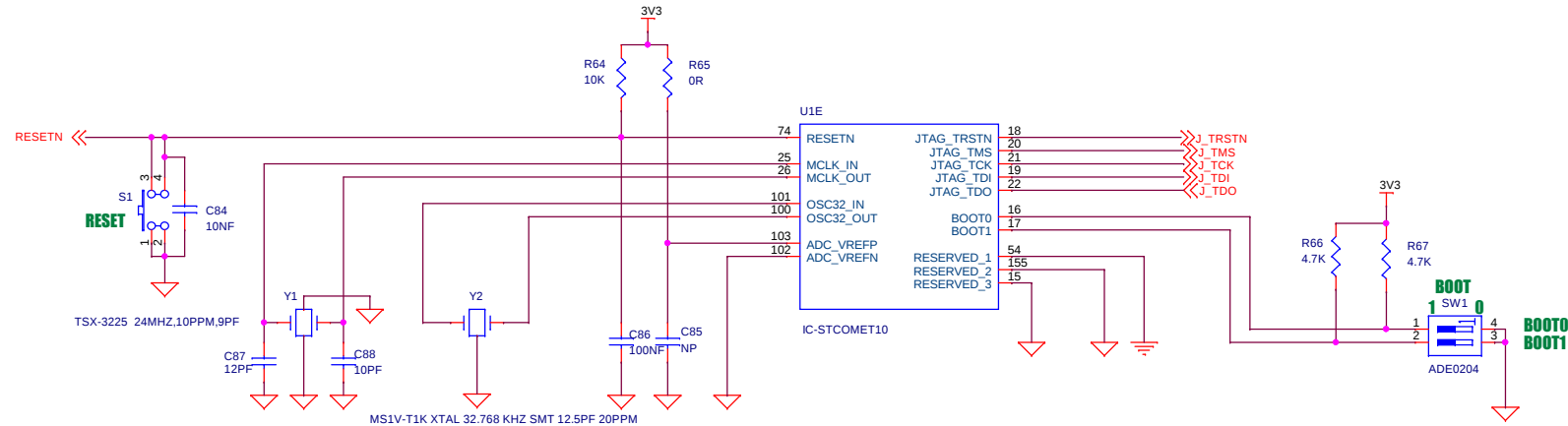


Title		
COMET10 EVAL board - Power Supply interface section		
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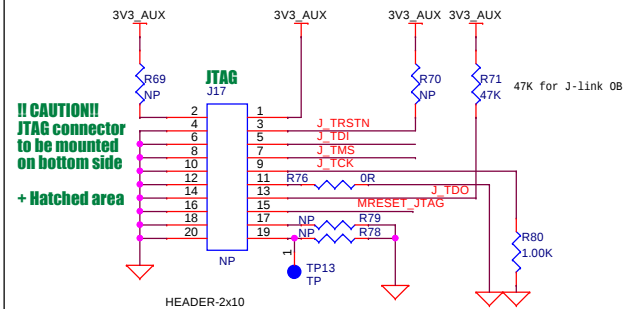


COMET power supply section

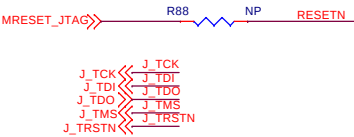
Title		
COMET10 debug board - COMET power supply section		
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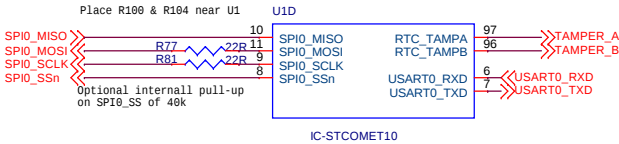
COMET reset, clock, JTAG, BOOT modes, ADC reference



