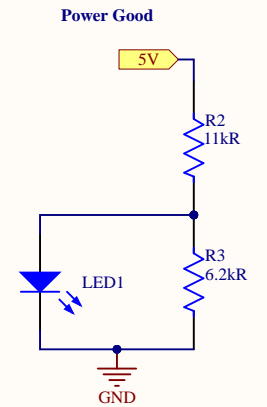
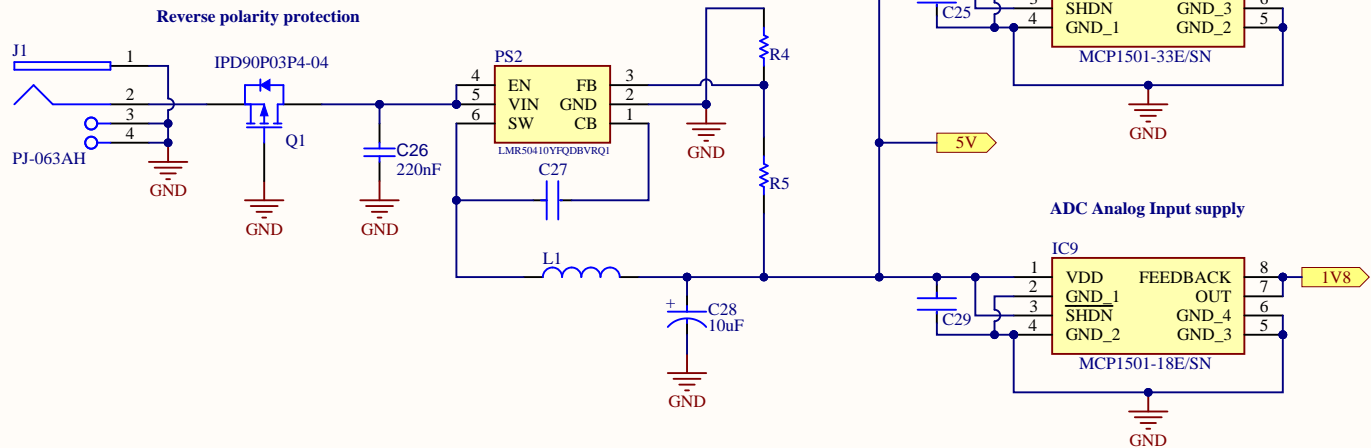


