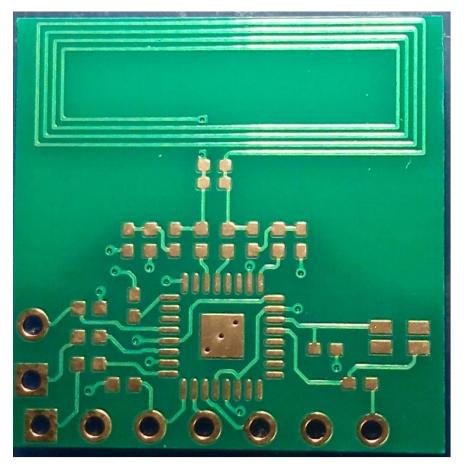
Small NFC reader

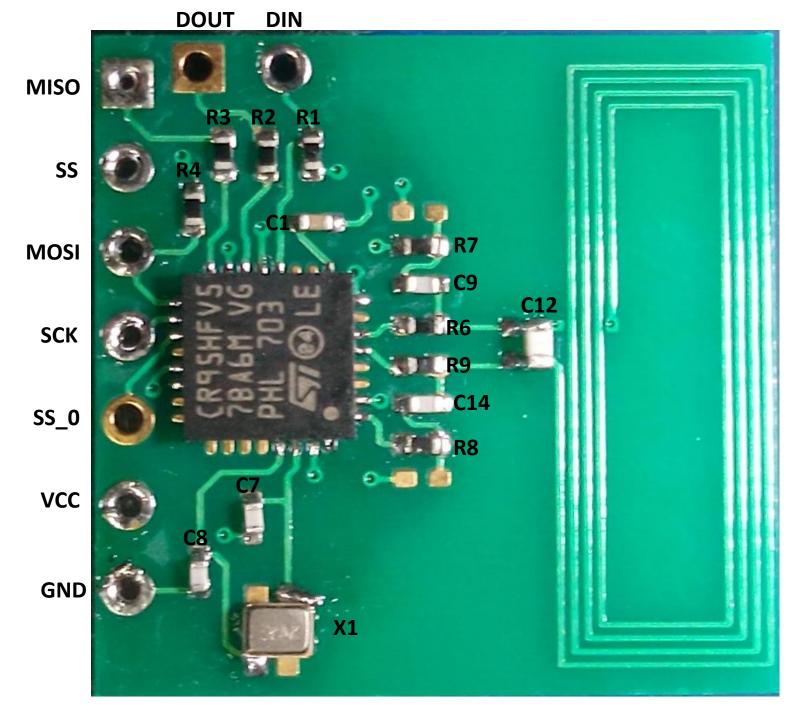
Assembly instructions



20 mm

20 mm

PCB thickness: 0.6 mm



Bill of material:

C12=560 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 = 330 OHM 5% 0402 Code: 311-330JRCT-ND

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:



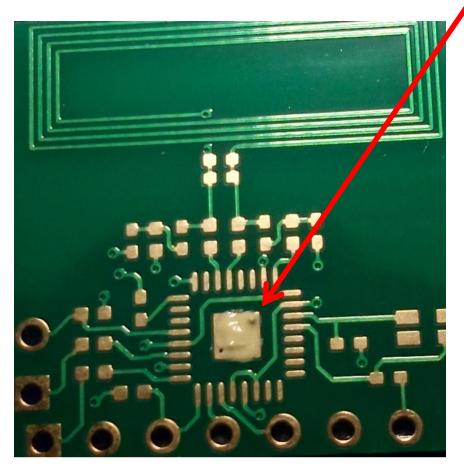


.....clamps for smd components a magnifying glass , multimeter and welder!



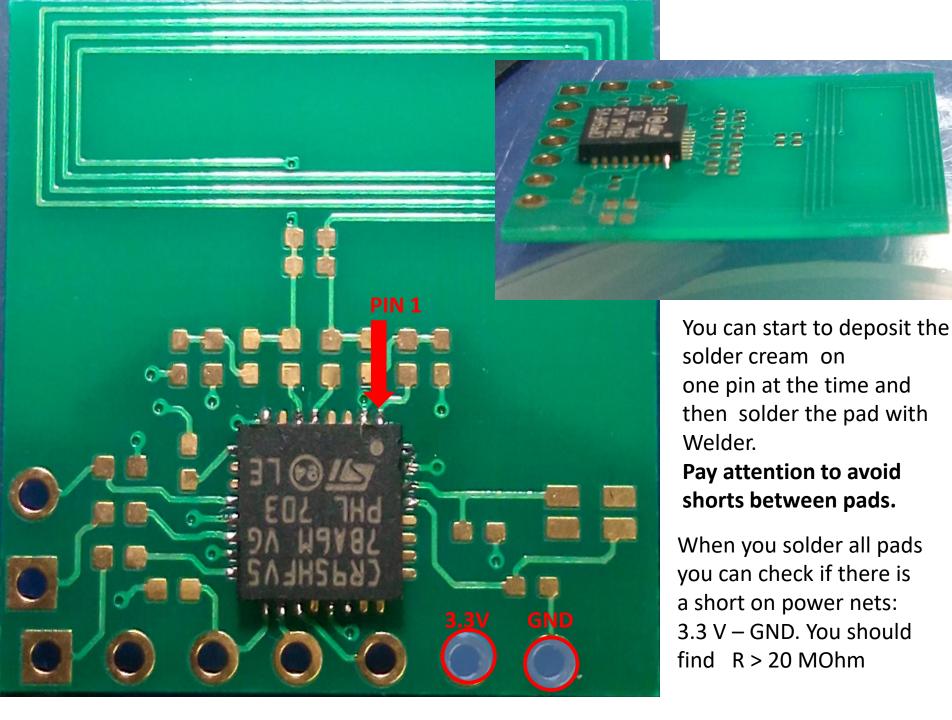
First you have to solder CR95HF:

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

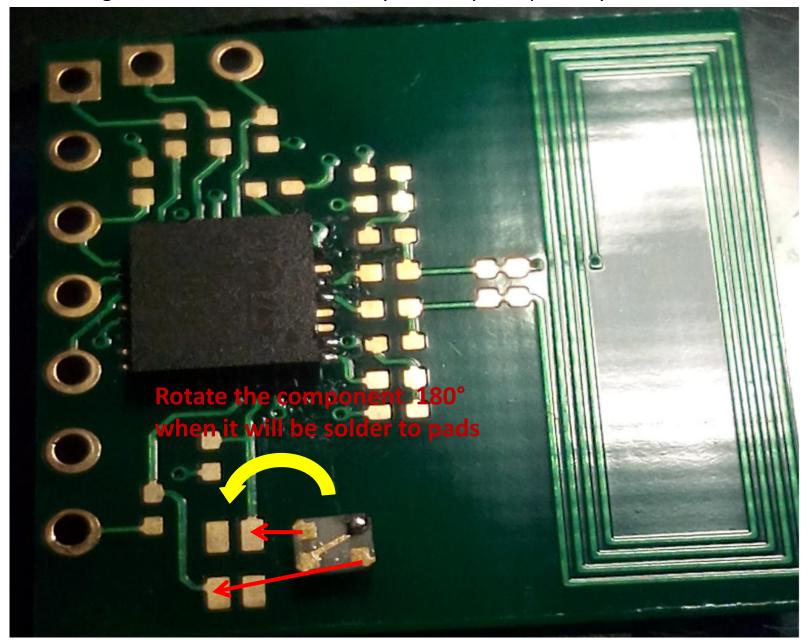


Then you can aligne CR95HF with pcb pad. Check each chip side!

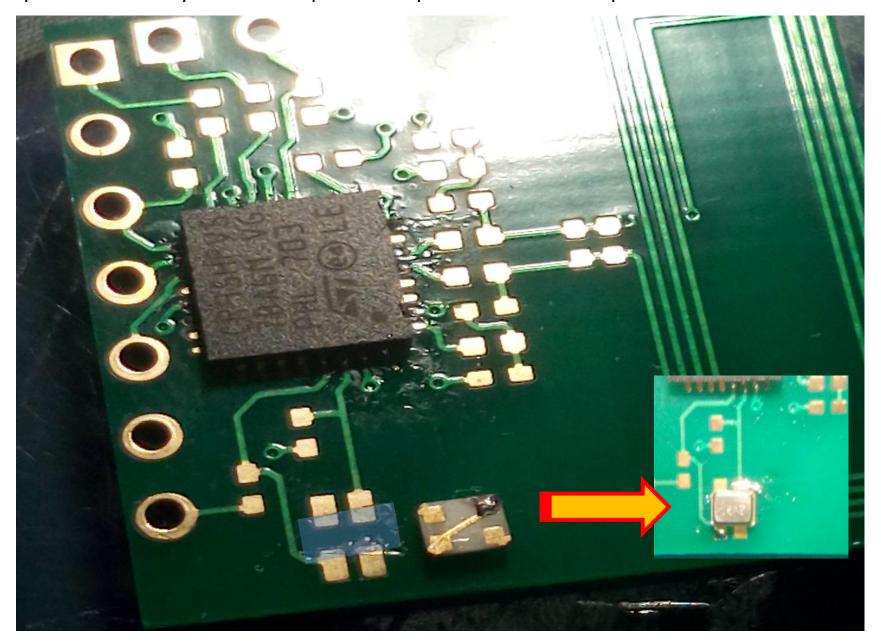
Thermal paste prevents the chip from falling or moving too much during the alignment



Crystal soldering There is a mistake on crystal footprint pcb so you need to fix it....:



To prevent short my advice is to put a little piece of adhesive tape like showed below:



You can now solder all passive components like in picture:

