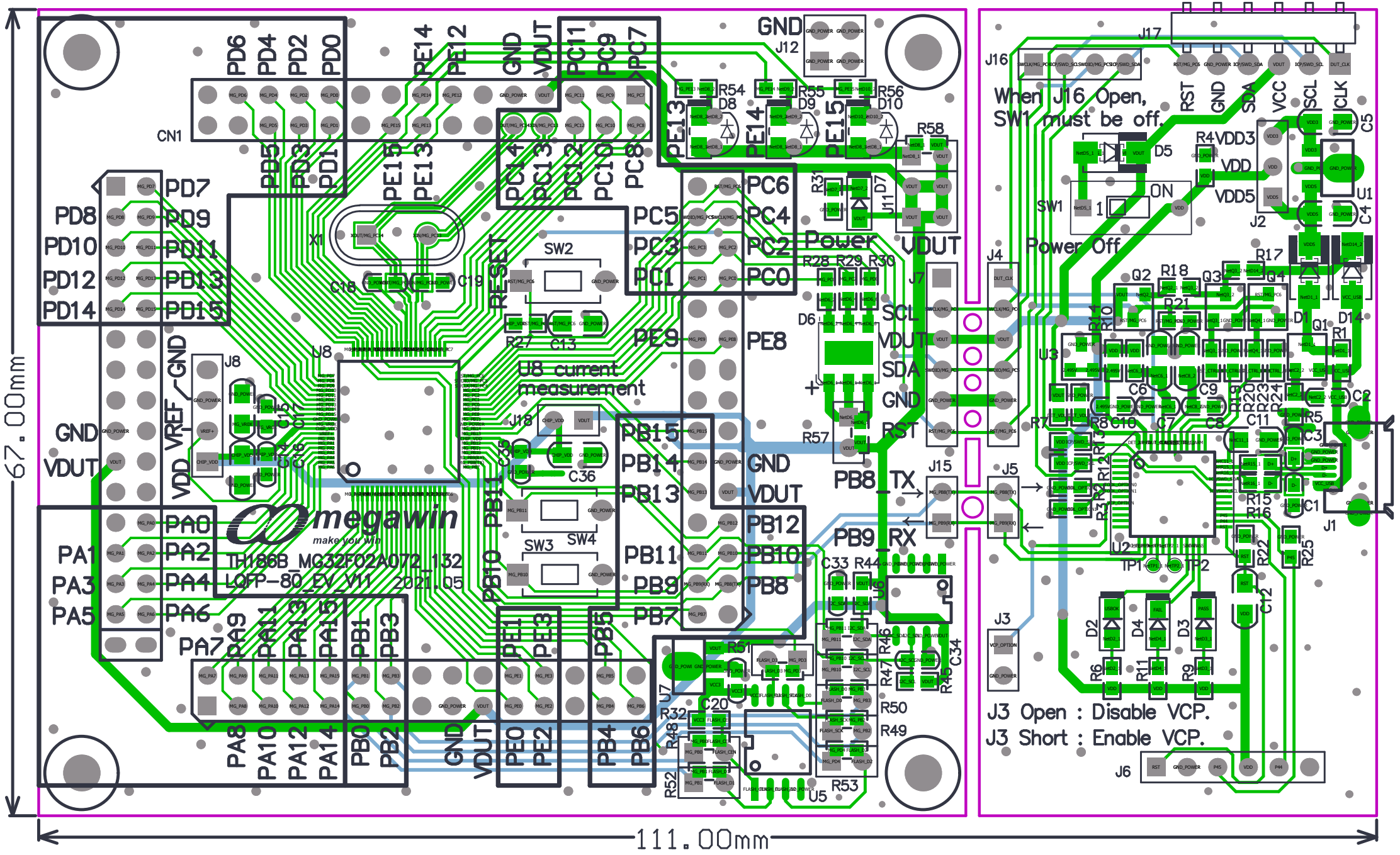
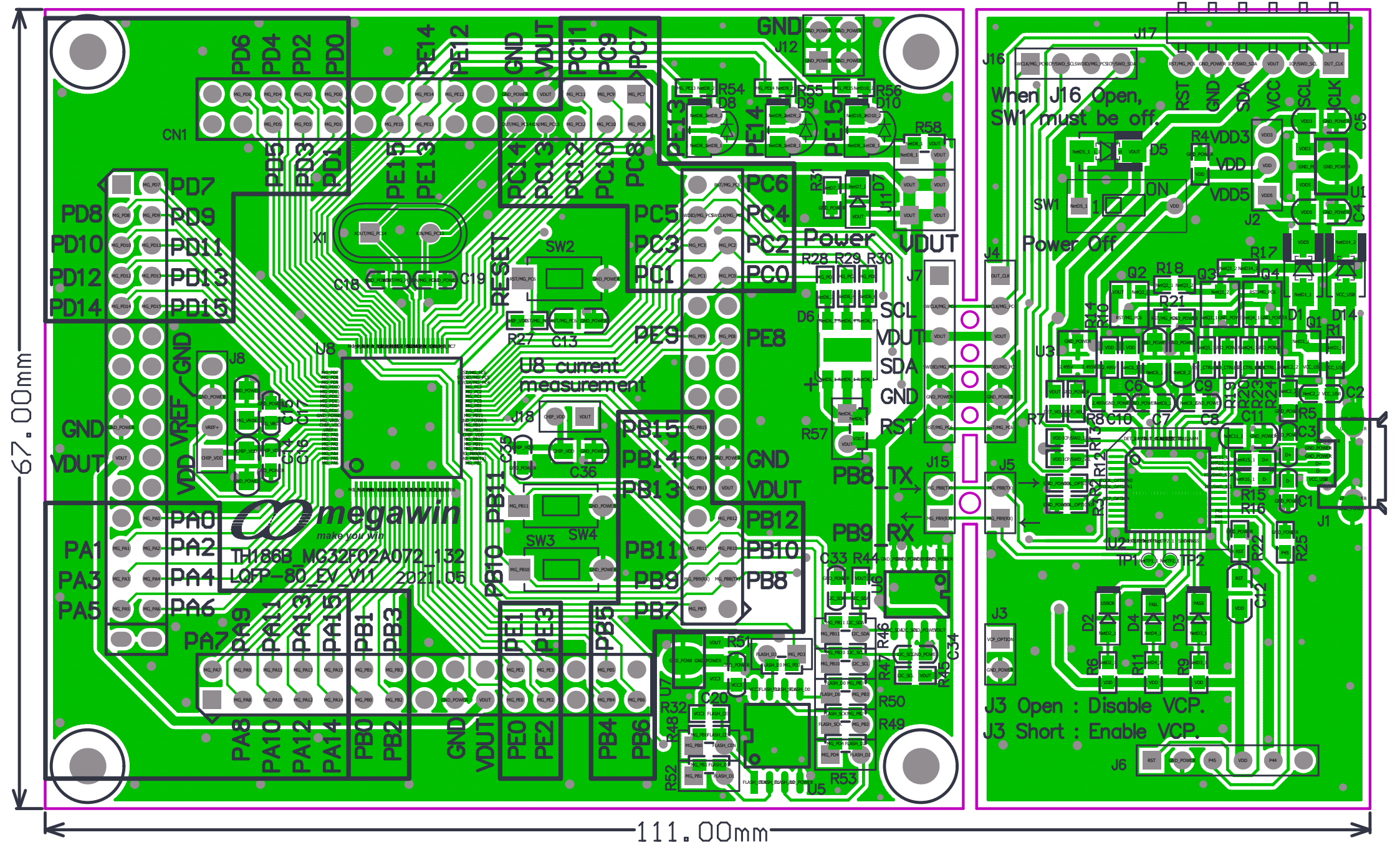