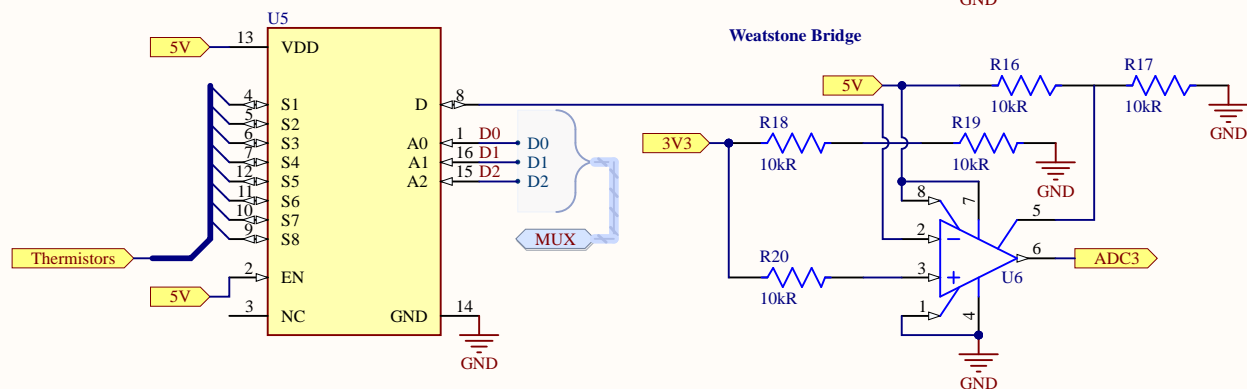
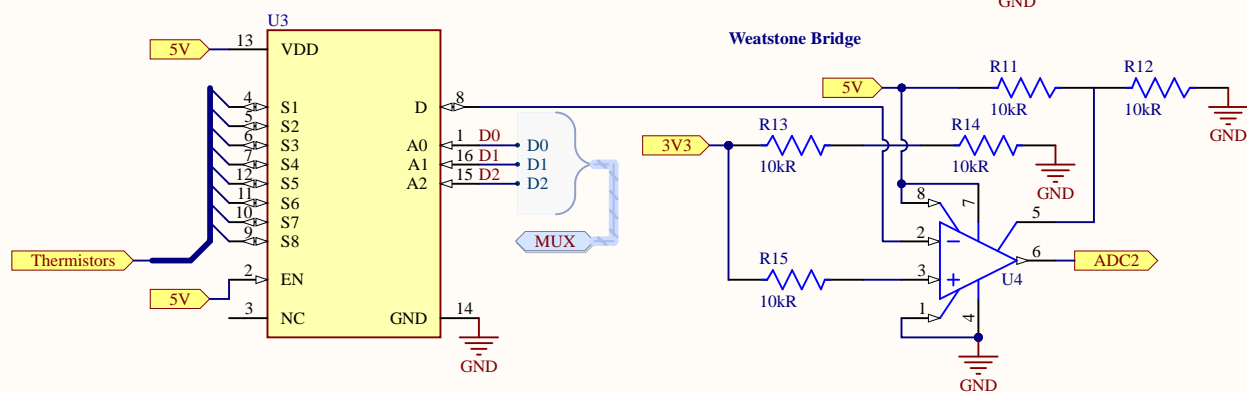
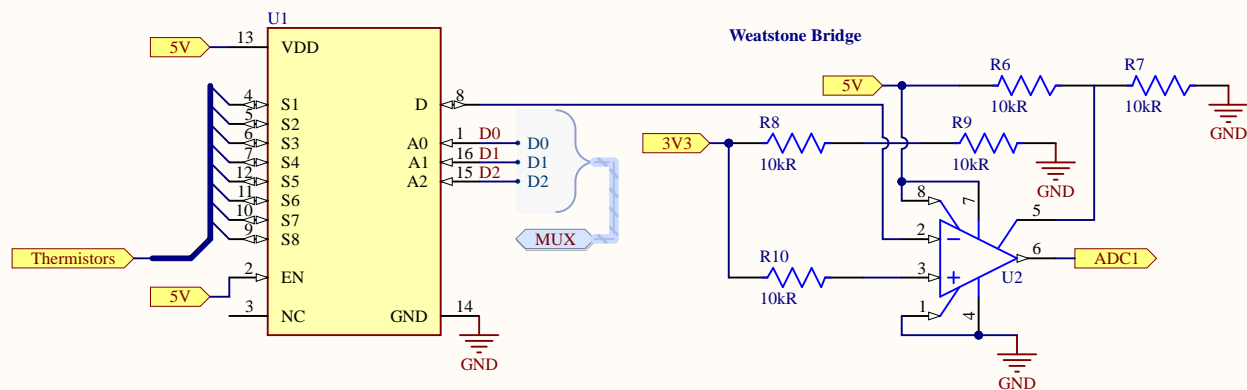
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DRAWN BY Maxime Tousignant-Tremblay		COURSE ID GPH-3110		
ID NUMBER 536 772 369	IDUL MATOT9	TITLE Processing interface		
DATE 2023-02-23	DRAWING NO 1	UNITS mm	REV 1	SHEET 1 OF 5



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DRAWN BY Maxime Tousignant-Tremblay		COURSE ID GPH-3110		
ID NUMBER 536 772 369	IDUL MATOT9	TITLE Power Supply Unit		
DATE 2023-02-23	DRAWING NO 2	UNITS mm	REV 1	SHEET 2 OF 5



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de génie physique et d'optique

