

Tabelle1

Name	Value	Case	Article number	Distributor	Price	Notes
C1	68µF	8.3X8.3_ELKO	EEHZA 68U 50	Reichelt	1,20 €	Alternative: 581-APD0811680M050R (Mouser), 710-870235674004 (Mouser)
C2	100nF	0805	KEM X7R0805 100N	Reichelt	0,07 €	
C3	470pF	0805	KEM C0G0805 470P	Reichelt	0,03 €	
C4	220nF	0805	KEM X7R0805 220N	Reichelt	0,03 €	
C5	100nF	0805	KEM X7R0805 100N	Reichelt	0,07 €	
C6	10µF	2412_ELKO	TPS 6032 10/25	Reichelt	0,50 €	Alternative: 581-TPSC106K025R0300 (Mouser), 74-TR3C106K025C0300 (Mouser)
C7	12pF	0805	80-C0805C120J5GAC	Mouser	0,12 €	Value depends on R6 / R7, see application note
C8	100nF	0805	KEM X7R0805 100N	Reichelt	0,07 €	
D1	MBRS340	SMC	MBRS 340 SMD	Reichelt	0,26 €	Alternative: MBRS 340T3G ONS / SS 34 / MBRA 340T3G ONS (SMA case, lower VF & IR) (Reichelt)
D2	MBRS340	SMC	MBRS 340 SMD	Reichelt	0,26 €	Alternative: MBRS 340T3G ONS / SS 34 / MBRA 340T3G ONS (SMA case, lower VF & IR) (Reichelt)
D3	LED grün	0805	KBT KP-2012MGC	Reichelt	0,24 €	
D4	LED rot	0805	KBT KP-2012SRC	Reichelt	0,18 €	
D5	BAT54	SOT23/3	BAT 54 NXP	Reichelt	0,07 €	See notes for R2 (NTC)
F1	1,1A	1812	PTC FSMD11024R	Reichelt	0,23 €	Alternative: PTC FSMD15024R (1,5A/24V) / PTC FSMD26016R (2,6A/16V) (Reichelt)
IC1	CN3722	TSSOP16	C77905	LCSC	1,15 €	
K1	SOLAR	KLEMME2	AKL 101-02	Reichelt	0,25 €	
K2	BAT	B2B-XH-A	JST XH2P ST	Reichelt	0,15 €	
K3	OUT	KLEMME2	AKL 101-02	Reichelt	0,25 €	
K4	NTC	B2B-PH-K-S	JST PH2P ST	Reichelt	0,21 €	See notes for R2 (NTC)
L1	33µH	12X12_L	851-CDRH125NP-330MC	Mouser	1,82 €	Alternative: 851-CDRH127LDNP330MC (3,9A/53mΩ) / 994-MSS1260-333MLD (2,7A/57mΩ) (Mouser)
R1	2,7K	0805	SMD-0805 2,70K	Reichelt	0,03 €	
R2	NTC	0603	81-NCP18XH103F03RB	Mouser	0,27 €	If internal NTC used R12 = 0R, D5 & K4 not populated, 10k for no NTC, for external leave R2 open
R3	3,9K	0805	SMD-0805 3,90K	Reichelt	0,03 €	
R4	120R	0805	SMD-0805 120	Reichelt	0,03 €	
R5	2,7K	0805	SMD-0805 2,70K	Reichelt	0,03 €	
R6	48,7K	0805	667-ERJ-6ENF4872V	Mouser	0,13 €	Should be 1% type or better, maybe recalculate for needed battery voltage
R7	36K	0805	667-ERJ-6ENF3602V	Mouser	0,12 €	Should be 1% type or better, maybe recalculate for needed battery voltage
R8	100K	0805	SMD-0805 100K	Reichelt	0,03 €	
R9	1M	0805	SMD-0805 1,00M	Reichelt	0,03 €	
R10	200m	2512_R	71-RCWE2512R200FKEA	Mouser	0,79 €	Alternative: 71-RCWE2512R100FKEA (100mΩ for 2A charge current)
R11	10K	VISHAY_64W	64W-10K	Reichelt	0,35 €	
R12	200R	0805	SMD-0805 220	Reichelt	0,03 €	See notes for R2 (NTC). Application note suggests 200R, but 220R should still be okay
T1	SI4435DY	SO8	SI4435DDY-GE3	Reichelt	0,88 €	
PCB	-	-	-	Aisler	3,40 €	
Total:					13,31 €	