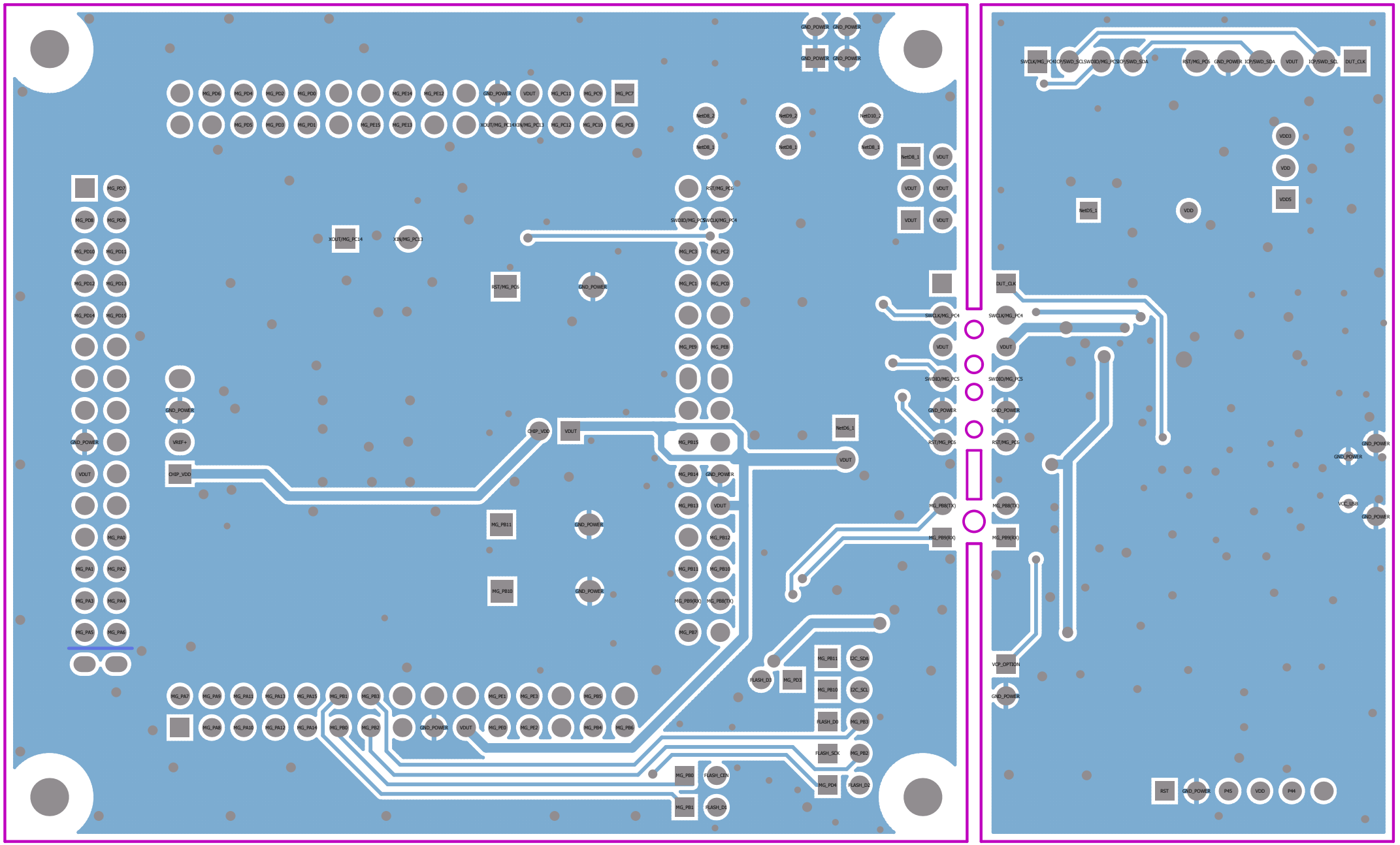
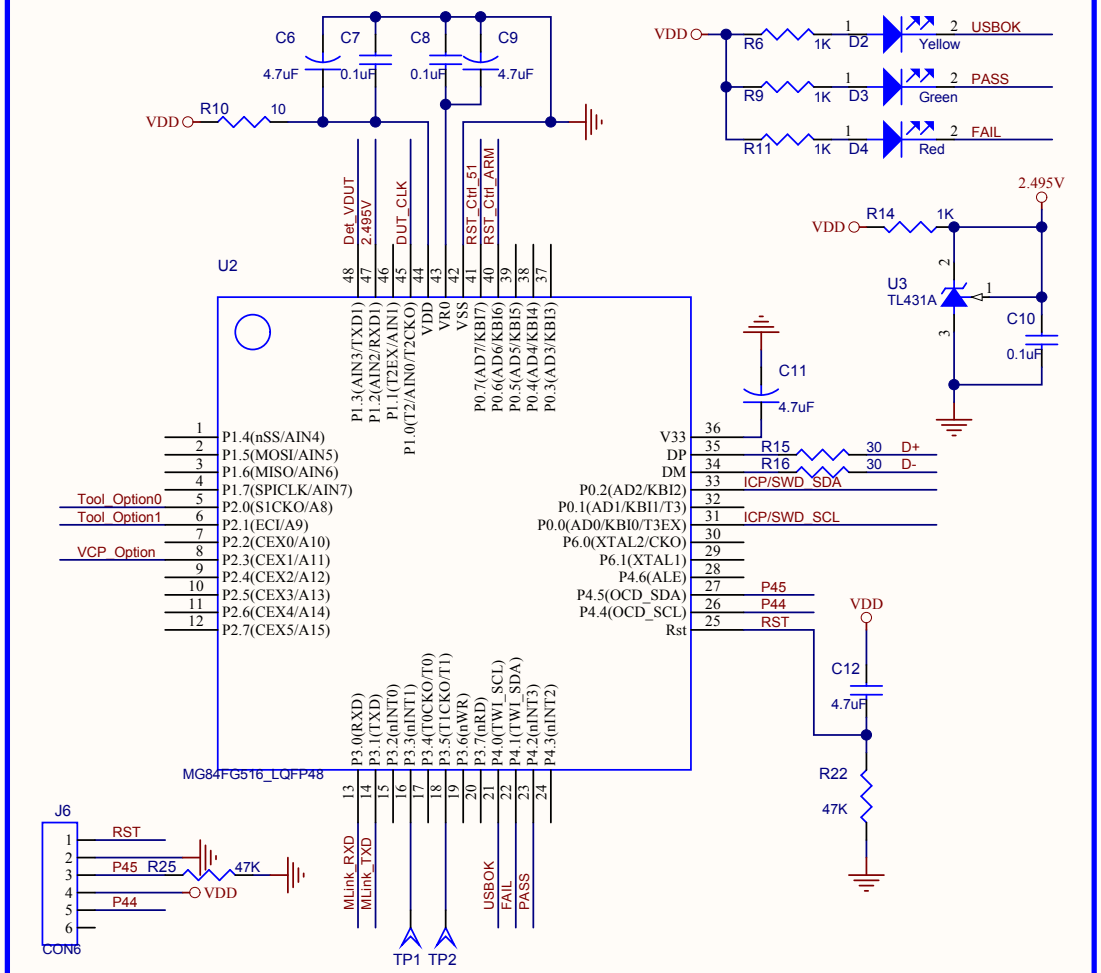

67.00mm
111.00mm
megawin
make your MCU
TH186B_MG32F02A072_132
LQFP-80_EV_V11
2021.05
U8 current measurement
When J16 Open,
SW1 must be off.
Power Off
J3 Open : Disable VCP.
J3 Short : Enable VCP.
