









| 100nF | capacitor | C1, C2, C4, C5, C6 | CAP_0402i_1005m | Cap | 11 |
|-------------------|--------------------|--------------------|------------------|------------------|----|
| 200nF | capacitor | C3, C8 | CAP_0402i_1005m | Cap | 2 |
| 47pF | capacitor | C9, C10 | CAP_0402i_1005m | Сар | 2 |
| 2.2uF | capacitor | C14, C18, C20 | CAP_0805i_2012m | Cap | 3 |
| 47uF | capacitor | C15 | CAP_1206i_3216m | Сар | 1 |
| 10uF | capacitor | C16 | CAP_0805i_2012m | Cap | 1 |
| Green | Red 631nm LED II | D1, D5 | 0603_LED | LTST-C191KRKT | 2 |
| Red | Red 631nm LED II | D2, D3 | 0603_LED | LTST-C191KRKT | 2 |
| Orange | Red 631nm LED II | D4 | 0603_LED | LTST-C191KRKT | 1 |
| 40A Fuse | Fuse | F1 | FUSE_1206I_3216N | | 1 |
| 690-005-299-043 | USB - mini B USB : | J1 | EDAC_690-005-299 | 690-005-299-043 | 1 |
| 3.3uH | Inductor | L1 | IND_1210i_3225m | Inductor | 1 |
| Charger + | | P1 | AWG-10-Hole-1 | Pin | 1 |
| Charger - | | P2 | AWG-10-Hole-1 | Pin | 1 |
| BAT + | | P3 | AWG-10-Hole-1 | Pin | 1 |
| OUT + | | P4 | AWG-10-Hole-1 | Pin | 1 |
| BAT - | | P5 | AWG-10-Hole-1 | Pin | 1 |
| OUT - | | P6 | AWG-10-Hole-1 | Pin | 1 |
| Header 3 | Header, 3-Pin | P7 | 1.27mm HDR1X3 | Header 3 | 1 |
| Temp-Sensor | Header, 2-Pin | P8 | HDR1X2 | Header 2 | 1 |
| Tag-Connect TC 20 | 10-pin pogo pin p | P9 | TAG-CONNECT T | Tag-Connect TC20 | 1 |
| XH Bat Balancer | Header, 4-Pin | P10 | JST_B4B-XH-A(LF | Header 4 | 1 |
| XH Charger Baland | Header, 4-Pin | P11 | JST_B4B-XH-A(LF) | Header 4 | 1 |
| 200u | RES 200 UOHM 19 | R1 | WSL3921L2000FE | WSL3921L2000FEA | 1 |
| 10k | Resistor | R2, R5, R6, R17, R | RES_0402i_1005m | Res | 8 |
| 12k | Resistor | R3, R4 | RES_0402i_1005m | Res | 2 |
| 8.2k | Resistor | R7, R11 | RES_0402m_1005i | Res | 2 |
| 1.5k | Resistor | R8 | RES_0402i_1005m | Res | 1 |
| 1k | Resistor | R9, R23, R24, R25 | RES_0402i_1005m | Res | 4 |
| FRB 600 | Resistor | R10, R12 | RES_0603i_1608m | Res | 2 |
| ? | Resistor | R13 | RES_0402m_1005i | Res | 1 |
| 27 | Resistor | R14, R15 | RES_0402i_1005m | Res | 2 |
| 220k | Resistor | R16, R18, R20, R2 | RES_0402i_1005m | Res | 6 |
| | | | | | |

R19, R21, R30, R31 RES_0402i_1005m Res

RES_0402i_1005m Res

TL3305AF160QG

21-0036K_MXM-L

QFP80P900X900X1

CSD16570Q5B

M_A8000D

DFN-12 FTD

SW_JS202011JCQ|JS202011JCQN

SOIC 127P600X175 LM324KADR

SOT95P280X110-6 TPS561201DDCR

TL3305AF160QG

MAX1614EUA+T

STM32L051K6T6

CSD16570Q5B

INA 286A IDR

FT234XD-R

Footprint

LibRef

Quantity

6

1

1

1

2

1

1

1

1

1

Comment

110k

33.2k

JS202011JCQN

CSD16570Q5B

INA 286A IDR

FT234XD-R

LM324KADR

TL3305A F 160Q G

MAX1614EUA+T

STM32L021K4T6

Resistor

Resistor

TPS561201DDCR | 4.5V to 17V Input, U6

Slide Switch DPDT

No Description Av U1

No Description Av U2

No Description Av U4

ARM® Cortex®-N

Power NMOS

R22

S1

S2

U3

U5

T1, T2

Description

Designator