JTAG CONNECTOR



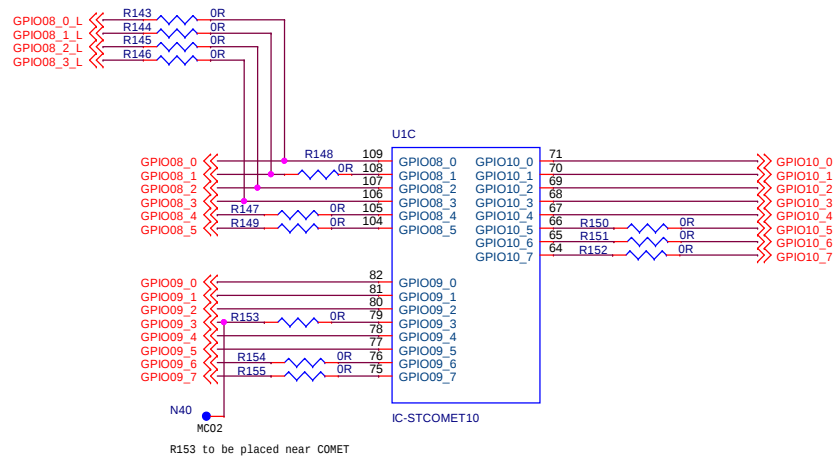
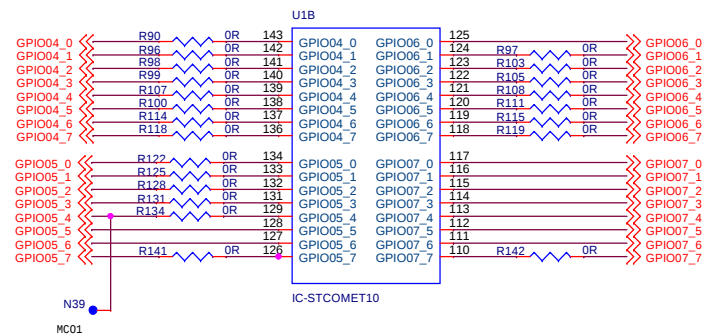
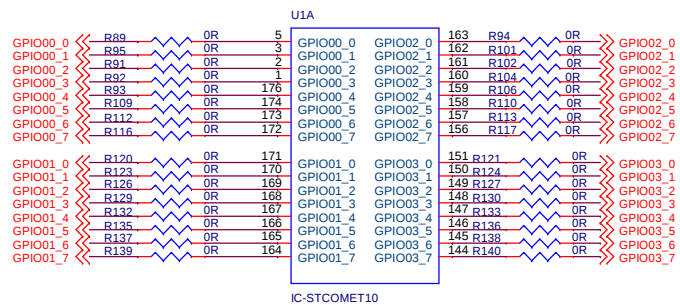
JTAG & ETM connectors



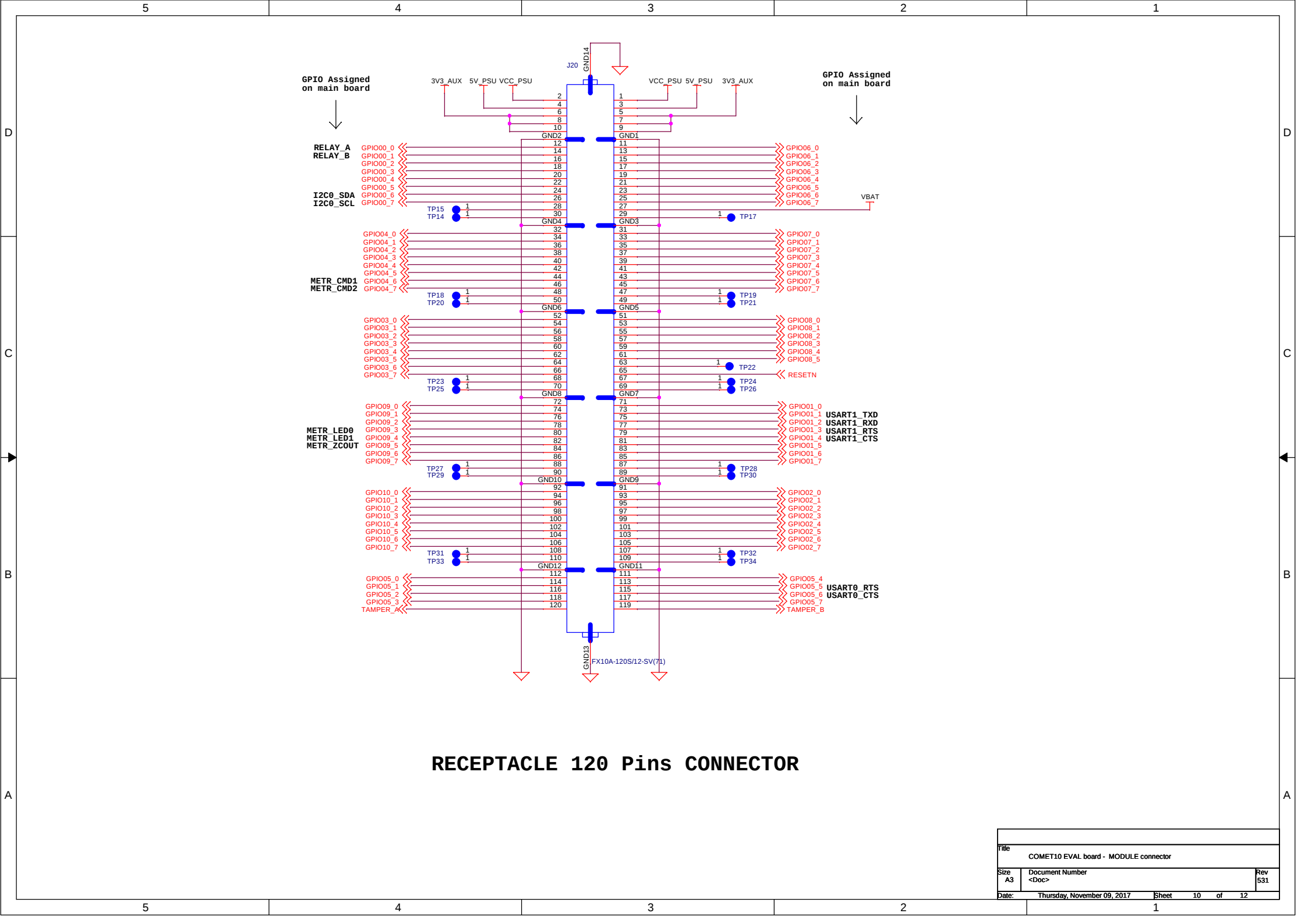
COMET SPI0, UART0, Tamper dect.