CN1
J16
J17
J12
J8
J15
J5
J3
J6
SW1
SW2
SW3
SW4
X1
U1
U2
U3
U5
U7
U8
U9
J1
J2
J4
J7
J18
TP1
TP2
VDUT
VDD
VDD3
VDD5
GND
SCL
SDA
RST
TX
RX
VREF
PD7
PD9
PD11
PD13
PD15
PD8
PD10
PD12
PD14
PA0
PA2
PA4
PA6
PA1
PA3
PA5
PA7
PA8
PA10
PA12
PA14
PB0
PB2
PB4
PB6
PB1
PB3
PB5
PB7
PB8
PB10
PB12
PB14
PB15
PB13
PB11
PB9
PE0
PE2
PE1
PE3
PE4
PE6
PE5
PE7
PE8
PE9
PC0
PC2
PC4
PC6
PC1
PC3
PC5
PC7
PC9
PC11
PC13
PC15
PC14
PC12
PC10
PC8
PE15
PE13
PE11
PE9
PE14
PE12
PE10
PD6
PD4
PD2
PD0
PD5
PD3
PD1

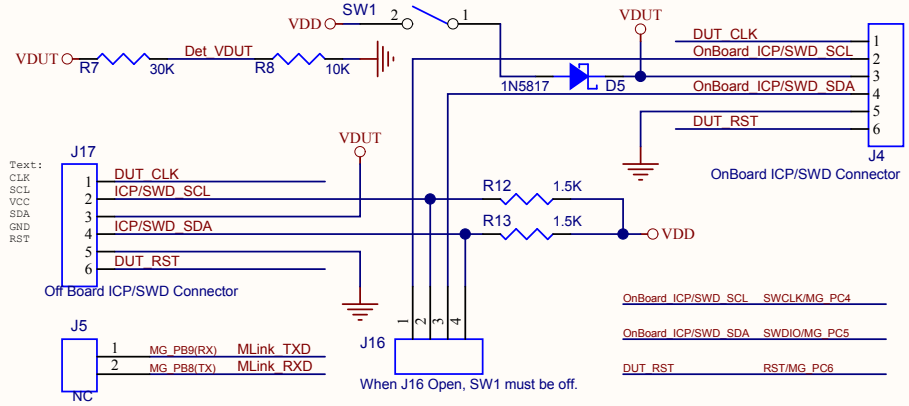

67.00mm
111.00mm
megawin
make your MCU
TH1868_MG32F02A072_132
LQFP-80_EV_V11
2021.05
When J16 Open,
SW1 must be off.
Power Off
Power
U8 current
measurement
J3 Open : Disable VCP.
J3 Short : Enable VCP.
CN1
J16
J17
SW1
SW2
SW3
SW4
J1
