


LAN9311 Reference Design

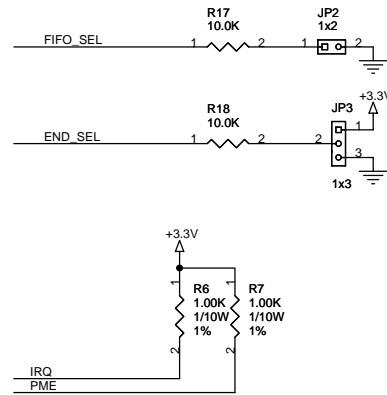
Schematic Revision 0.3

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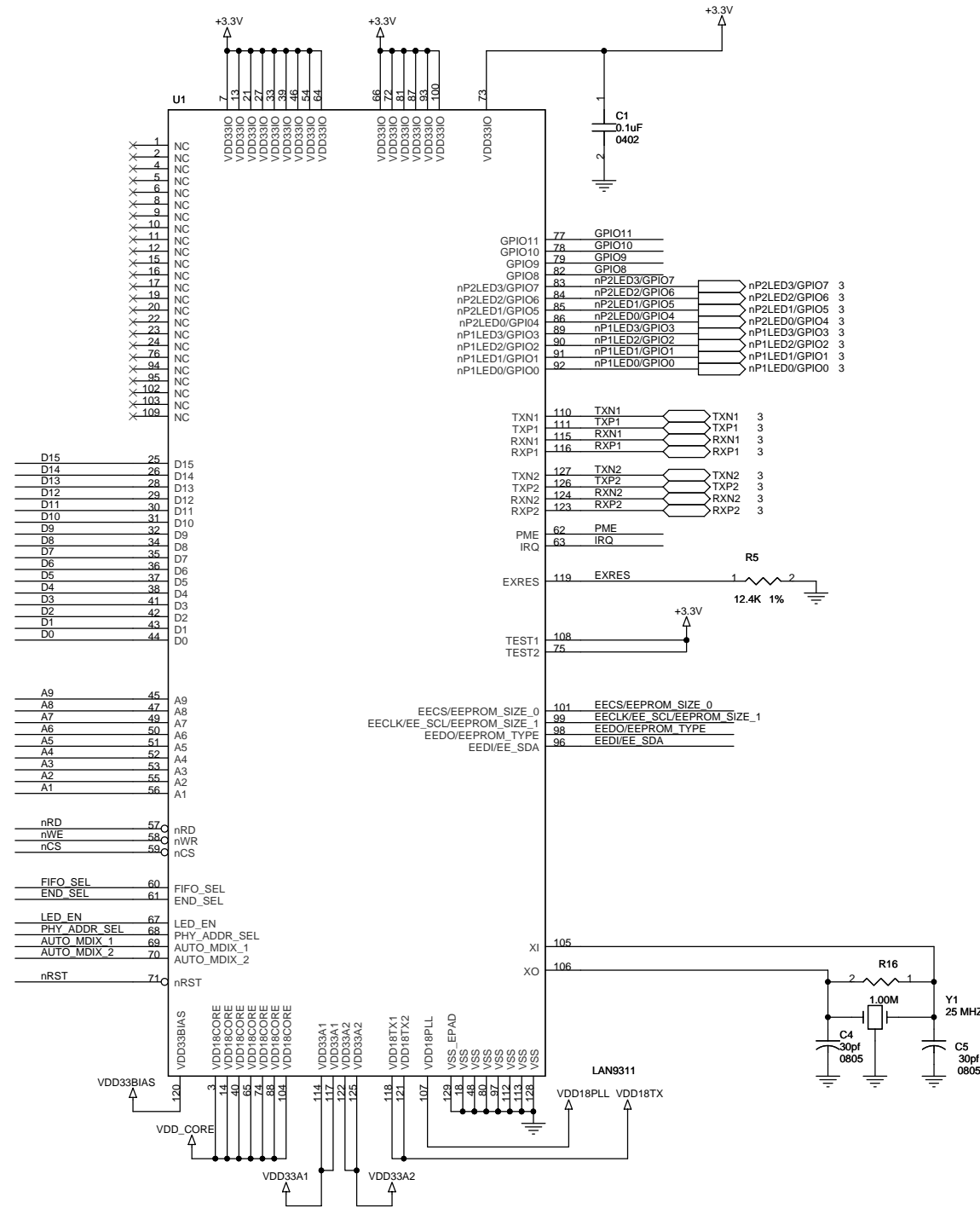
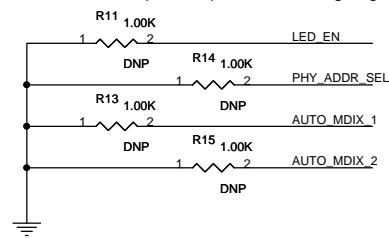
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Title Title Page			
Size C	Engineer R. Walsh	Assembly No. N/A	Rev 0.3
Date: Thursday, January 03, 2008		Sheet 1 of 3	

