







## **Bill of Materials**

Project: Electric\_Kart\_Batt\_Under\_Volt\_Det.PrjPcb
Variant: None

 Creation Date:
 01-03-2016
 11:50:51

 Print Date:
 01-03-2016
 01-03-2016 11:50

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	Comment		Designator			Supplier Part Number 1			Supplier 3	Supplier Part Number 3	Supplier 4	Supplier Part Number 4	Quantity
330 1	1%	Resistor, SMD, 0603, 0.063W	R4, R5, R6	0603R	RS-Components		Farnell		Digi-Key		Mouser		
95.3K 1	1%	Resistor, SMD,	R1, R2	0603R	RS-Components		Famell	1170985	Digi-Key		Mouser		
	1011	0603, 0.063W		0805C		106-846				400 4700 4 ND			
10uF 1	10V	Capacitor, SMD, 0805, X5R	C8, C9	U8U5C	RS-Components	106-846	Farnell		Digi-Key	490-1709-1-ND	Mouser		1
10uF E	EEE2AA100UP	Elektrolyt, 10uF,	C6	ELYT SIZE E	RS-Components	07-8004	Famell	2326184	Digi-Key	PCE3966CT-ND	Mouser		
10K 1	1%	100V Resistor, SMD,	R3, R7, R8	0603R	RS-Components		Famell		Digi-Key		Mouser		
		0603, 0.063W								445-4497-1-ND			
2.2uF 1	100V	Capacitor, SMD, 1210, X7R	C7	1210C_H	RS-Components	698-3765	Farnell		Digi-Key	445-4497-1-ND	Mouser		1
1uF 1	10V	Capacitor, SMD,	C5	0603C	RS-Components		Famell		Digi-Key		Mouser		
0.1uF 2	25V	0603, X5R Capacitor, SMD,	C1. C2. C3. C4	0603C	RS-Components		Famell		Digi-Key		Mouser		<del>                                     </del>
		0603, X7R											
	50V	Capacitor, SMD, 0603, X7R	C10		RS-Components		Farnell		Digi-Key		Mouser		
1	1554C2GY	120 mm, 65 mm,	N1	1554C2GY	RS-Components		Famell	4080804	Digi-Key	1554C2GY-ND	Mouser		
		40 mm, PC (Polycarbonate),									l l		l
<u> </u>	59-111	IP66, Grey Pushbutton	PUSHB1		DO 0			519315	Dec. No.				
	59-111	Switch, SPST-	PUSHB1		RS-Components		Farnell	519315	Digi-Key		Mouser		1
		NO, On-(On), 50 V, 50 V, 400 mA,									l l		l
		Solder									l l		l
	6-Pin Molex KK Vertical	6-Pin, 2,54 mm Molex KK serie.	P3	Molex HDR1x6	RS-Components	483-8506	Farnell		Digi-Key		Mouser		
		Vertical									l l		l
		8-Pin, 2,54 mm	P2	Molex HDR1x8	RS-Components	483-8528	Farnell		Digi-Key		Mouser		
	/ertical	Molex KK serie, Vertical											l
	ATmega328- MMHR	8-bit AVR	U1	28M1_N									
		Microcontroller, 32KB Flash, 1KB		1									l
		EEPROM, 2KB											l
		SRAM, 28-pin VQFN, Industrial											l
		Grade (-40°C to											l
1	AVR_ISP	85°C), Reel AVRISP	P1	HDR2X3 FLAD	RS-Components		Farnell		Digi-Key		Mouser		
l l	-	Programming											l
<del>   </del>	BAT760	connector Schottky Barrier	D4, D5	SOD323	RS-Components	485-486	Farnell	8734593	Digi-Key	BAT760DICT-ND	Mouser		
		Diode											<u> </u>
	Cable Gland, M12	Cable Gland, M12 x 1.5, Nylon 6	CG1	1	RS-Components		Farnell	2308372	Digi-Key		Mouser		1
l ľ		(Polyamide 6),		1									l
<del>                                     </del>	DX1093/GN	Grey LED Panel Mount	LED1	-	RS-Components		Farnell	178172	Digi-Key	708-1890-ND	Mouser		
		Indicator,							J,				l
		Aluminium Bezel, Green, 8 mm, 2											l
		VDC, 25 mA, 20		1									l
	DX1093/RD	mcd, IP66 LED Panel Mount	LED3	-	RS-Components		Farnell	178171	Digi-Key	DX1093/RD-ND	Mouser		<del>                                     </del>
		Indicator,											1
		Aluminium Bezel, Red. 8 mm. 2											1
		VDC, 25 mA, 25											l
	DX1093/YL	mcd, IP66 LED Panel Mount	LED2		RS-Components		Farnell	178173	Digi-Key	DX1093/YL-ND	Mouser		
		Indicator,							J,				l
		Aluminium Bezel, vellow 8 mm. 2											l
		VDC, 30 mA, 20											l
$\vdash$	ES1B-E3	mcd, IP66 100V. 1A. Surface	D6	DO-214AC	RS-Components	629-2334	Farnell	1204902	Digi-Key		Mouser		<b></b>
		Mount Ultrafast		DO-214A0	no components	020 2004	. unitali	1201002	oig. Ney				l
		Plastic Rectifier											l
	G6B-2214P-US	G6B Series,	K1, K2	G6B-2214C-	RS-Components		Farnell	9949224	Digi-Key	Z947-ND	Mouser		
5	5DC	Power, Non Latching, DPST-		US									l
		NO, 5 VDC, 5 A											<u> </u>
L	LP2985AIM5- 3.3/NOPB	Micropower 150 mA Low-Noise	U4	sot23-5									
	J.J.IVUPD	Ultra Low-Dropout											l
l		Regulator, 5-pin SOT-23, Pb-Free											l
	OPA171AIDBVT	36V, Low Power,	U2	SOT23-5	RS-Components	730-0590	Famell	1862580	Digi-Key		Mouser		
		RRO, General Purpose											l
		Operational		1									l
		Amplifier in		1									l
F	PDTD113ZT	MicroPackages NPN 500 mA, 50	Q1, Q2	sot23	RS-Components	508-541	Famell		Digi-Key		Mouser		
l l		V resistor-		1									l
		equipped transistor 1K 10K		1									l
F		Non Isolated POL	U3	R-78HBX.X-	RS-Components	672-7095	Farnell	2440305	Digi-Key	945-1614-5-ND	Mouser		
		DC/DC Converter, Switching, SIP,		0.5L									l
													l
		Through Hole, 1, 2.5 W, 5 V, 500											