J2
J3
J4
J5
J6
J7
J8
J12
J15
U1
U2
U3
U4
U5
U6
U7
U8
X1
PD6 PD4 PD2 PD0
PE14 PE12 GND VDUT PC11 PC9 PC7
PD7 PD5 PD3 PD1
PE15 PE13 PC14 PC13 PC12 PC10 PC8
PD8 PD9
PD10 PD11
PD12 PD13
PD14 PD15
PC6 PC4
PC5 PC3 PC2
PC1 PC0
PE9 PE8
PB15 PB14 PB13 PB11 PB9 PB7
GND VDUT PB12 PB10 PB8
PA0 PA1 PA2 PA3 PA4 PA5 PA6 PA7
PA9 PA11 PA13 PA15 PB1 PB3
PE1 PE3 PB5
PA8 PA10 PA12 PA14 PB0 PB2
GND VDUT PE0 PE2 PB4 PB6
GND VDUT VREF+ VREF-
PB10 PB11
PE10 PE11
PC15
PB12
PB10
PB8
PB9
PB11
PB13
PB14
PB15
PE8
PE9
PC0
PC2
PC4
PC6
PC5
PC3
PC1
PE13
PE14
PE15
PD7
PD8
PD9
PD10
PD11
PD12
PD13
PD14
PD15
PA0
PA1
PA2
PA3
PA4
PA5
PA6
PA7
PA8
PA10
PA12
PA14
PB0
PB2
PB4
PB6
PE0
PE2
PE1
PE3
PB5
PB1
PB3
PA9
PA11
PA13
PA15
GND
VDUT
VREF+
VREF-
SCL
SDA
RST
TX
RX
VDUT
GND
VDD
VDD3
