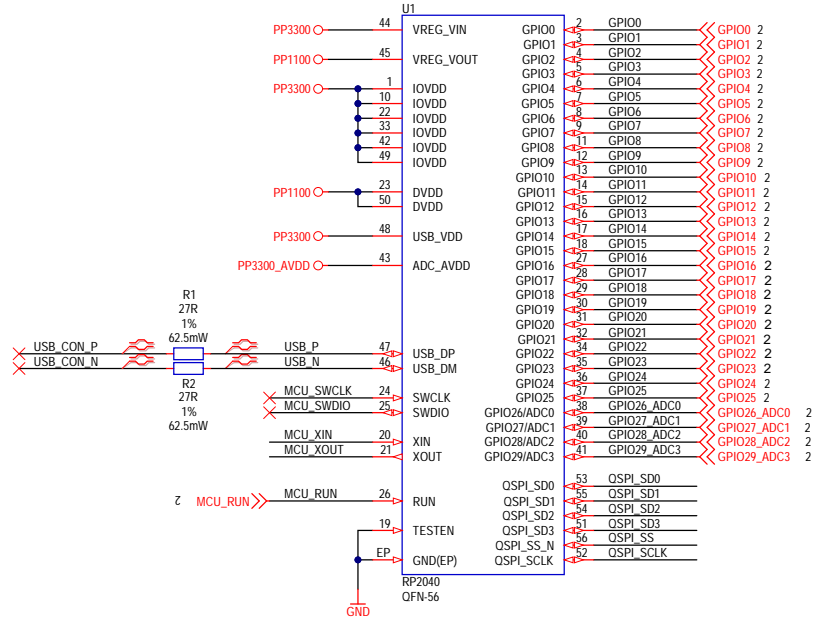
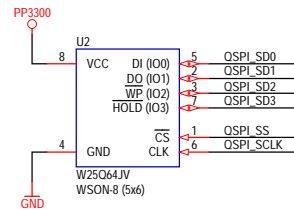


RP2040 MCU

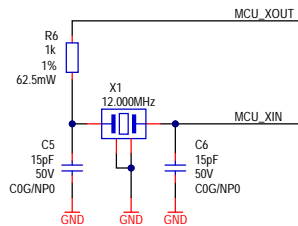


QSPI FLASH

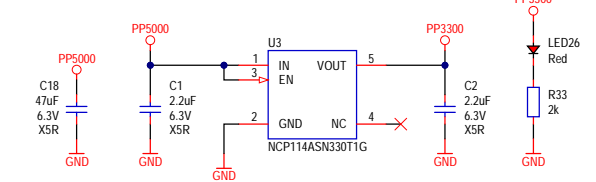


BOM:
64Mbit Flash, Quad SPI, 133MHz, WSON 5x6mm:
Winbond: W25Q64JVZPIQ (133 MHz)
GigaDevice: GD25Q64EWIGR (133 MHz)
GigaDevice: GD25Q64CWIGR (120MHz only)
Fudan Micro: FM25Q64-DNA-T-G (104 MHz only)
Boya Micro: BY25Q64ASWIG (108 MHz only)
XTX: XT25Q64DWOIGT (133 MHz)
ISSI: IS25LP064D-JKLE (166 MHz)
Dialog Semi: AT25SF641B-MHB-T (104 MHz)

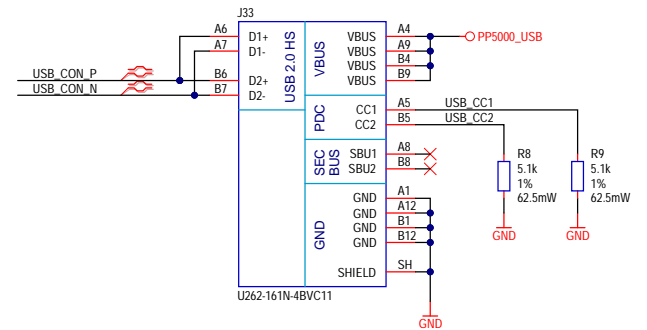
OSC



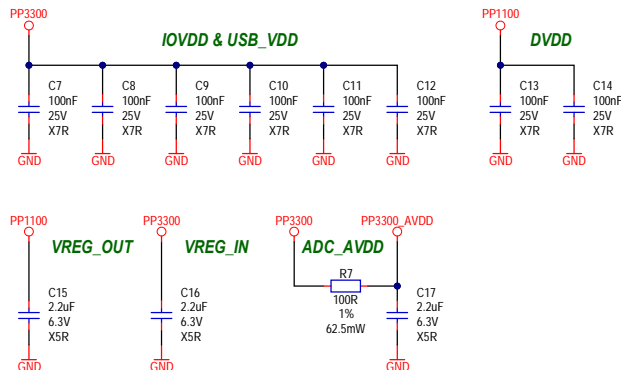
3.3V/500mA LDO



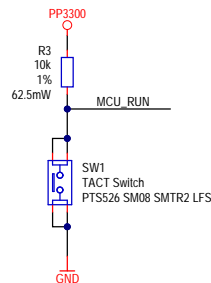
USB TYPE C



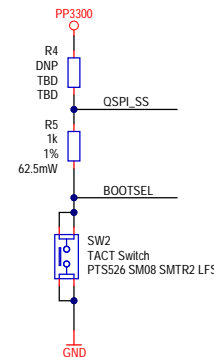
DECOUPLING CAPACITORS



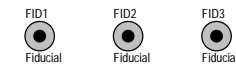
RESET



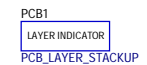
BOOT



BOM:
Tactile switch, 4.8 x 4.8 x 0.8mm, SMD:
C&K: PTS526 SM08 SMTR2 LFS
SHOU HAN: TS5208A 160gf
KXB Connectivity: TS-1187B-C
BZCN: TSC003A8035A
DOBZ: YTSC003B0801601B
Korean Hroparts Elec: K2-1187SN-A3SW-0.6



