







## **Bill of Materials**

Project: ToyRaceCar\_V2.PrjPcb
Variant: None

 Creation Date:
 1/25/2012
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 Drawn By:
 Caalb

Address: Mærsk Inst - SDU ROBOLAB J28B Niels Bohrs Allé 1

5230 Odense M Denmark



Value	Comment	Description	Designator	Footprint	PN Digikey	PN Farnell	PN RS	Lager	Quantity
_	600R@100Mhz		L1	0805L_H		1515663	724-1545	No	1
hz		90mOhm,							
100uF	16V	330R@100Mhz Tantal, SMD,	C10, C12	TANTAL SIZE			684-4477	No	2
TOOUF	100	CaseD	010, 012	D			004-4477	INO	
33	1%	Resistor, SMD, 0805, 0.1W	R3	0805R_H				Yes	1
16Mhz	Crystal	Standard 2-pin Crystal	X1	Crystal SMD			478-9505	No	1
12pF	50V		C3, C6	0805C_H			211-3120	No	2
10uF	16V	Tantal, SMD, CaseB	C1, C7	Tantal size B				Yes	2
10K	1%	Resistor, SMD, 0805, 0.1W	R1, R4	0805R_H				Yes	2
1K	1%	Resistor, SMD, 0805, 0.1W	R2, R5, R6, R7, R8	0805R_H				Yes	5
0.1uF	50V	Capacitor, SMD, 0805, X7R	C2, C4, C5, C8, C9, C11, C13	0805C_H				Yes	7
	1x10 Header	Header Male 1x10	J2, J3, <del>J4</del>	HDR1X10_CE S				No	3
	1x4 Header	Header Male 1x4	J5	HDR1X4_CES				No	1
		Header Male 1x6	J1	HDR1X6_CES	ļ			No	1
		2-Pin, 1.5 mm, Horisontal, Pico- SPOX serie	P2, P3	Molex Pico- Spox Horisontal			670-6492	No	2
	ATMEGA32A- AU	8-Bit AVR Microcontroller with 32K Bytes of In-System Programmable Flash Memory	U2	TQFP44	ATMEGA32A- AU-ND		696-3477	No	1
	B220A		D1, D2	DO-214AC	B220A-FDICT- ND	1858604	700-9956	No	2
	DBLS203G	Surface Mount Bridge Rectifier,	DB1	DBLS20X		1299298	652-6356	No	1
	Green	2A, 200V LED,SMD,Green	D3	LED0805G H				Yes	1
	IRLML0030TRP BF	HEXFET Power MOSFET, 30V, 5.3A	Q1	SOT23	IRLML0030TR PBFCT-ND	1791366		No	1
	ISPAVRU1	ISPAVRU1 conncetor	P1	HDR2X5 FLAD				Yes	1
	LM1117IMP-5.0	800mA Low- Dropout Linear Regulator	U3	SOT-223			535-8641	No	1
			U4	SOT23-5		1053672	652-0033	No	1
	MCP809T- 315I/TT		U5	sot23		1084257		No	1
	Red	LED,SMD,Red	D4	LED0805R_H				Yes	1
	RN42	Class 2 Bluetooth® Module	U1	RN42				No	1
		IVIOUUIE			1			Total:	42
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