

Sheet1

Ref	Value	Part	Footprint
AE1	Antenna_Loop	device:Antenna_Loop	
BT1	1020_Keystone	device:Battery_Cell	
C1	10uF	device:CP	
C2	10uF	device:CP	
C3	10nF	device:C	
C4	100nF	device:C	
C5	100nF	device:C	
C6	1uF	device:C	
C7	100nF	device:C	
C8	4.7uF	device:C	
C9	4.7uF	device:C	
C10	100pF	device:C	
C11	10nF	device:C	
D1	5050_LED_RGB	ozsecdev:5050_LED_RGB	
D2	5050_LED_RGB	ozsecdev:5050_LED_RGB	
J1	Conn_01x07	conn:Conn_01x07	
J2	Conn_01x04	conn:Conn_01x04	
J3	Conn_01x04	conn:Conn_01x04	
J4	USB_A	conn:USB_A	
J5	Conn_01x02	conn:Conn_01x02	
J6	Conn_01x02	conn:Conn_01x02	
L1	4.7uH	device:L	
R1		22 device:R	
R2		22 device:R	
R3	2.7M	device:R	
R4	470k	device:R	
R5	10k	device:R	
R6	10k	device:R	
U1	TPS61222DCKR	ozsecdev:TPS61222DCKR	
U2	STM32F042C6T6	ozsecdev:STM32F042C6T6	Housings_DFI
U3	M24SR02-YMN6T	ozsecdev:M24SR02-YMN6T	

~31 components.

PCBs and Assembly

Sheet1

Description	Mouser Link
Loop Antenna symbol	
single battery cell	https://au.mouser.c
Polarised capacitor	
Polarised capacitor	
Unpolarized capacitor	
Unpolarized capacitor	
Unpolarized capacitor	
Unpolarized capacitor	
Unpolarized capacitor	
Unpolarized capacitor	
Unpolarized capacitor	
Unpolarized capacitor	
5050 RGB LED	
5050 RGB LED	
Generic connector, single row, 01x07	
Generic connector, single row, 01x04	
Generic connector, single row, 01x04	
USB Type A connector	
Generic connector, single row, 01x02	
Generic connector, single row, 01x02	
Inductor	
Resistor	
Resistor	
Resistor	
Resistor	
Resistor	
Resistor	
TPS6122x Low Input Voltage, 0.7V Boost Converter With 5.5µA Quiescent Current	https://au.mouser.co
V_LQFP:LQFP-48-1EP_7x7mm_Pitch0.5mm	https://au.mouser.com https://au.mouser.com

0
3.16
0.1
0.1
0.1
0.1
0.1
0.1
0.1
0.1
0.1
0.1
0.1
0.1
0.1
0.1
0.1
0.1
0.1
0.1
0.1
0.05
0.05
0.05
0.05
0.05
0.05

2.74
0.738
\$8.94

\$13.19