

A

B

C

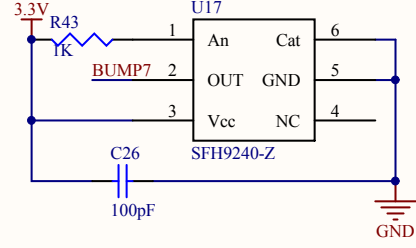
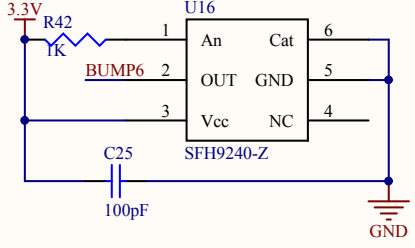
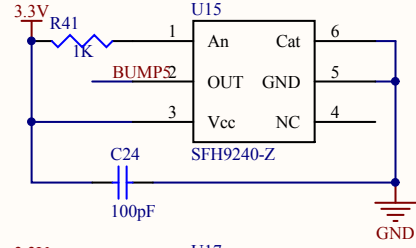
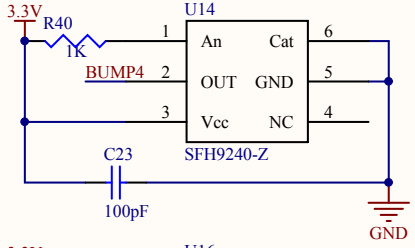
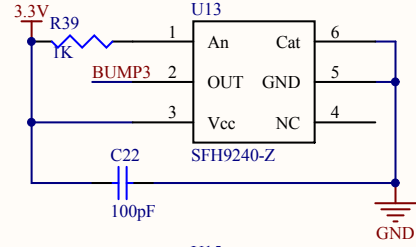
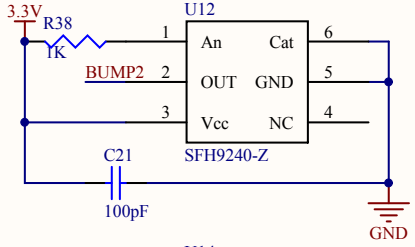
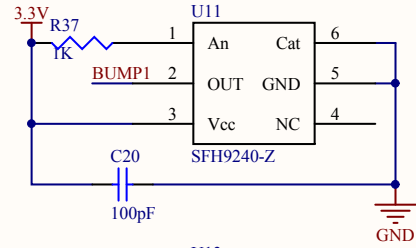
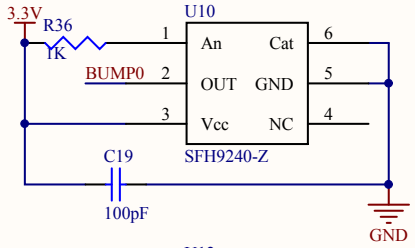
D

