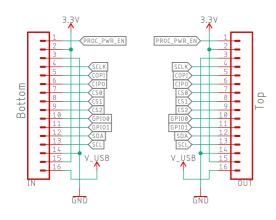
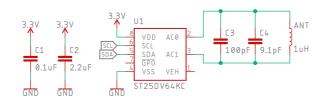
smôl Connectors



ST25DV64KC

Notes on antenna tuning:

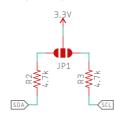
The ST25DV64KC has an internal tuning capacitance of 28.5pF
The SDTR1103—HF2—0001K RFID antenna has an inductance of 1µH
To tune the antenna circuit to 13.56MHz, the total capacitance needs to be 138pF
Adding 100pF and 9.1pF in parallel makes the total capacitance approximately 138pF
C4 may need to be tuned for best performance



Default I2C Address (User Memory) (Unshifted): 0x53 Default I2C Address (System Memory) (Unshifted): 0x57

I2C Pull-ups

Close jumper to enable I2C pull—up resistors









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TITLE: SparkX_smol_Dynamic_NFC_RFID_Tag

TITLE: SparkX_smol_Dynamic_NFC_RFID_Tag

Design by: Paul Clark REV: x01

Date: 09/11/2021 14:16 Sheet: 1/1