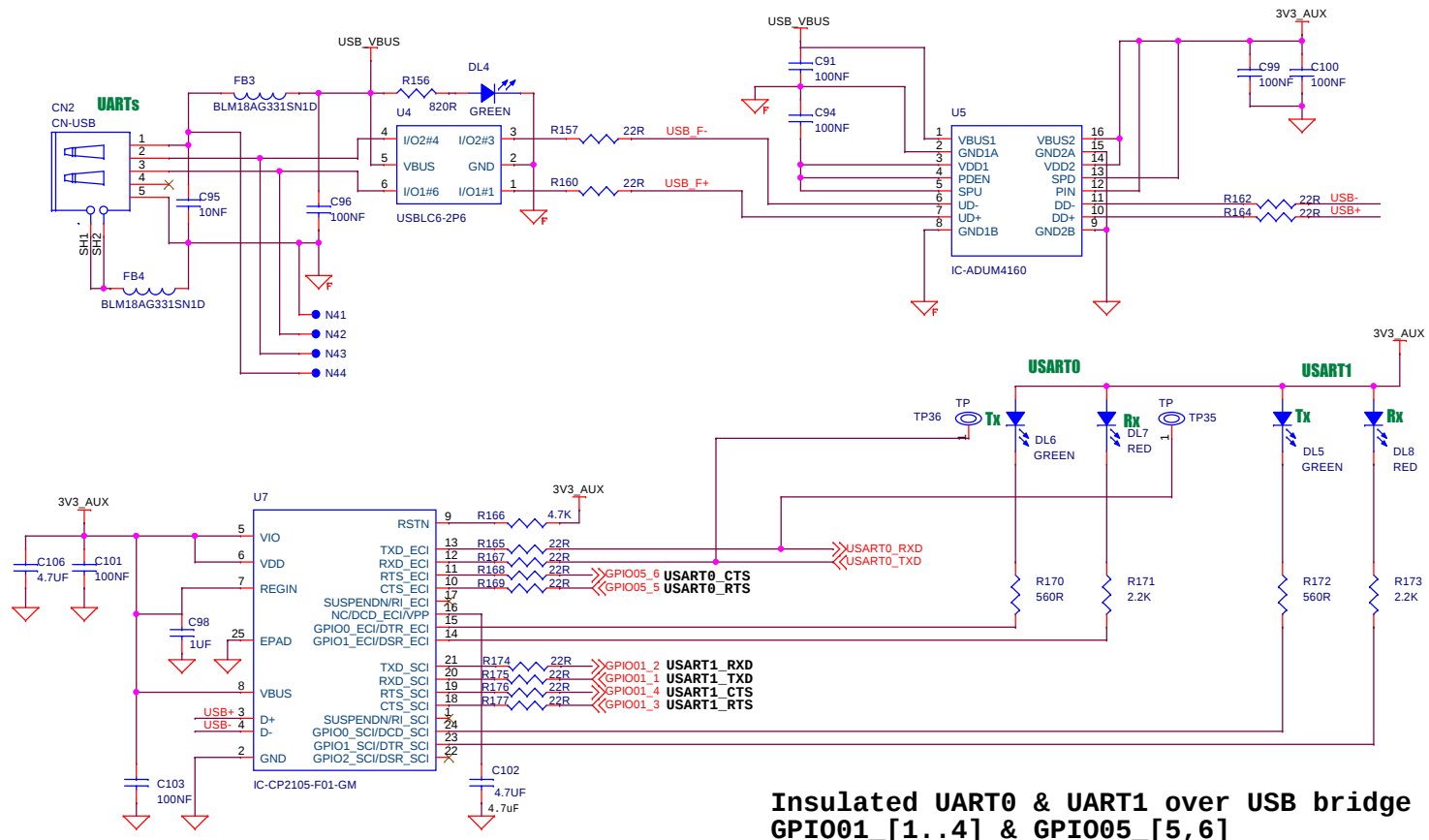
Title		
COMET10 EVAL board - Clock, JTAG, SPI0, Tamper		
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Optional resistors to eventually damp
the FSMC lines

