

# Part List

Bill of Materials for Project [PE2.PrjPcb] (No PCB Document Selected)

Source Data From: PE2.PrjPcb  
 Project: PE2.PrjPcb  
 Variant: None

Report Date: 28-2-2023 17:58  
 Print Date: 28-Feb-23 5:58:48 PM

Designator	Comment	LibRef	Footprint	Description
ANT3	PCB Antenna 2.4Ghz 50ohm	Antenna 2.4Ghz	2.4Ghz Antenna	
C1, C2, C3, C4, C5, C16, C17, C18, C19, C20, C21, C22, C24, C?		Cap	CAP_0603	Capacitor
C6, C7, C8, C9, C10, C11, C12, C13, C14, C15	0402	Cap	CAP_0402	Capacitor
D1, D4, D5		Diode BAT17	SOT-23_L	Silicon RF Schottky Diode for Mixer Applications in the VHF/UHF Range
D2	USBL C6-2SC6	CMP-2000-05378-1	STM-SOT23-6L_V	Very low capacitance ESD protection, 3.5 pF, -40 to 125 degC, 6-Pin SOT23, RoHS, Tape and Reel
D3	LED	LED2	LED_0603	Typical RED, GREEN, YELLOW, AMBER GaAs LED
FB1	BLM18PG121SN1D	CMP-0686-00557-7	FP-BLM18-0_15-t0_8-IPC_A	Chip Ferrite Bead, 0603, 120Ω @ 100MHz, 0.05Ω, 25%, 2A
J1	USB B micro	USB micro B	USB Micro B	
J2	3 pin header	Header_3	Header_3	
L3, L4, L5	0402	Inductor	IND_0402	Inductor
LS?	Buzzer	Buzzer	Buzzer	Magnetic Transducer Buzzer
P1	Solar	Header 2H	HDR1X2H	Header, 2-Pin, Right Angle
P3		CMP-2000-05153-1	HRS-U.FL-R-SMT-3_V	Ultra Small Coaxial Connector, 6 GHz, -40 to 90 degC, 3-Pin SMD, RoHS, Bulk
P?	Header 3X2	Header 3X2	HDR2X3	Header, 3-Pin, Dual row
Q?	NPN	NPN	SOT23_L	NPN Bipolar Transistor
R1, R2, R3, R6, R7, R8, R9, R?		Res2	RES_0603	Resistor, Determines charging speed => p14. Datasheet 40kohm => 200mA max, solar only has 100mA
R4		Res2	RES_0402	Resistor
R5	0402	Res2	RES_0402	Resistor
S?		Tactile Switch	TactileSwitch6x6	gekruisde schakelaar (1.4 en 2.3)
SB3		Solder bridge	Solder bridge	

U2	STM32F301C8T6TR	CMP-0537-00001-2	STM-LQFP48_M	ARM Cortex-M4 32-bit MCU, 64 KB Flash, 16 KB Internal RAM, 37 I/Os, 48-Pin LQFP, -40 to 85 degC, Tape and Reel
U3	nRF24L01P	nRF24L01P	QFN20 4x4	Single Chip Transceiver, 2.4 GHz, 60 mW, 1.9 to 3.6 V, -40 to 85 degC, 20-Pin QFN, RoHS, Tray
VR1	AP2202K	AP2202K-3.3TRG1	SOT23-5	AP2112K-3.3TRG1   3.3V LDO   2.5V — 13.2V
VR2	XC6804A3E1QR-G	XC6804A3E1QR-G	SOP127P600-8N	
XTAL2	32Mhz	Crystal	16Mhz_Crystal	Crystal, 16 MHz, SMD, 3.2mm x 2.5mm, 30 ppm, 18 pF, 30 ppm, 7M
XTAL3	16Mhz	Crystal	16Mhz_Crystal	Crystal, 16 MHz, SMD, 3.2mm x 2.5mm, 30 ppm, 18 pF, 30 ppm, 7M