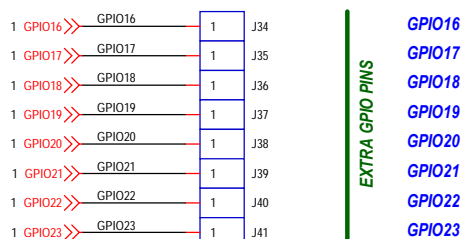
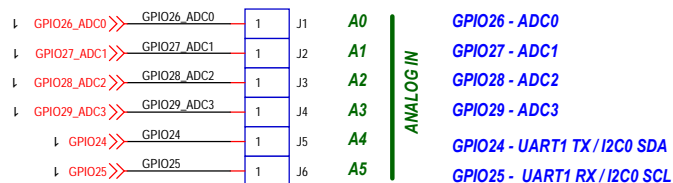
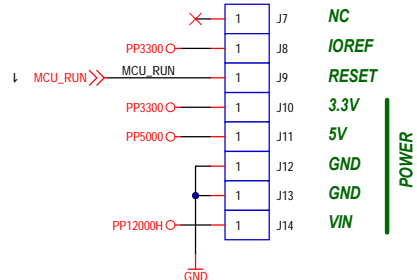
LAYOUT:
Route USB signals as matched length 90 Ohm differential pairs. The P N signals should ideally be matched to 0.15mm.



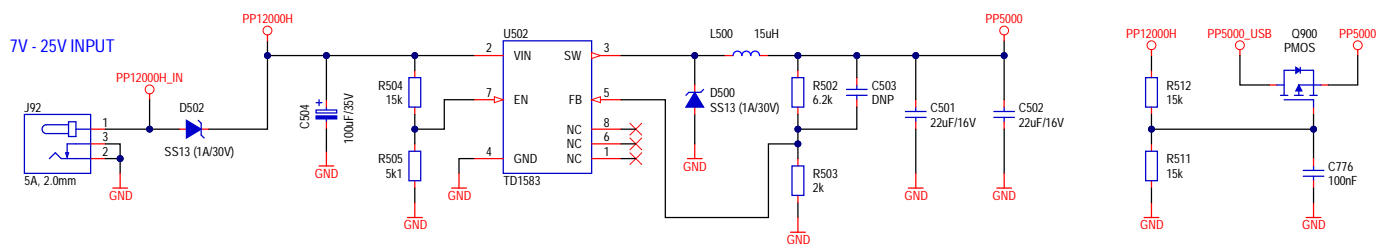
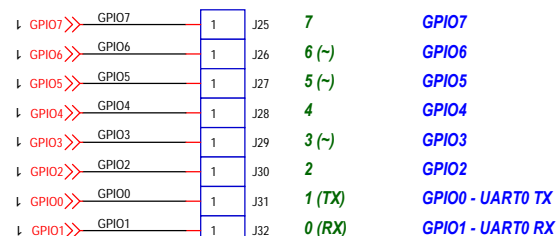
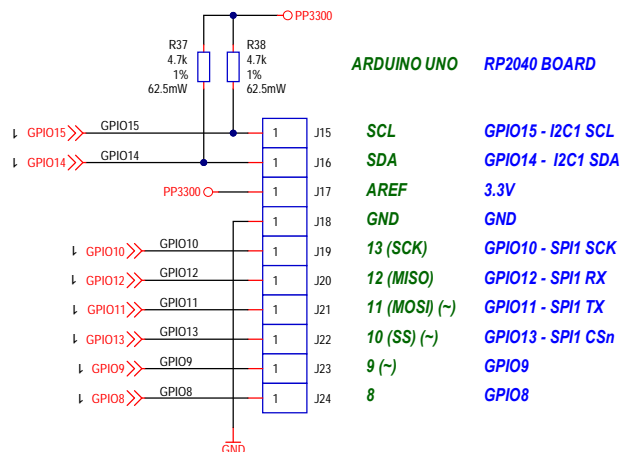
		Mirko Electronics Smoka Wawelskiego 1 30-535 Krakow, Poland	Size B
Title Raspberry Pi RP2040 MCU			Version V1
Project: Polanduino	Variant: [No Variations]	RefDes: 1_99	Revision R1
Designer: M. Folejewski		Sheet: 1 / 2	
File Name: 1011 MCU_SchDoc		Printed: 08.12.2022	

ARDUINO UNO PIN HEADER

ARDUINO UNO RP2040 BOARD




ARDUINO UNO RP2040 BOARD



BOM:
DC Barrel Jack, 2.1x5.5mm:
Würth Elektronik, MPN: 694 108 301 002
XKB Connectivity, MPN: DC-005-5A-2.0

BOM:
15uH -> compatible components (7.0x6.6x2.8mm):
Changjiang Microelectronics Tech - FXL0630-150-M
Sumida = 0630CDMCCDS-150MC
Bourns = SRP7028C-150M, SRP7028AA-150M
Bourns = SRP6030VA-150M

BOM:
P-MOS -> compatible transistors:
LGE, MPN = LGE2305
HUASHUO, MPN = HSS2307
Vishay, MPN = SI2305CDS-T1-GE3

 mirko electronics		Mirko Electronics Smoka Wawelskiego 1 30-535 Kraków, Poland	Size B
Title Arduino Uno socket			Version V1
Project: Variant:	Polanduino [No Variations]	RefDes: Sheet:	Revision R1
Designer: File Name:	M. Folejewski [02] Arduino_SchDoc	1_99 2 / 2 Printed: 08.12.2022	