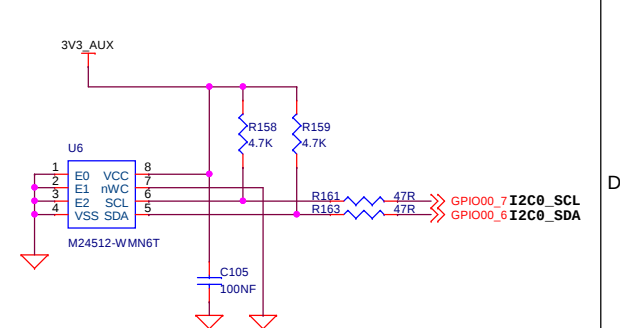


COMET GPIOs

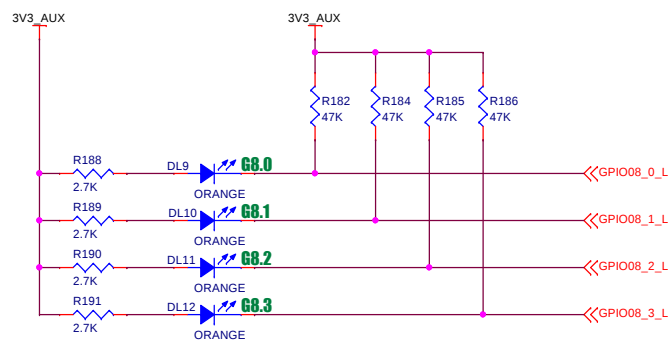




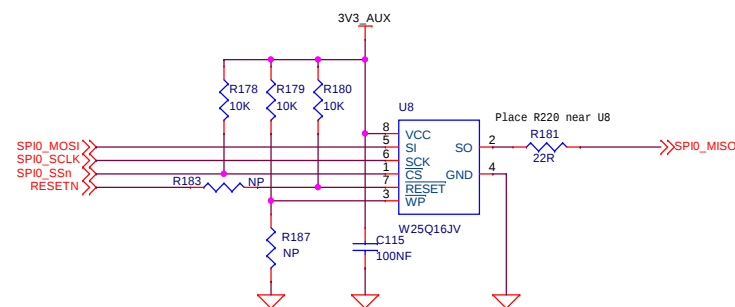
Insulated UART0 & UART1 over USB bridge GPIO01_[1..4] & GPIO05_[5,6]



