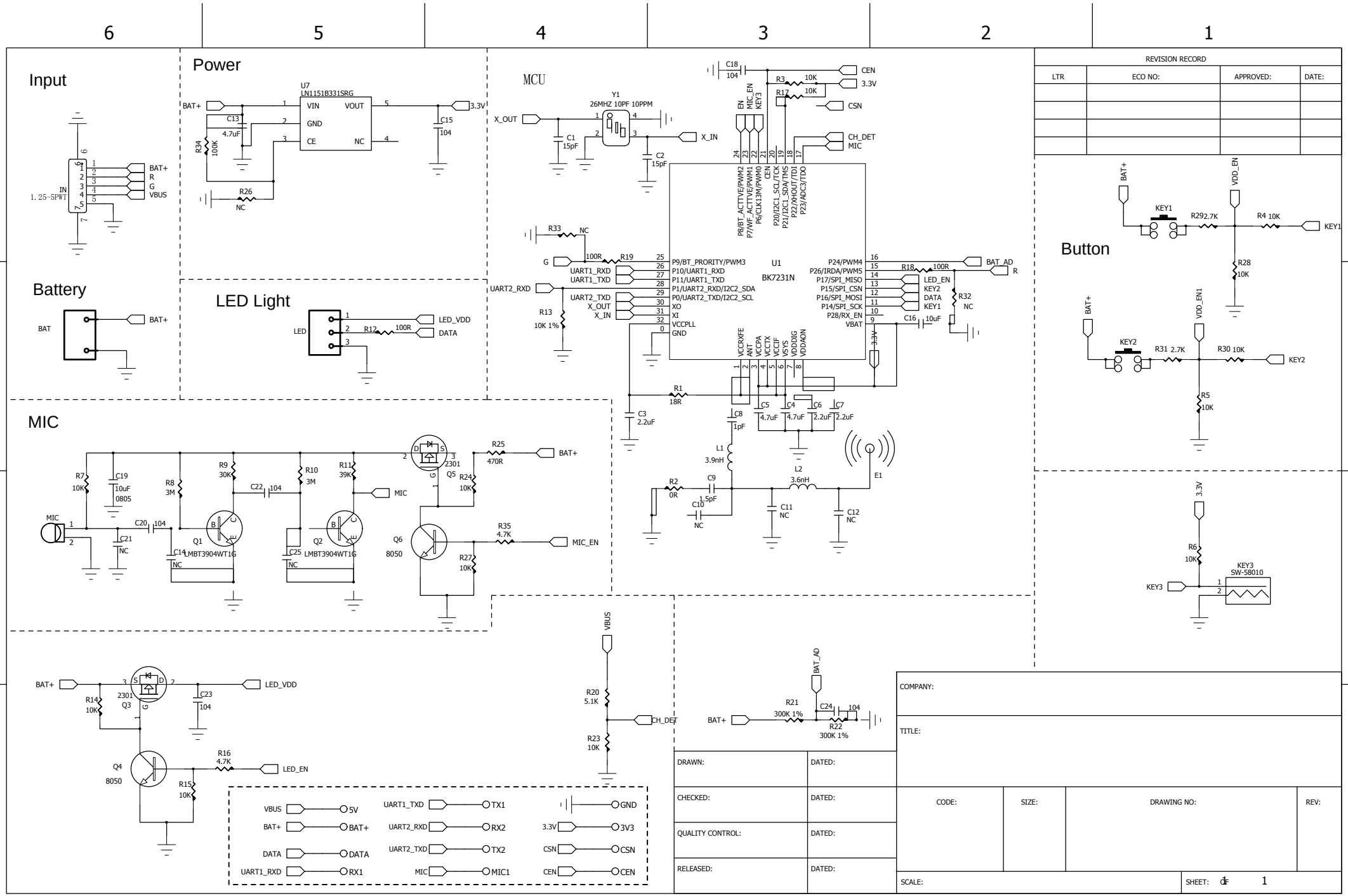
Input
Power
MCU
Battery
LED Light
MIC
Button
U7
LN1151B331SRG
VIN
VOUT
GND
CE
NC
BAT+
3.3V
C13
4.7uF
C15
104
R34
100K
R26
NC
Y1
26MHZ 10PF 10PPM
X_OUT
X_IN
C1
15pF
C2
15pF
C18
104
R3
10K
R17
10K
CEN
CSN
CH_DET
MIC
EN
MIC_EN
KEY3
P8/BT_ACTTVE/PWM2
P7/WF_ACTTVE/PWM1
P6/CLK13M/PWM0
CEN
P20/I2C1_SCL/TCK
P21/I2C1_SDA/TMS
P22/XHOUT/TDI
P23/ADC3/TDO
R33
NC
G
100R
R19
UART1_RXD
UART1_TXD
UART2_RXD
UART2_TXD
X_OUT
X_IN
R13
10K 1%
P9/BT_PRORITY/PWM3
P10/UART1_RXD
P11/UART1_TXD
P1/UART2_RXD/I2C2_SDA
P0/UART2_TXD/I2C2_SCL
XO
XI
VCCPLL
GND
U1
BK7231N
P24/PWM4
P26/IRDA/PWM5
P17/SPI_MISO
P15/SPI_CSN
P16/SPI_MOSI
P14/SPI_SCK
P28/RX_EN
VBAT
R18
100R
BAT_AD
R
LED_EN
KEY2
DATA
KEY1
R32
NC
C16
10uF
VCCRXFE
ANT
VCCPA
VCCTX
VCCIF
VSYS
VDDDIG
VDDAON
R1
18R
C3
2.2uF
C8
1pF
C5
4.7uF
C4
4.7uF
C6
2.2uF
C7
2.2uF
L1
3.9nH
L2
3.6nH
R2
0R
C9
1.5pF
C10
NC
C11
NC
C12
NC
E1
BAT+
KEY1
R29 2.7K
R4 10K
VDD_EN
R28
10K
KEY2
R31 2.7K
R30 10K
VDD_EN1
R5
10K
R7
10K
C19
10uF
0805
R8
3M
R9
30K
C22
104
R10
3M
R11
39K
MIC
C20
104
C21
NC
C14
NC
Q1
LMBT3904WT1G
Q2
LMBT3904WT1G
C25
NC
Q5
2301
R25
470R
R24
10K
Q6
8050
R35
4.7K
MIC_EN
R27
10K
R6
10K
KEY3
SW-58010
R14
10K
Q3
2301
C23
104
LED_VDD
Q4
8050
R16
4.7K
LED_EN
R15
10K
VBUS
R20
5.1K
R23
10K
R21
300K 1%
C24
104
R22
300K 1%
VBUS
5V
BAT+
BAT+
DATA
DATA
UART1_RXD
RX1
UART1_TXD
TX1
UART2_RXD
RX2
UART2_TXD
TX2
MIC
MIC1
GND
3.3V
3V3
CSN
CSN
CEN
CEN
REVISION RECORD
LTR
ECO NO:
APPROVED:
DATE:
COMPANY:
TITLE:
DRAWN:
DATED:
CHECKED:
DATED:
QUALITY CONTROL:
DATED:
RELEASED:
DATED:
CODE:
SIZE:
DRAWING NO:
REV:
SCALE:
SHEET: 1 OF 1