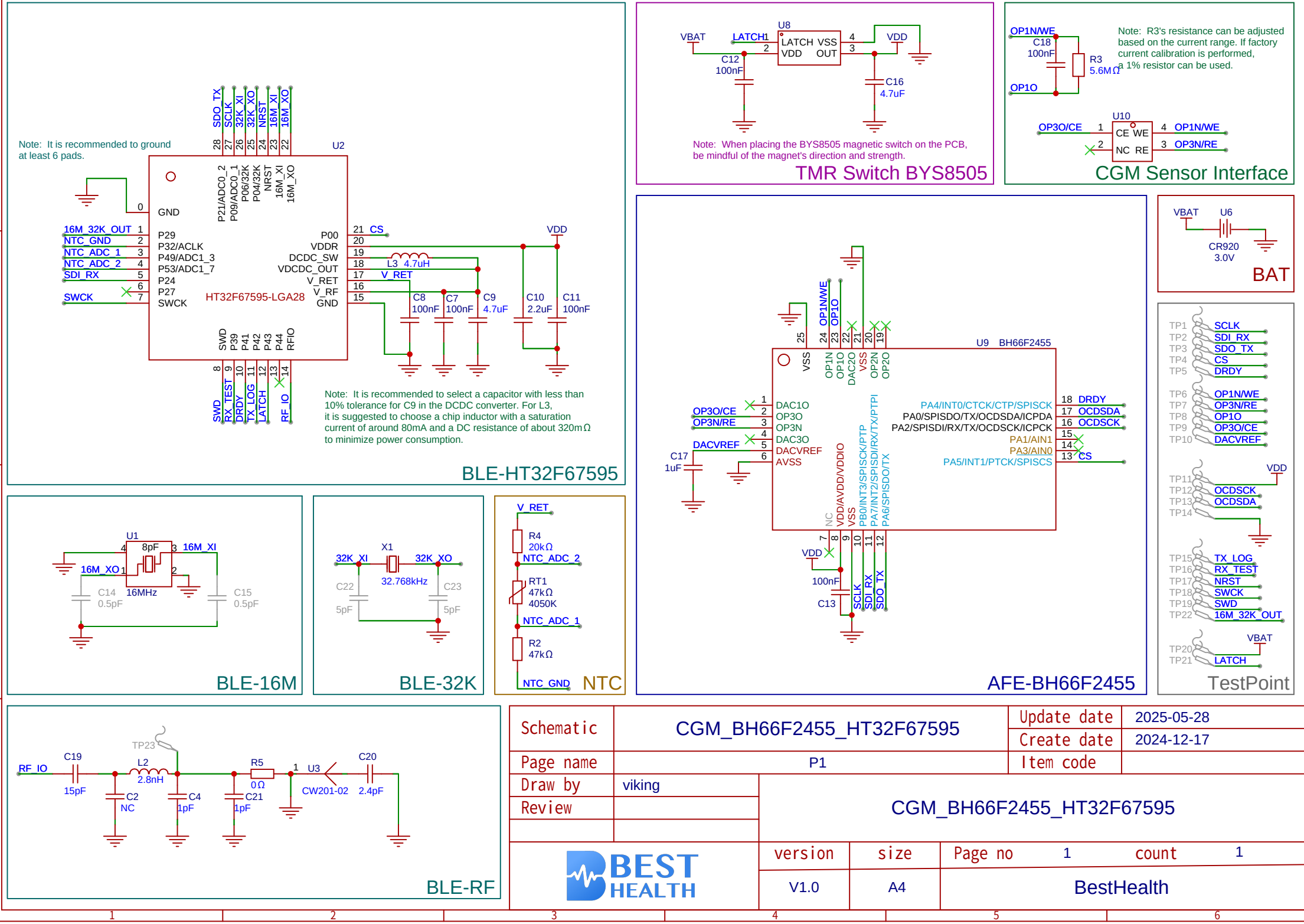
BLE-HT32F67595
Note: It is recommended to ground at least 6 pads.