A

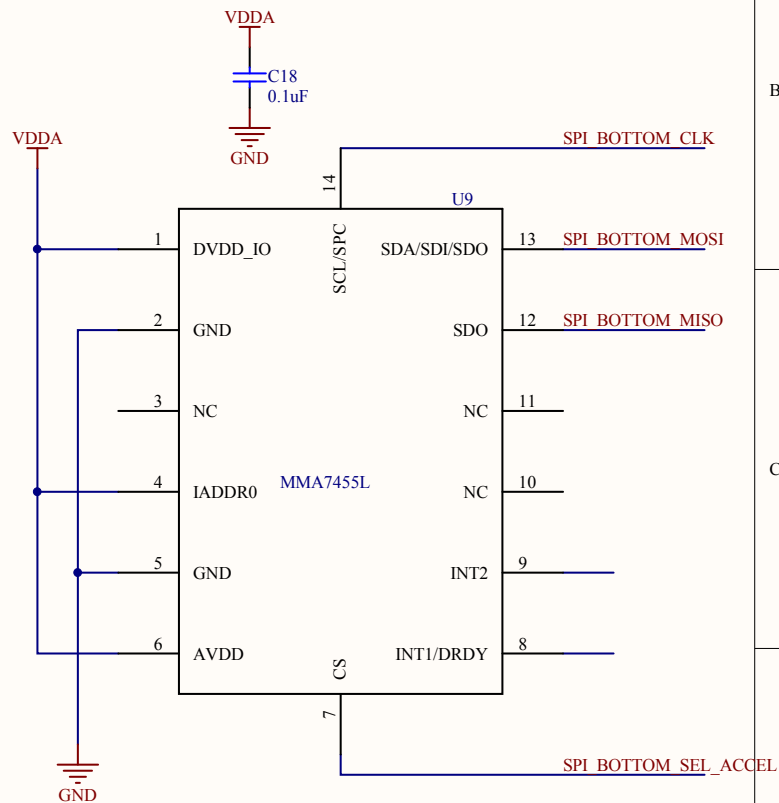
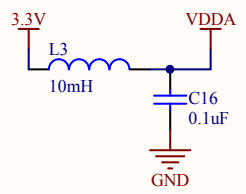
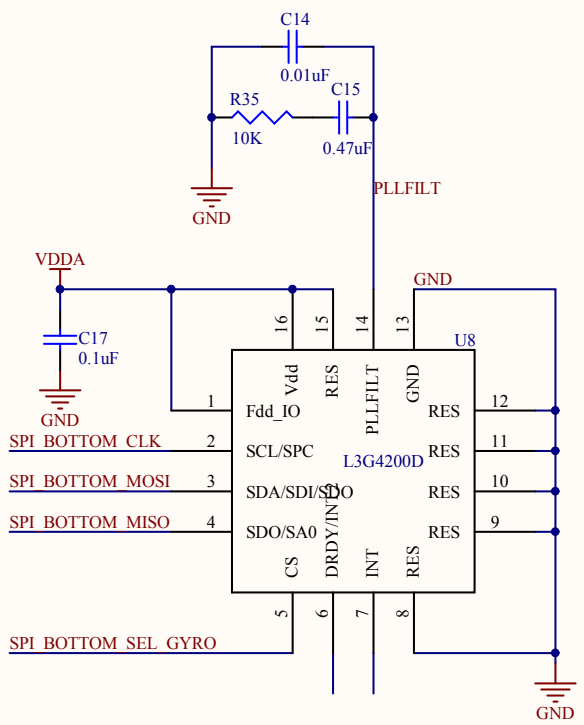
B

C

D



Title			
Size	Number		Revision
A			
Date:	6/22/2011		Sheet of
File:	C:\Users\...\BumpSensors.SchDoc		Drawn By:



Title			
Size	Number		Revision
A			
Date:	6/22/2011		Sheet of
File:	C:\Users\...\GyroAccelHeaders.SchDoc		Drawn By:

A

B

C

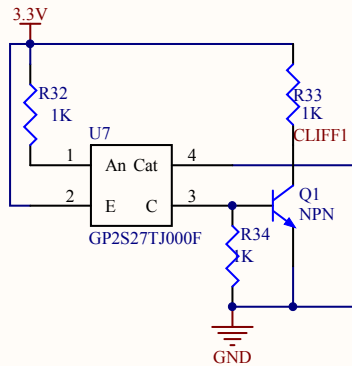
D

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4



A

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1

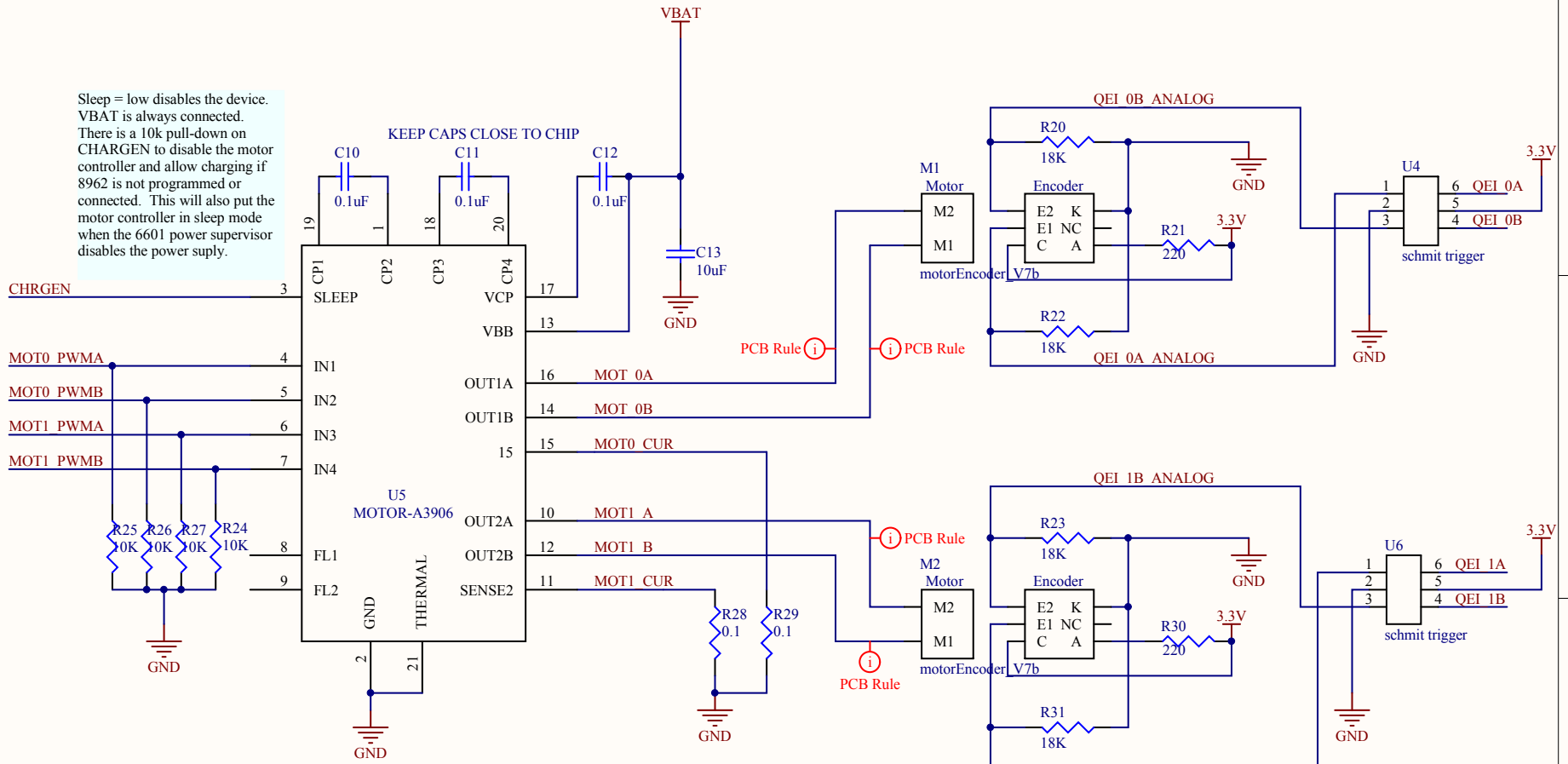
2

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4

Title			
Size	Number		Revision
A			
Date:	6/22/2011		Sheet of
File:	C:\Users\...\LineCliffSensors.SchDoc		Drawn By:

Sleep = low disables the device.
VBAT is always connected.
There is a 10k pull-down on
CHARGEN to disable the motor
controller and allow charging if
8962 is not programmed or
connected. This will also put the
motor controller in sleep mode
when the 6601 power supervisor
disables the power supply.



