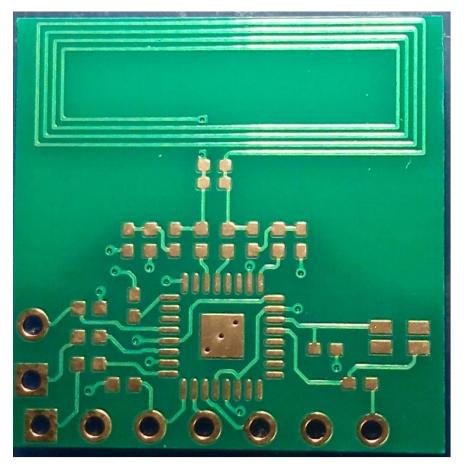
Small NFC reader

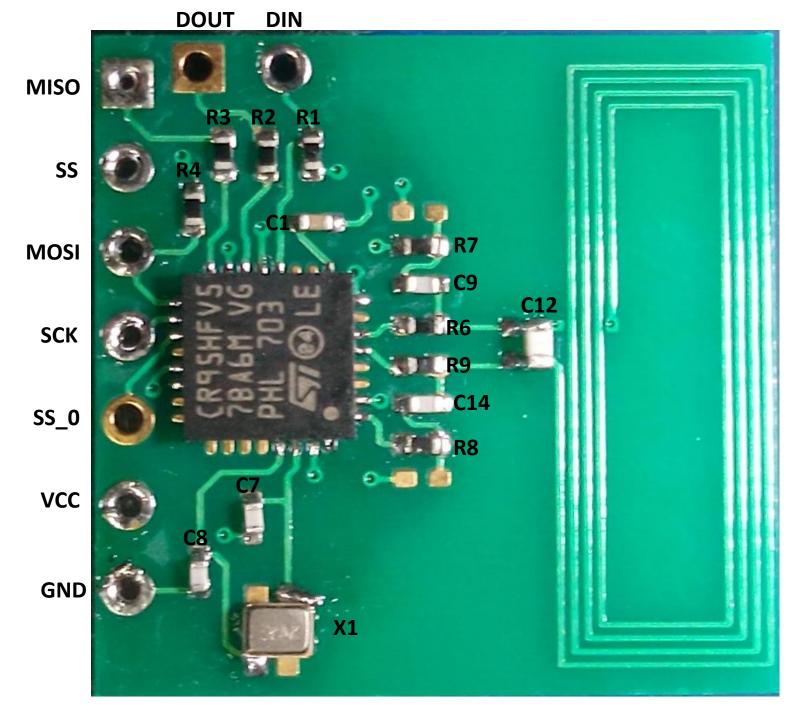
Assembly instructions



20 mm

20 mm

PCB thickness: 0.6 mm



Bill of material:

C12=330 pF Ceramic (COG/NP0) 5% 0603 or 0402

C9, C14 = 150 pF Ceramic (COG/NP0) 0402, Code: 490-3229-1-ND

C8,C7 = 15 pF Ceramic (COG/NPO) 0402, Code : 490-3117-1-ND

C1=1000 pF Ceramic (X7R) 0402, Code: 399-1032-1-ND

R6,R9 = 270 OHM 5% 0402

R7,R8 = 0 OHM 0402 Code: 1276-3480-1-ND

R1,R4 = 3.3k OHM 5% 0402 Code: 311-3.3KJRCT-ND

R2,R3 = 270 OHM 5% 0402 Code: 311-270JRCT-ND

U1 = CR95HF (32VFQFPN) Code: 497-15737-1-ND

X1= CRYSTAL 27.12 MHZ Code: 490-5581-1-ND

All codes are from Digi-Key

What do you need:



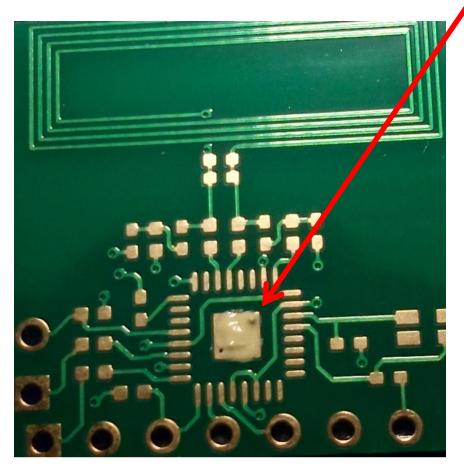


.....clamps for smd components a magnifying glass , multimeter and welder!



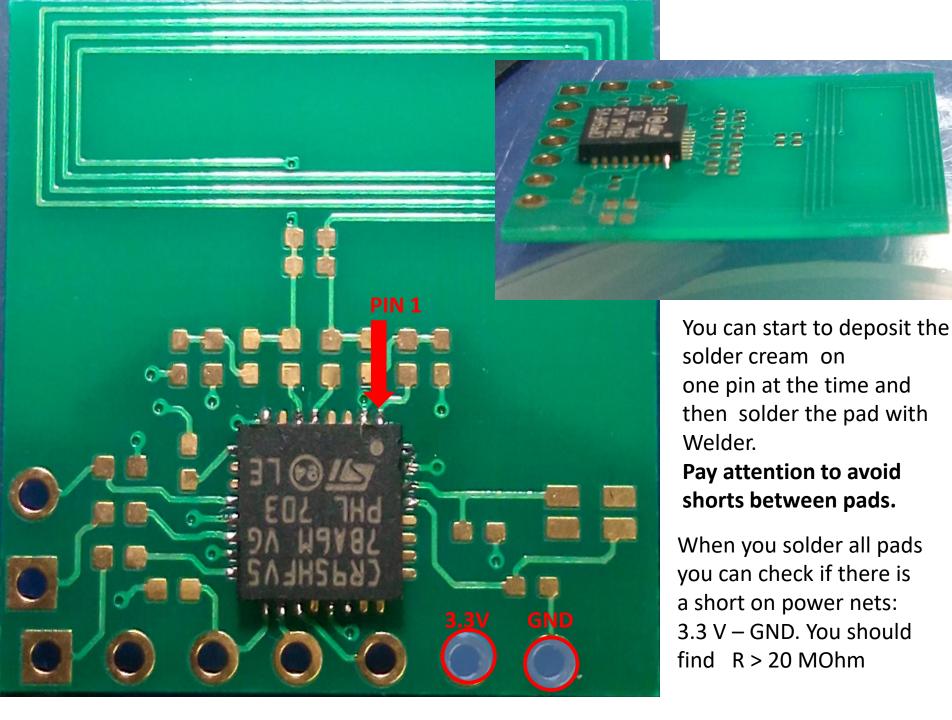
First you have to solder CR95HF:

put with a toothpick the thermal cream on the central pad of the chip:



Then you can aligne CR95HF with pcb pad. Check each chip side!

Thermal paste prevents the chip from falling or moving too much during the alignment



You can now solder crystal and all passive components like in picture:

