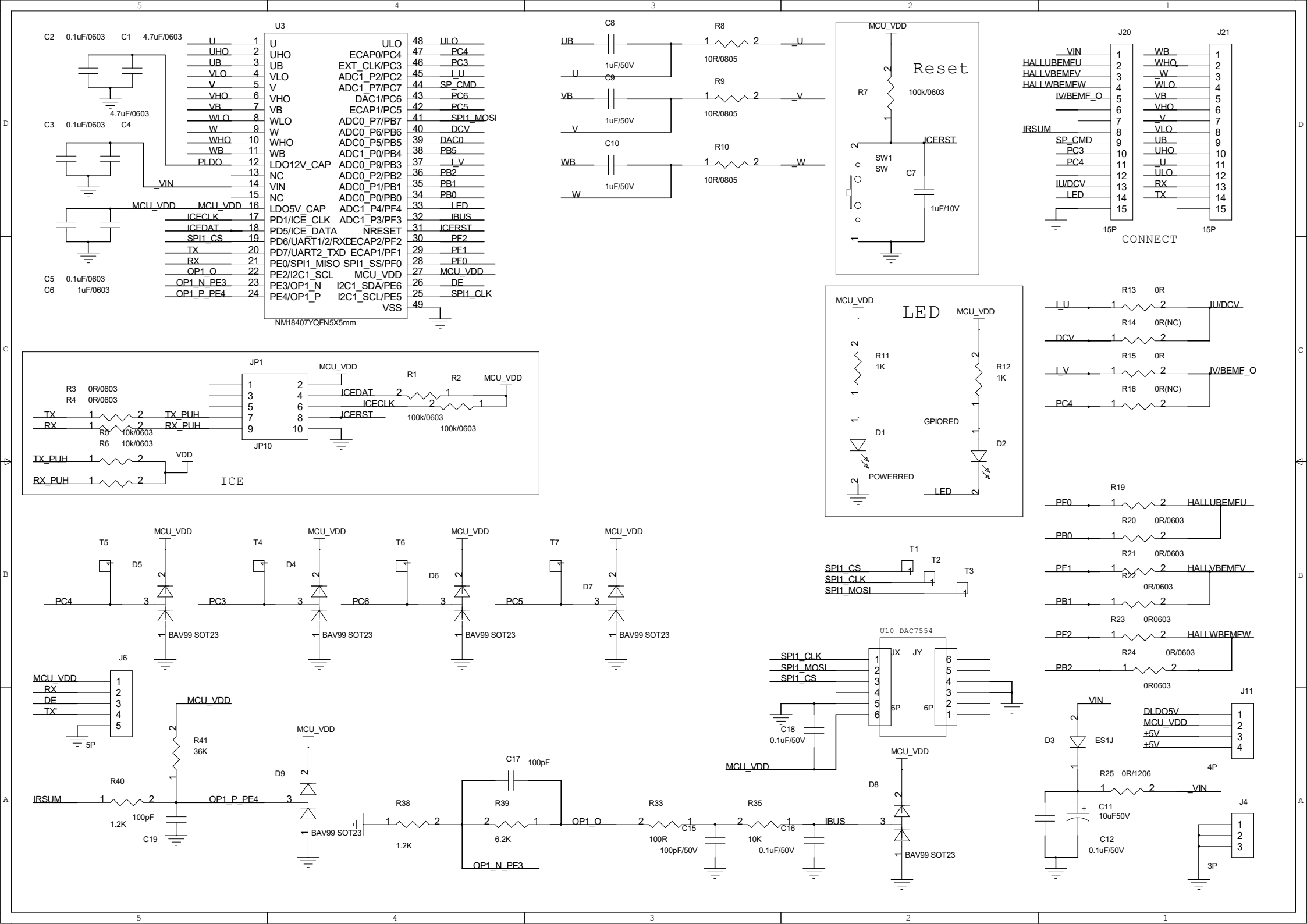
U3
NM18407YQFN5X5mm
C2 0.1uF/0603
C1 4.7uF/0603
4.7uF/0603
C3 0.1uF/0603
C4
C5 0.1uF/0603
C6 1uF/0603
U UHO UB VLO V VHO VB WLO W WHO WB PLDO
LDO12V_CAP NC VIN NC LDO5V_CAP PD1/ICE_CLK PD5/ICE_DATA PD6/UART1/2/RXD PD7/UART2_TXD PE0/SPI1_MISO PE2/I2C1_SCL PE3/OP1_N PE4/OP1_P
ULO ECAP0/PC4 EXT_CLK/PC3 ADC1_P2/PC2 ADC1_P7/PC7 DAC1/PC6 ECAP1/PC5 ADC0_P7/PB7 ADC0_P6/PB6 ADC0_P5/PB5 ADC1_P0/PB4 ADC0_P9/PB3 ADC0_P2/PB2 ADC0_P1/PB1 ADC0_P0/PB0 ADC1_P4/PF4 ADC1_P3/PF3 NRESET ECAP2/PF2 ECAP1/PF1 MCU_VDD SPI1_SS/PF0 I2C1_SDA/PE6 I2C1_SCL/PE5 VSS
ULO PC4 PC3 I_U SP_CMD PC6 PC5 SPI1_MOSI DCV DAC0 PB5 I_V PB2 PB1 PB0 LED IBUS ICERST PF2 PF1 PF0 MCU_VDD DE SPI1_CLK
VIN MCU_VDD
ICECLK ICEDAT SPI1_CS TX RX OP1_O OP1_N_PE3 OP1_P_PE4
C8 1uF/50V
C9 1uF/50V
C10 1uF/50V
UB U VB V WB W
R8 10R/0805
R9 10R/0805
R10 10R/0805
_U _V _W
MCU_VDD
Reset
R7 100k/0603
ICERST
SW1
SW