U2
HT32F67595-LGA28
GND
P29
P32/ACLK
P49/ADC1_3
P53/ADC1_7
P24
P27
SWCK
P00
VDDR
DCDC_SW
VDCDC_OUT
V_RET
V_RF
GND
16M_32K_OUT
NTC_GND
NTC_ADC_1
NTC_ADC_2
SDI_RX
SWCK
CS
L3 4.7uH
V_RET
C8 100nF
C7 100nF
C9 4.7uF
C10 2.2uF
C11 100nF
VDD
SDO_TX
SCLK
32K_XI
32K_XO
NRST
16M_XI
16M_XO
SWD
RX_TEST
DRDY
TX_LOG
LATCH
RF_IO
Note: It is recommended to select a capacitor with less than 10% tolerance for C9 in the DCDC converter. For L3, it is suggested to choose a chip inductor with a saturation current of around 80mA and a DC resistance of about 320mΩ to minimize power consumption.
BLE-16M
U1
8pF
16M_XI
16M_XO
C14 0.5pF
16MHz
C15 0.5pF
BLE-32K
X1
32K_XI
32K_XO
32.768kHz
C22 5pF
C23 5pF
NTC
V_RET
R4 20kΩ
NTC_ADC_2
RT1 47kΩ 4050K
NTC_ADC_1
R2 47kΩ
NTC_GND
TMR Switch BYS8505
U8
LATCH VSS
VDD OUT
VBAT
LATCH
VDD
C12 100nF
C16 4.7uF
Note: When placing the BYS8505 magnetic switch on the PCB, be mindful of the magnet's direction and strength.
CGM Sensor Interface
OP1N/WE
C18 100nF
R3 5.6MΩ
OP1O
Note: R3's resistance can be adjusted based on the current range. If factory current calibration is performed, a 1% resistor can be used.
U10
CE WE
NC RE
OP3O/CE
OP1N/WE
OP3N/RE
BAT
VBAT
U6
CR920 3.0V
AFE-BH66F2455
U9 BH66F2455
VSS
OP1N
OP1O
DAC2O
VSS
OP2N
OP2O
OP1N/WE
OP1O
OP3O/CE
OP3N/RE
DACVREF
C17 1uF
DAC1O
OP3O
OP3N
DAC3O
DACVREF
AVSS
PA4/INT0/CTCK/CTP/SPISCK
PA0/SPISDO/TX/OCDSDA/ICPDA
PA2/SPISDI/RX/TX/OCDSCK/ICPCK
PA1/AIN1
PA3/AIN0
PA5/INT1/PTCK/SPISCS
DRDY
OCDSDA
OCDSCK
CS
NC
VDD/AVDD/VDDIO
VSS
PB0/INT3/SPISCK/PTP
PA7/INT2/SPISDI/RX/TX/PTPI
PA6/SPISDO/TX
VDD
100nF
C13
SCLK
SDI_RX
SDO_TX
TestPoint
TP1 SCLK
TP2 SDI_RX
TP3 SDO_TX
TP4 CS
TP5 DRDY
TP6 OP1N/WE
TP7 OP3N/RE
TP8 OP1O
TP9 OP3O/CE
TP10 DACVREF
VDD
TP11 OCDSCK
TP12 OCDSDA
TP13
TP14
TP15 TX_LOG
TP16 RX_TEST
TP17 NRST
TP18 SWCK
TP19 SWD
TP22 16M_32K_OUT
VBAT
TP20
TP21 LATCH
BLE-RF
RF_IO
C19 15pF
TP23
L2 2.8nH
C2 NC
C4 1pF
R5 0Ω
C21 1pF
U3 CW201-02
C20 2.4pF
Schematic
CGM_BH66F2455_HT32F67595
Update date
2025-05-28
Create date
2024-12-17
Page name
P1
Item code
Draw by
viking
Review
CGM_BH66F2455_HT32F67595
BEST HEALTH
version
V1.0
size
A4
Page no 1 count 1
BestHealth