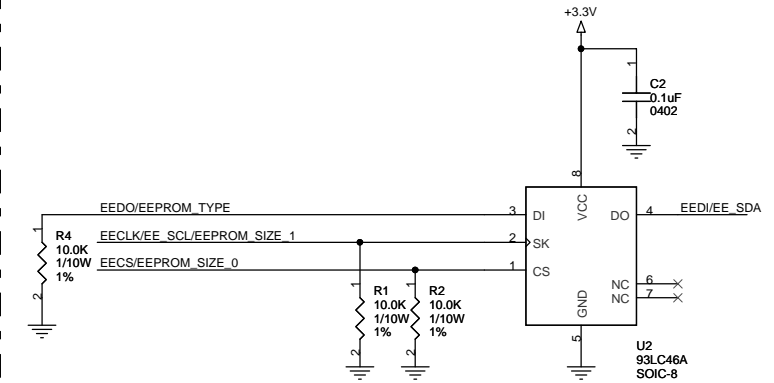
NOTE:
 FIFO_SEL and END_SEL can be driven dynamically and are not pulled internally to either state.
 FIFO_SEL and END_SEL have the same timing as the Address Bus and can be driven by upper address bits not used by the LAN9311. Refer to datasheet.



NOTE:
 LED_EN, PHY_ADDR_SEL, AUTO_MDIX_1&2 configuration straps are pulled up internally and are latched on power-up or on the rising edge of nRST..



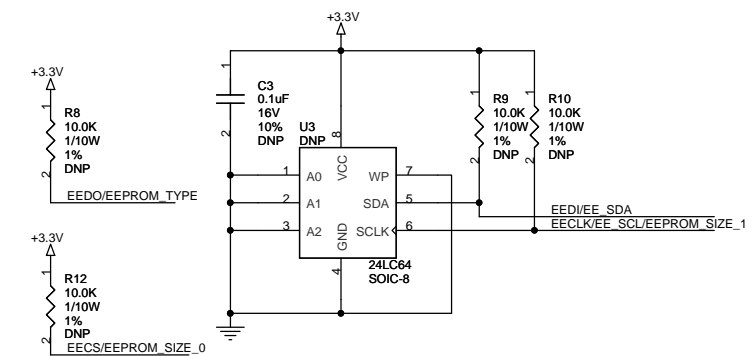
Optional Microwire/I2C Serial EEPROM



NOTE:
 R4 configures LAN9311 for uWire EEPROM type.
 R1 and R2 set EEPROM size.

NOTE:
 Use of external EEPROM's is optional. Populate one or the other, but not both.

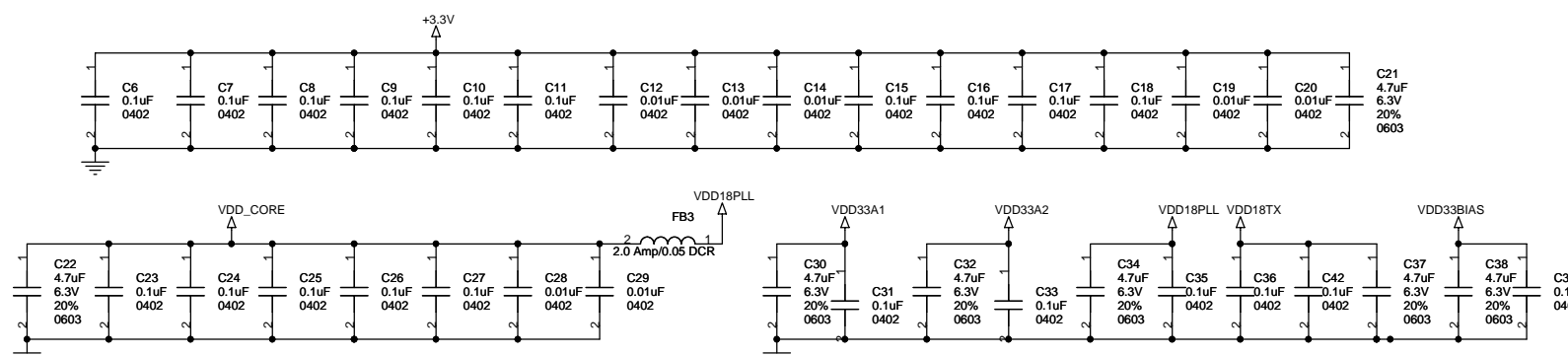
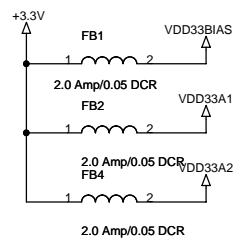
Optional I2C Serial EEPROM



NOTE:
 R8 configures LAN9311 for I2C EEPROM type.
 R12 sets EEPROM size.

LAN9311 Filtering and Decoupling Capacitors

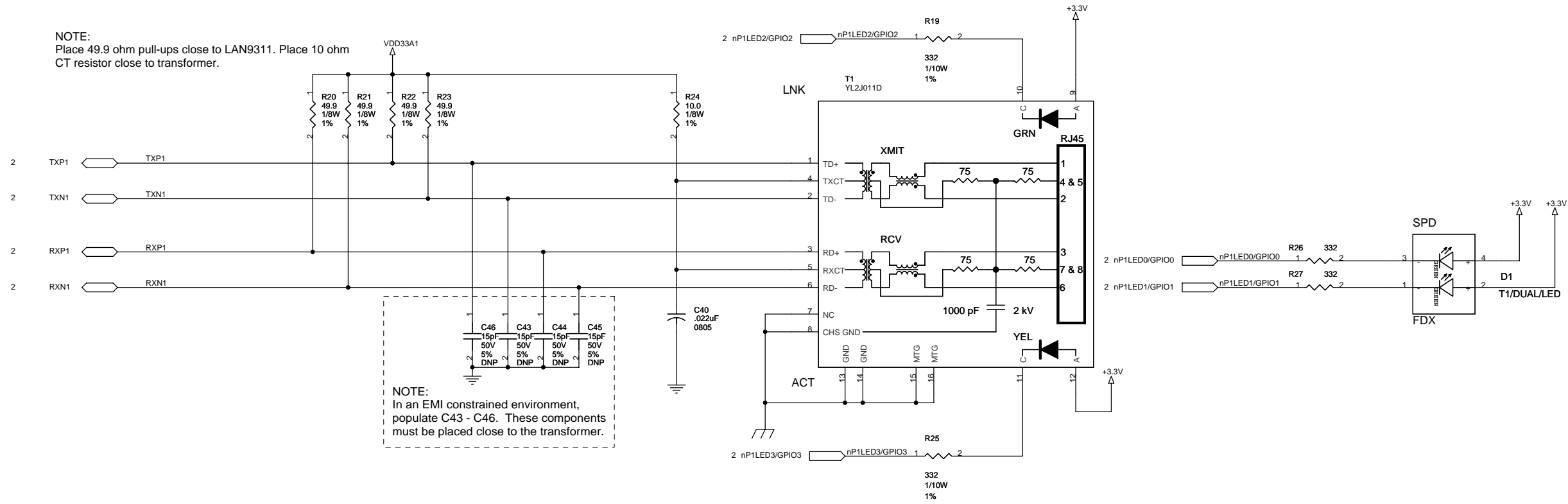
NOTE:
 Place bulk capacitors as close as possible to pins of LAN9311 as follows:
 C38 U1-120
 C21 U1-93
 C22 U1-74 (LOW ESR ONLY)
 C30 U1-117
 C32 U1-125
 C37 U1-121 (LOW ESR ONLY)
 C34 U1-107