DRAWN BY

Maxime Tousignant-Tremblay

ID NUMBER

536 7

DATE	2023-02-23
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COURSE ID

GPH-3110

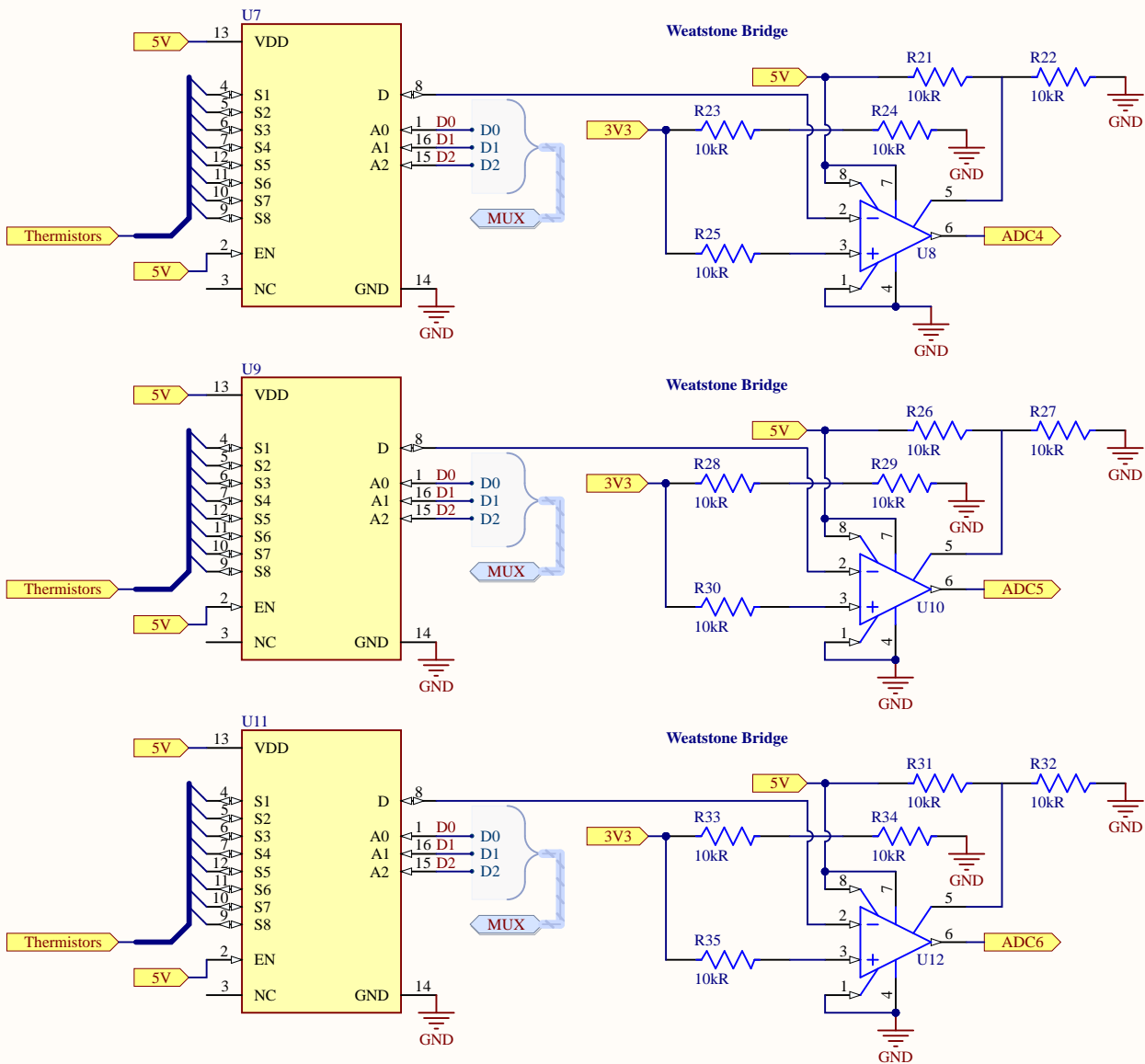
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100