512kbit METROLOGY EEPROM I2C0

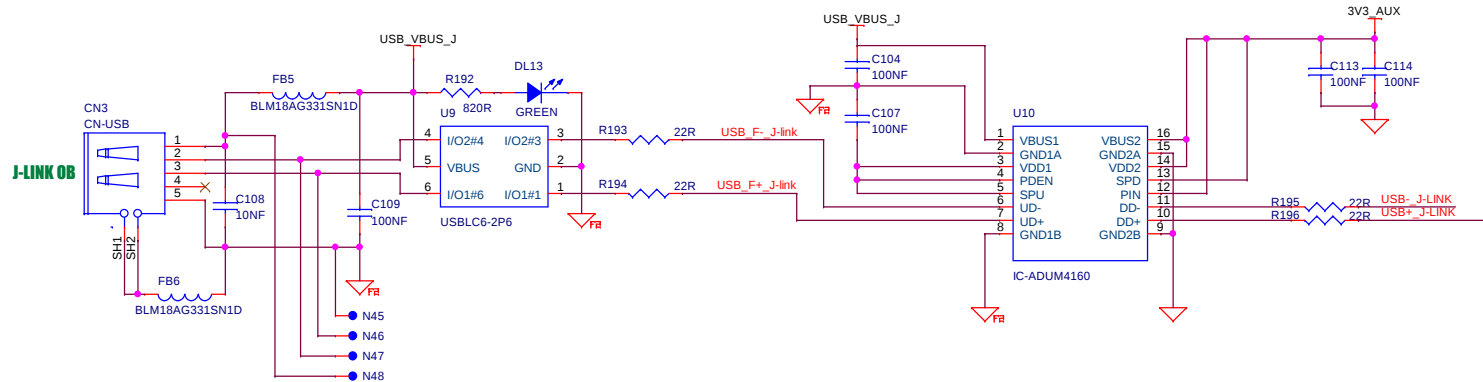


LED GPIO[08_0..08_3]

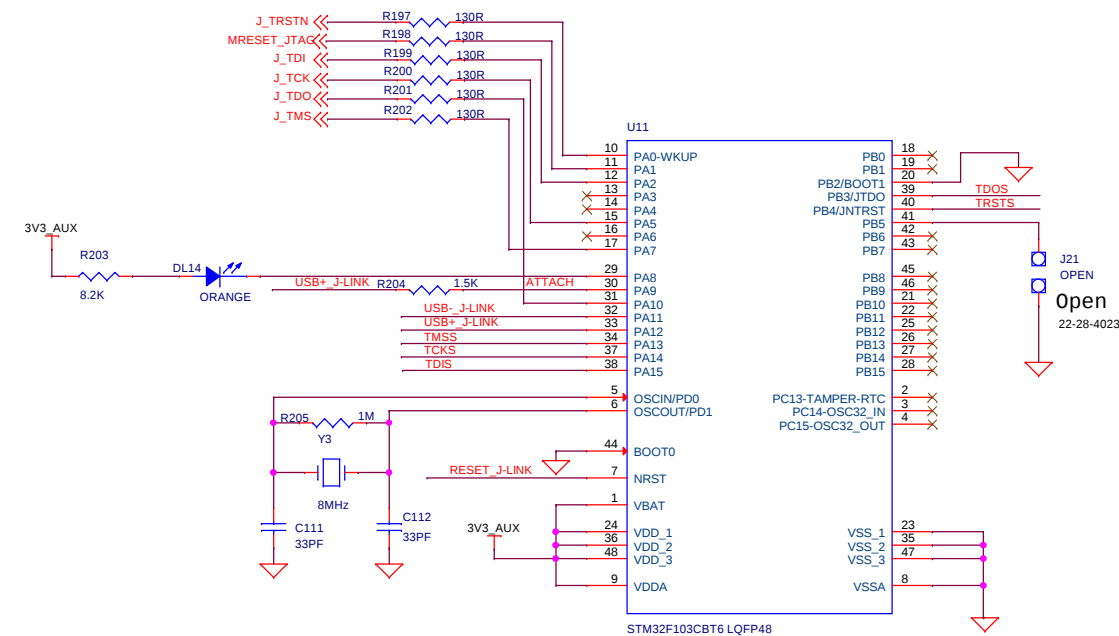


16Mbit BOOT FLASH
SPI0

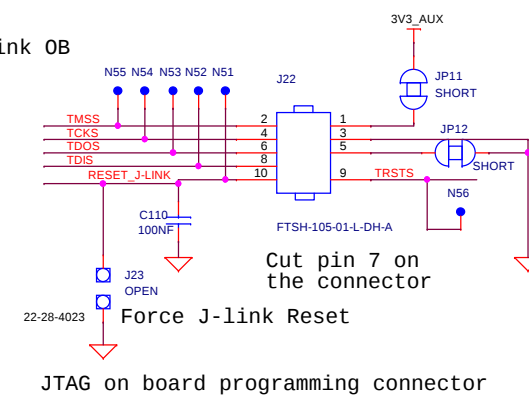
Title			
COMET10 EVAL board - USB UART bridge, DIP Switch&LEDs,EEPROM, SPI FLASH			
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J-Link Technology
www.segger.com



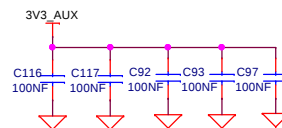
Open to enable J-Link OB
22-28-4023



Cut pin 7 on the connector

Force J-link Reset

JTAG on board programming connector



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COMET10 EVAL Board - J-LINK OB JTAG		
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