VDD5
ON
SWCLK
SWDIO
SCL
SDA
RST
GND
VCC
CLK


GND_POWER
VDUT
XOUT/MG_PC14
XIN/MG_PC13
RST/MG_PC6
SWDIO/MG_PC5
SWCLK/MG_PC4
CHIP_VDD
VREF+
MG_PB15
MG_PB14
MG_PB13
MG_PB12
MG_PB11
MG_PB10
MG_PB9(RX)
MG_PB8(TX)
FLASH_D3
FLASH_D0
FLASH_SCK
FLASH_CEN
FLASH_D1
FLASH_D2
I2C_SDA
I2C_SCL
VCP_OPTION
OUT_CLK
VDD3
VDD
VDD5
RST
P45
P44

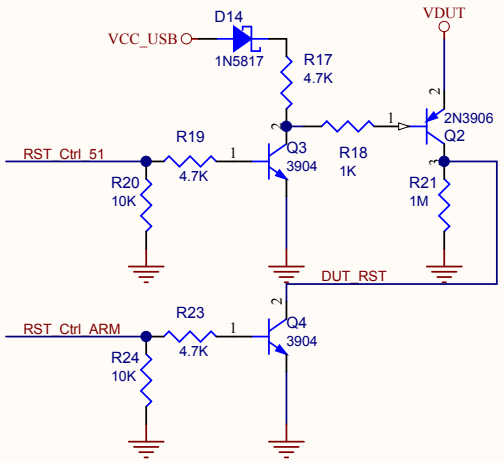
Main MCU



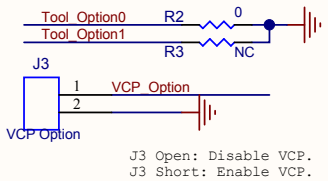
ICE Interface

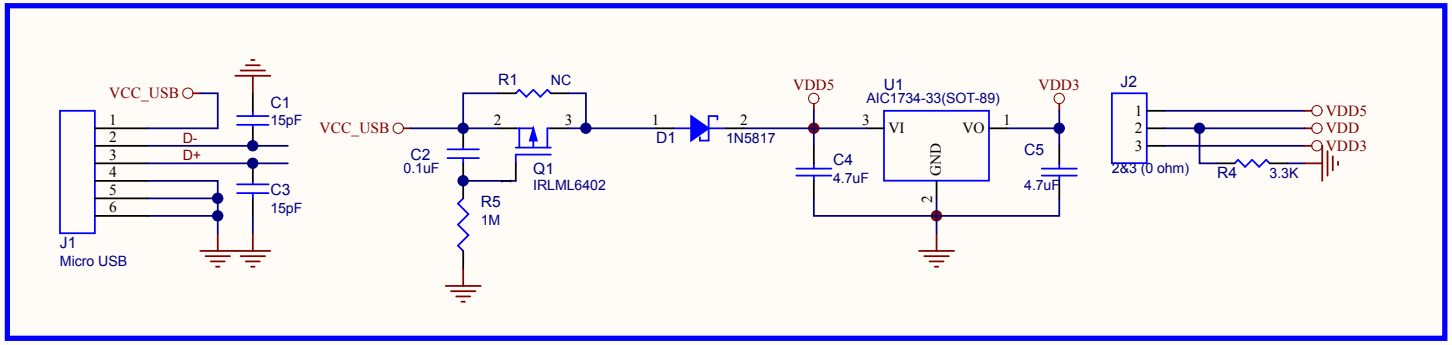


RST Pin Ctrl



Tool Option





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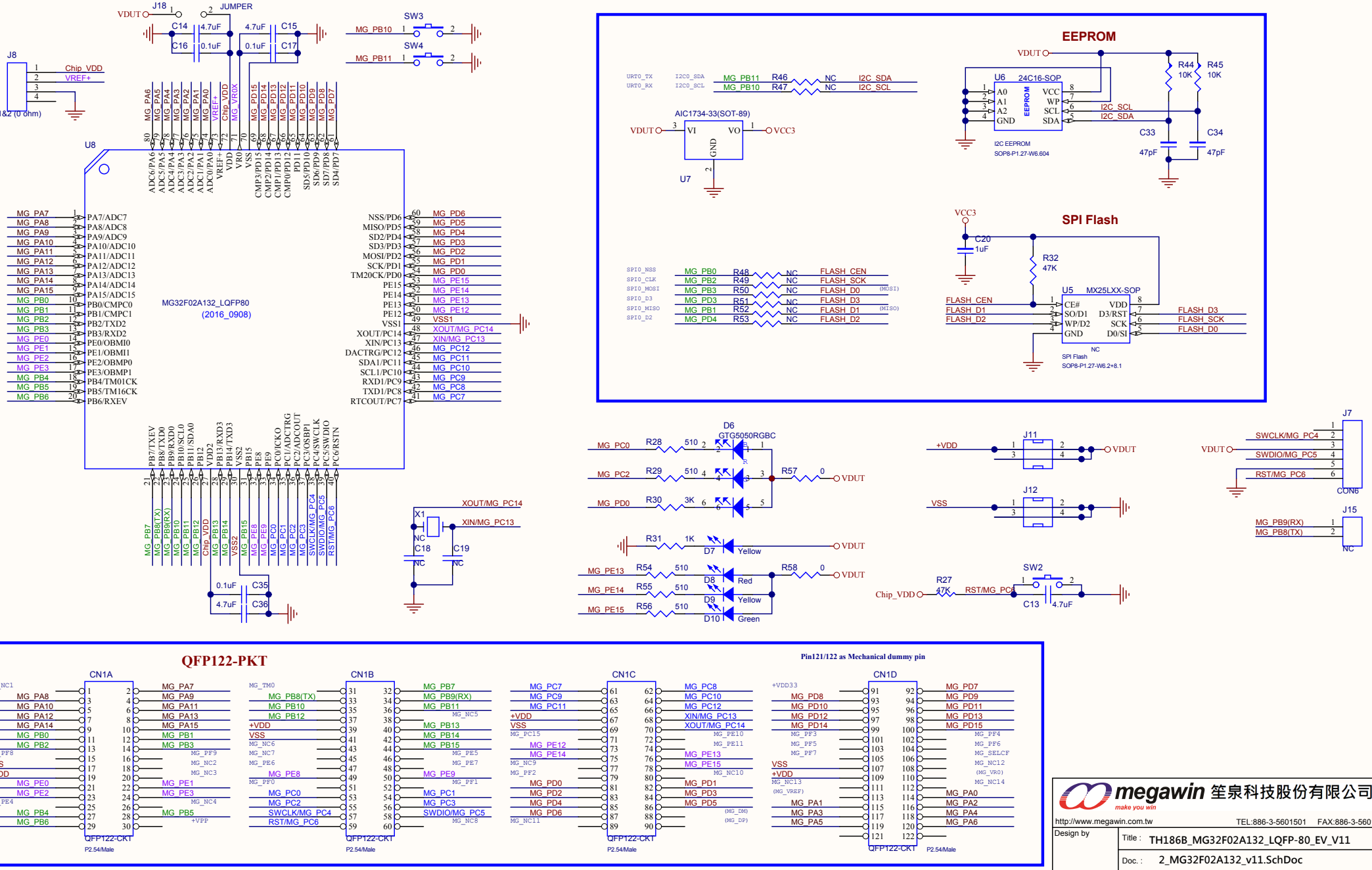
EEPROM
SPI Flash
QFP122-PKT
Pin121/122 as Mechanical dummy pin
MG32F02A132_LQFP80
(2016_0908)
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