Caster1

Title		
Size	Number	Revision
A		
Date:	6/22/2011	Sheet of
File:	C:\Users\...\motorEncoder.SchDoc	Drawn By:

A

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C

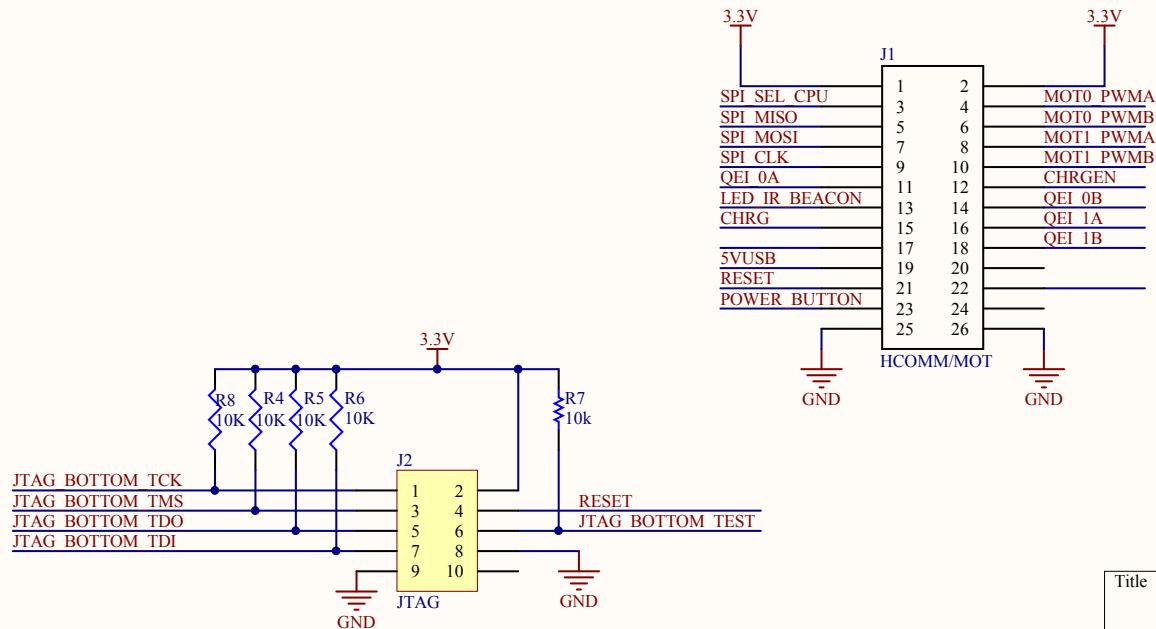
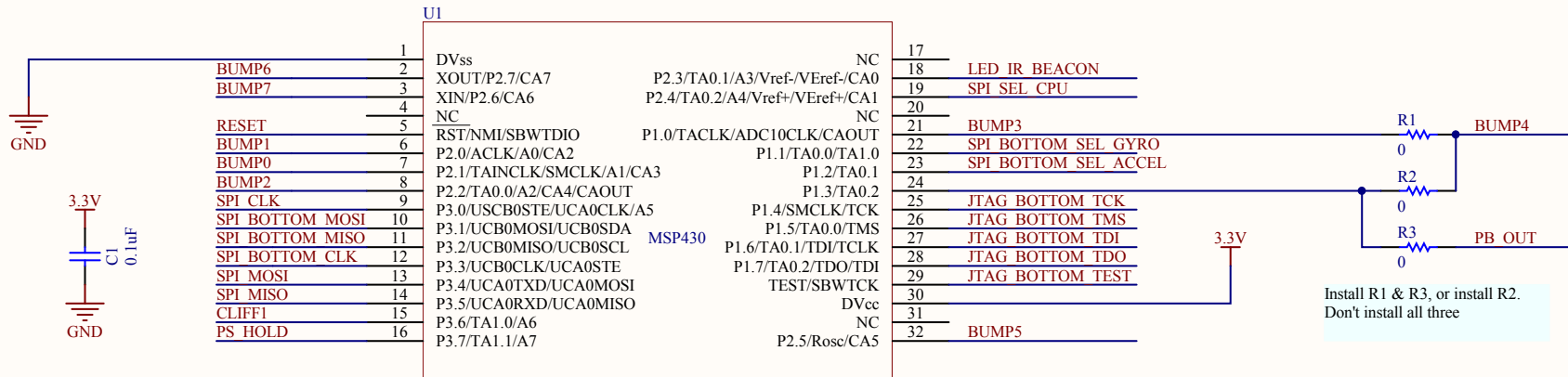
D

