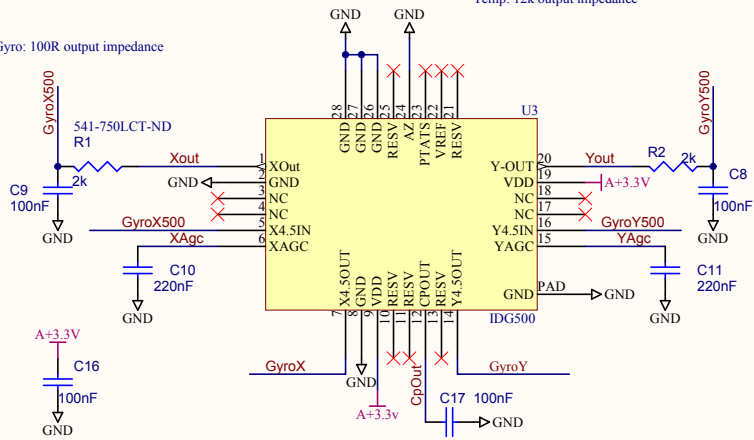


Gyroscopes PQ

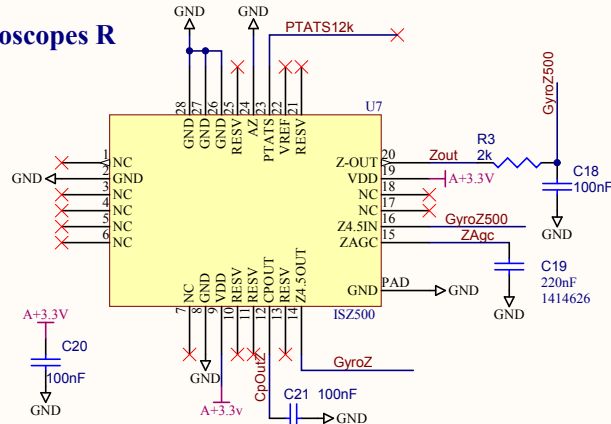
ca 2.7 - 3.3V 7 +/- 2mA

Temp: 12k output impedance

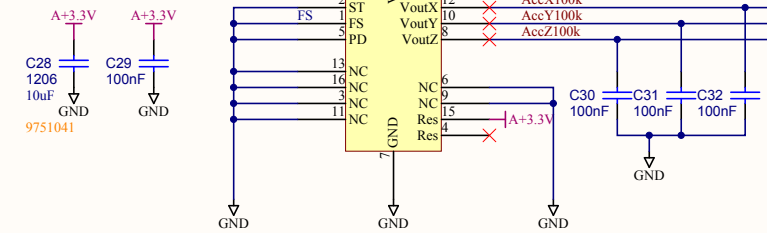
Gyro: 100R output impedance



Gyroscopes R

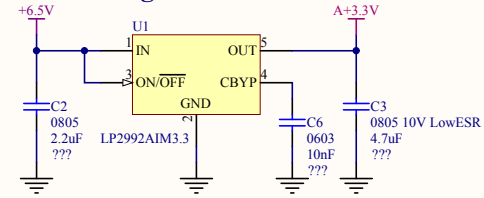


Accelerometers XYZ

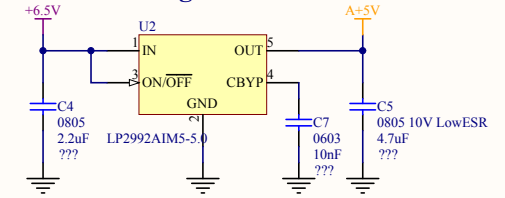


LIS344AL	LIS344ALH
1 Hz 5uF	1 Hz 1500 nF
10 Hz 0.5 uF	10 Hz 150 nF
20 Hz 250 nF	20 Hz 68 nF
50 Hz 100 nF	50 Hz 30 nF
100 Hz 50 nF	100 Hz 15 nF
200 Hz 25 nF	200 Hz 6.8 nF
500 Hz 10 nF	500 Hz 3 nF