C7 1uF/10V
J20 J21
VIN HALLUBEMFU HALLVBEMFV HALLWBEMFW IV/BEMF_O IRSUM SP_CMD PC3 PC4 IU/DCV LED
WB WHO _W WLO VB VHO _V VLO UB UHO _U ULO RX TX
15P 15P
CONNECT
JP1
JP10
R3 0R/0603
R4 0R/0603
R5 10k/0603
R6 10k/0603
R1
R2
100k/0603
100k/0603
TX RX TX_PUH RX_PUH
ICEDAT ICECLK ICERST
VDD
ICE
MCU_VDD
LED
R11 1K
R12 1K
D1
D2
GPIORED
POWERRED
LED
R13 0R
R14 0R(NC)
R15 0R
R16 0R(NC)
I_U DCV I_V PC4
IU/DCV IV/BEMF_O
T5 T4 T6 T7
D5 D4 D6 D7
PC4 PC3 PC6 PC5
BAV99 SOT23
T1 T2 T3
SPI1_CS SPI1_CLK SPI1_MOSI
R19 R20 R21 R22 R23 R24
PF0 PB0 PF1 PB1 PF2 PB2
HALLUBEMFU HALLVBEMFV HALLWBEMFW
0R/0603
J6
MCU_VDD RX DE TX'
5P
R41 36K
R40 1.2K
100pF
C19
D9
IRSUM
OP1_P_PE4
R38 1.2K
C17 100pF
R39 6.2K
OP1_N_PE3
OP1_O
R33 100R
C15 100pF/50V
R35 10K
C16 0.1uF/50V
IBUS
D8
U10 DAC7554
SPI1_CLK SPI1_MOSI SPI1_CS
JX JY
6P 6P
C18 0.1uF/50V
J11
VIN
D3 ES1J
DLDO5V MCU_VDD +5V +5V
4P
R25 0R/1206
C11 10uF50V
C12 0.1uF/50V
J4
3P