A

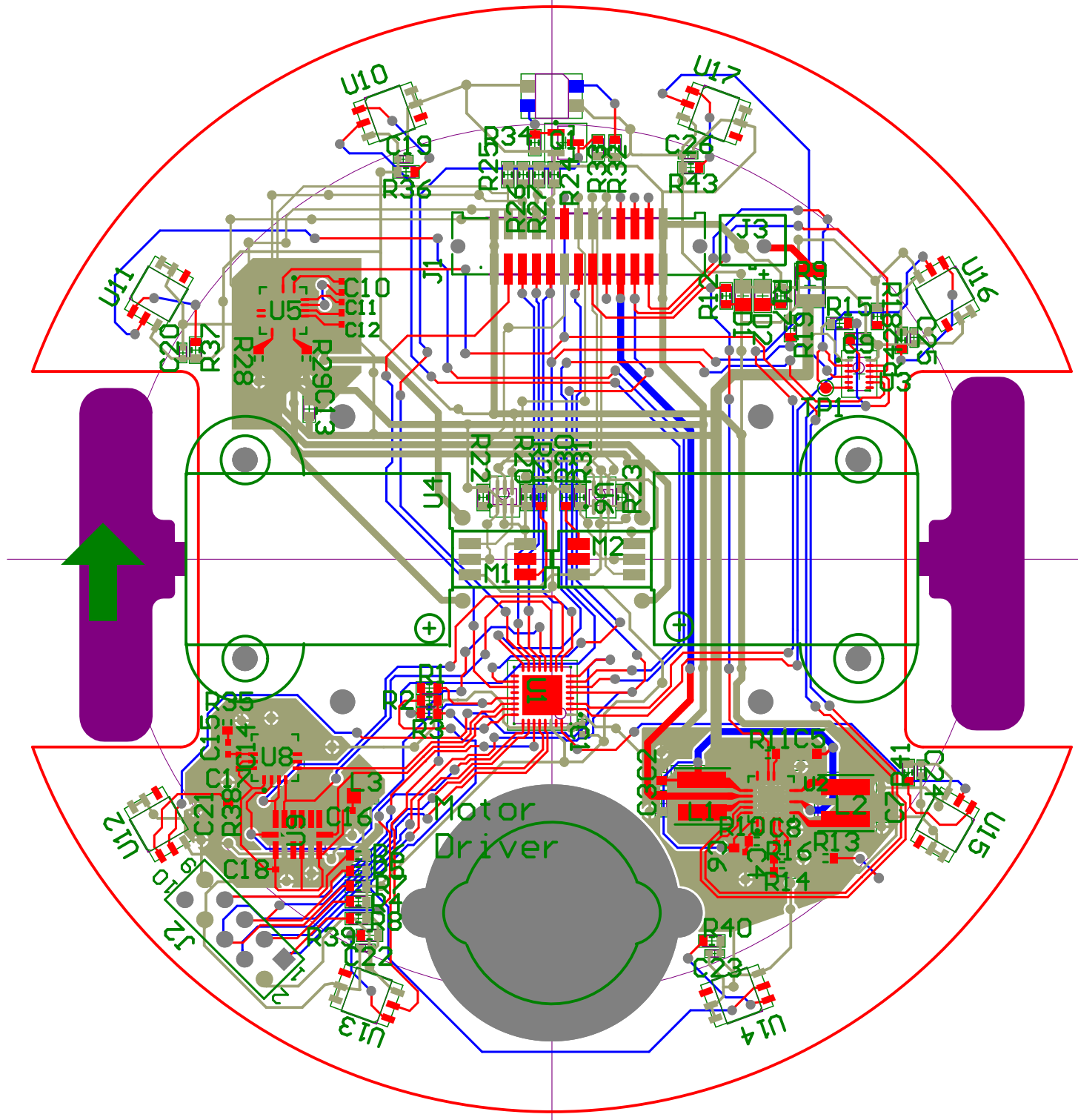
B

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Title		
Size	Number	Revision
A		
Date:	6/22/2011	Sheet of
File:	C:\Users\...\MSP430.SchDoc	Drawn By:



Bill of Materials

<Parameter Title not found>

Source Data From: roneMotorBoard-v8.PrjPcb
 Project: roneMotorBoard-v8.PrjPcb
 Variant: None

Creation Date: 6/22/2011 1:11:40 PM
 Print Date: 40716 40716.54983

Footprint	Comment	LibRef	Designator	Description	Quantity
CAPC1005L	Cap Semi	Cap Semi	C1, C10, C11, C12, C14, C15, C16, C17, C18, C19, C20, C21, C22, C23, C24, C25, C26	Capacitor (Semiconductor SIM Model)	17
CAPC1608L	Cap	Cap	C2, C3, C5, C6, C7, C9	Capacitor	6
CAPC1005L	Cap	Cap	C4, C8	Capacitor	2
CAPC1608L	Cap Semi	Cap Semi	C13	Capacitor (Semiconductor SIM Model)	1
3/4"CASTER 2	non connect	Caster 3/4in	Caster1	This is just a space saver to get the caster onto the pcb	1
INDC2012L	Charge	LED2	D1	Typical RED, GREEN, YELLOW, AMBER GaAs LED	1
INDC2012L	Power	LED2	D2	Typical RED, GREEN, YELLOW, AMBER GaAs LED	1
HeaderSM 13x2	HCOMM/MOT	HCOMM/HMOT	J1	Header, 2X20, 50mil, IDC	1