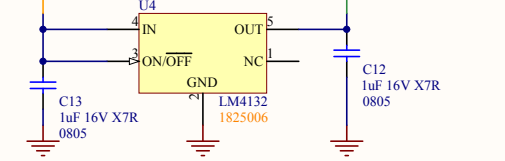
Analog +3.3V



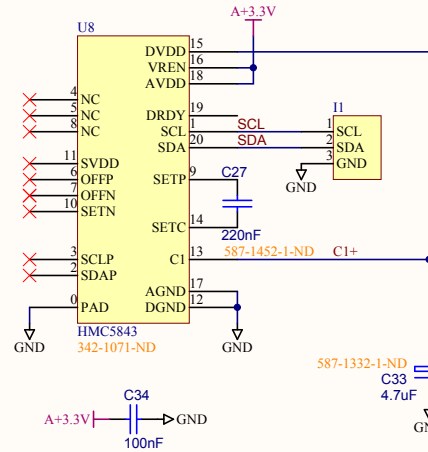
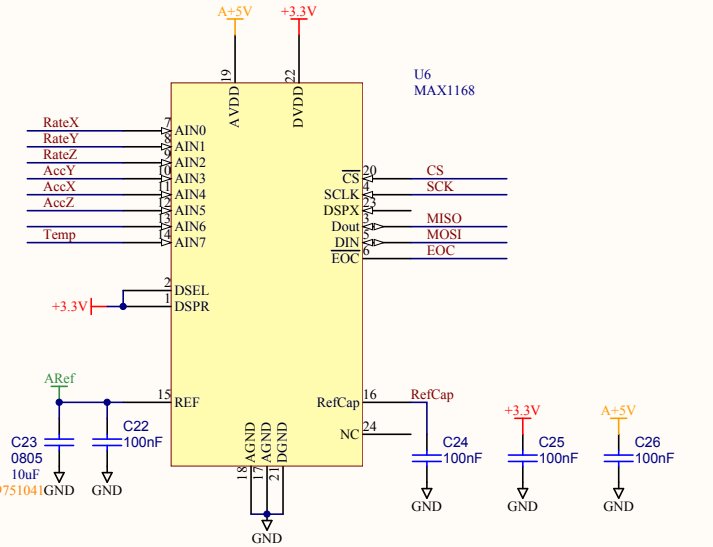
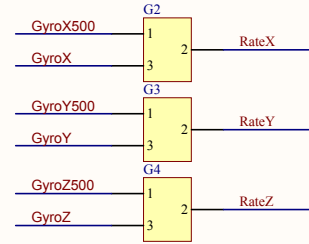
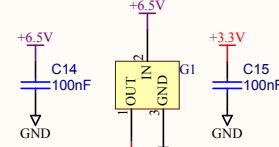
Analog ADC



POWER



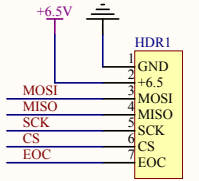
+3.3V



Dynamic Range: -4 to 4 Gauss
Resolution: 7 milliGauss

10000 Gauss = 1 Tesla

Required: 10 nano Tesla
Required: 0.1 milliGauss



Title		
Size	Number	Revision
A3		
Date:	9/9/2010	Sheet of
File:	C:\Documents and Settings\imu.SchDoc	Drawn By:

Quantity	value	Footprint	Comment	Description	Designator	Farnell	Supplier Part Number
					C1, C8, C9, C14, C15, C16, C17, C18, C20, C21, C22, C24, C25, C26, C29, C30, C31, C32		
18	100nF	0603	100nF				
2	2.2uF	0805	0805	Capacitor	C2, C4	???	
2	4.7uF	0805	0805 10V LowESR	Capacitor	C3, C5	???	
2	10nF	0603	0603	Capacitor	C6, C7	???	
3	220nF	0603	220nF		C10, C11, C19	1414626	
2	1uF 16V X7R	0805	0805	Capacitor	C12, C13	9527710	
1	10uF	0805	0805		C23	9751041	
2		0603	100nF, 220nF		C27, C34		587-1452-1-ND
1	10uF	1206	1206		C28	9751041	
1		T491A	4.7uF		C33		587-1332-1-ND
1		SOT23A_CDW	Dipswitch	Header, 3-Pin	G1		
1		PICOBLADE_530470710	ADC_SPI	Header, 7-Pin	HDR1		
1		PICOBLADE_530470310	I2C	Header, 3-Pin	I1		
3	750R	0603	2k		R1, R2, R3		541-750LCT-ND
2		MF05A_N	LP2992AIM3.3, LP2992AIM5-5.0	Micropower 250 mA Low-Noise Ultra Low-Dropout Regulator in SOT-23 and LLP Packages	U1, U2		
2		QFN4x5	IDG500, ISZ500	INVENSENSE Integrated Dual Axis Gyroscope, INVENSENSE SingleZ Gyroscope	U3, U7		
1	LP2981AIM5-2.5	MF05A_N	LM4132	Micropower 100 mA Ultra Low-Dropout Regulator in SOT-23 and micro SMD Packages	U4	1825006	
1		RU-14	AD8534ARU	Low Cost, 250 mA Output Single-Supply Amplifier	U5		AD8554ARUZ-ND
1		SSOP24	MAX1168	ADC	U6		
1		HMC5843	HMC5843	Honeywell 3 Axis Compass I2C	U8		342-1071-ND
1		ST_Lga16	LIS344AL(H)		U9		