SMSC
 SUCCESS BY DESIGN

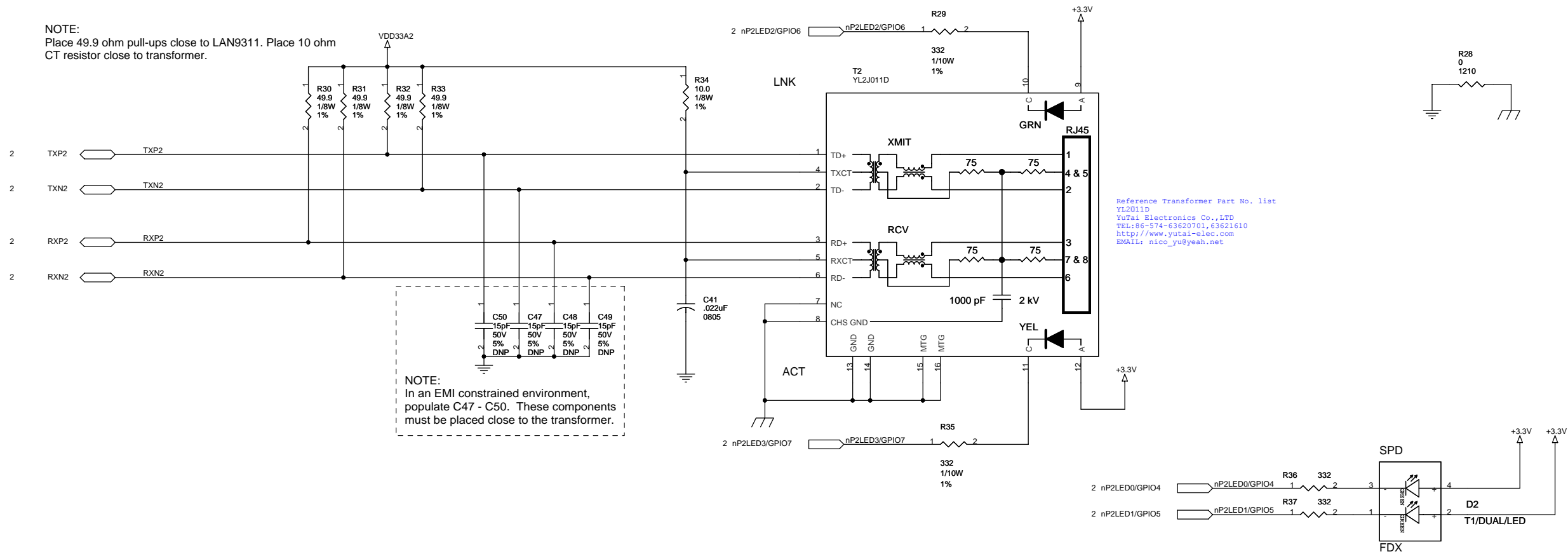
Title: LAN9311
 Size: C
 Engineer: R. Walsh
 Assembly No.: N/A
 Rev: 0.3
 Date: Thursday, January 03, 2008
 Sheet 2 of 3

NOTE:
Place 49.9 ohm pull-ups close to LAN9311. Place 10 ohm CT resistor close to transformer.



NOTE:
In an EMI constrained environment, populate C43 - C46. These components must be placed close to the transformer.

NOTE:
Place 49.9 ohm pull-ups close to LAN9311. Place 10 ohm CT resistor close to transformer.



NOTE:
In an EMI constrained environment, populate C47 - C50. These components must be placed close to the transformer.

Reference Transformer Part No. list
YL2011D
YuTai Electronics Co.,LTD
TEL:86-574-63620701,63621610
http://www.yutai-elec.com
EMAIL: nicco_yu@yeah.net