HDR2X5	JTAG	Header 5X2	J2	Header, 5-Pin, Dual row	1
BatteryConnJ ST	Bat	BatteryConnJST	J3		1
IndPow	3.3uH	Inductor	L1		1
IndPow	2.2uH	Inductor	L2		1
INDC2012L	Inductor	Inductor	L3	Inductor	1
motorEncode r_V7b	motorEncoder_V7b	motorEncoder_V7b	M1, M2		2
SOT-23	NPN	NPN	Q1		1
RESC1608L	Res Semi	Res Semi	R1, R2, R3, R7	Semiconductor Resistor	4
RESC1608L	Res3	Res3	R4, R5, R6, R8, R10, R11, R12, R13, R14, R15, R16, R17, R18, R19, R24, R25, R26, R27, R28, R29, R32, R33, R34, R35, R36, R37, R38, R39, R40, R41, R42, R43	Resistor	32
RESC3225L	Res3	Res3	R9	Resistor	1
RESC1608L	Res3	Res3	R20, R21, R22, R23, R30, R31	Resistor	6
TestPoint	TestPoint	TestPoint	TP1		1
MSP430_32 PIN	MSP430	MSP430_32pin	U1		1
QFN-24	LTC3566	LTC3566	U2		1
TDFN12	STM6601	STM6601	U3		1
DCK(R- PDSO-C6)	schmit trigger	schmit trigger	U4, U6		2
QFN-20	MOTOR-A3906	MOTOR-A3906	U5		1
GP2S27J000 OF	GP2S27TJ000F	GP2S27TJ000F	U7		1
L3G2004D	L3G4200D	L3G4200D	U8	3axis gyroscope, SPI	1
MMA7455L	MMA7455L	MMA7455L	U9	3axis accelerometer	1
SFH9240-Z	SFH9240-Z	SFH9240-Z	U10, U11, U12, U13, U14, U15, U16, U17		8
					99

Approved	Notes