	UNITS
	mm

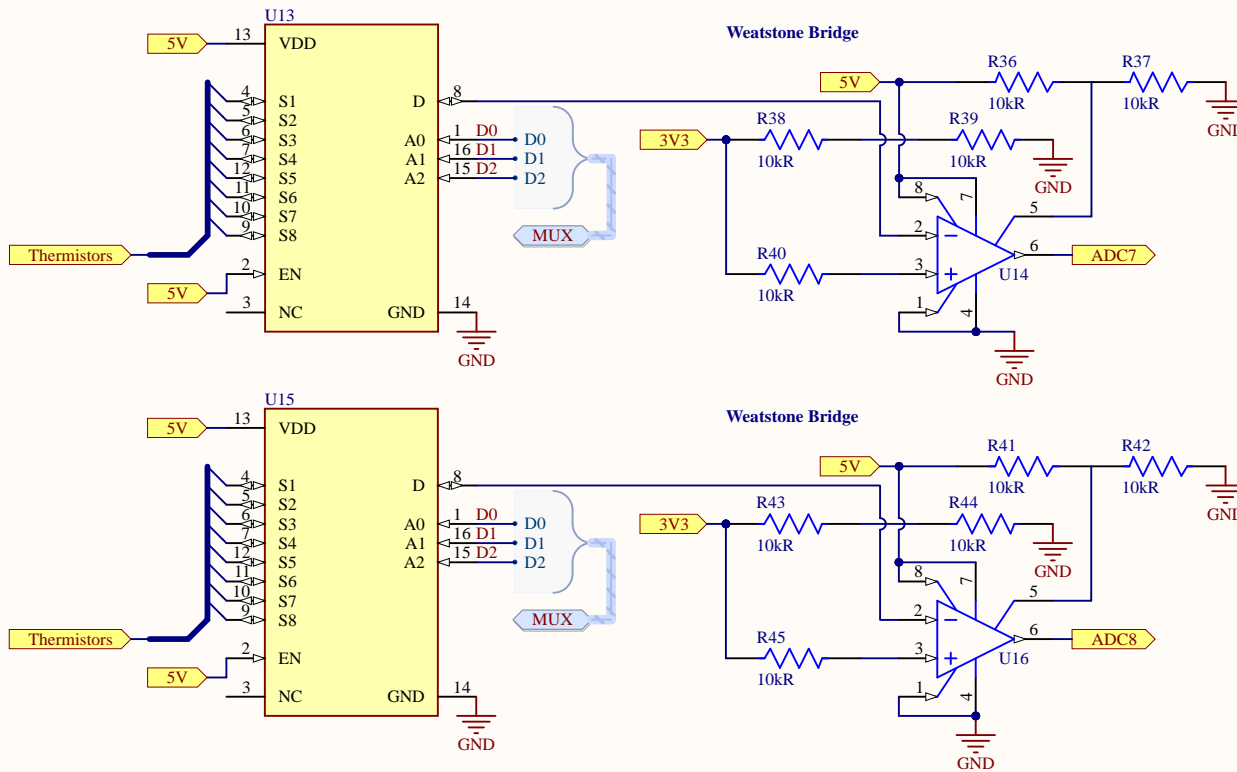
Weatstone bridge

REV		
1	SHEET 3	OF 5



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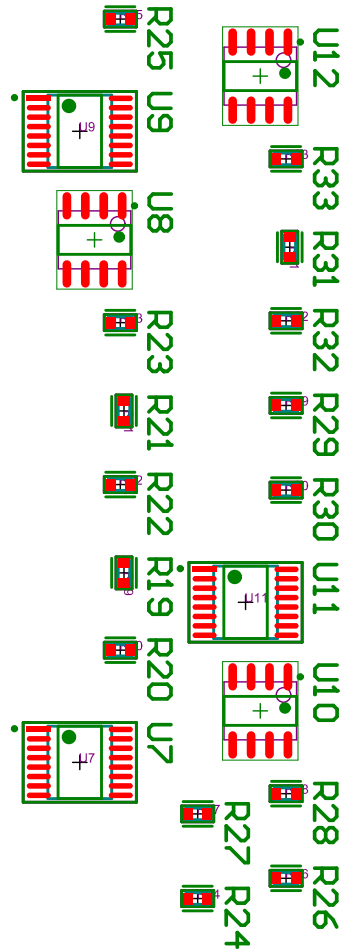
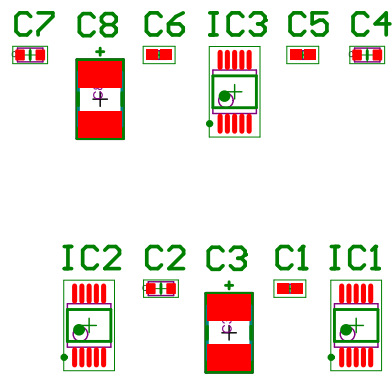
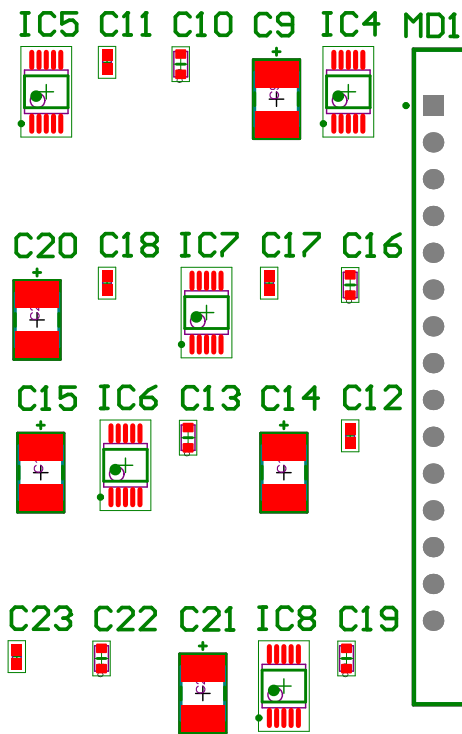
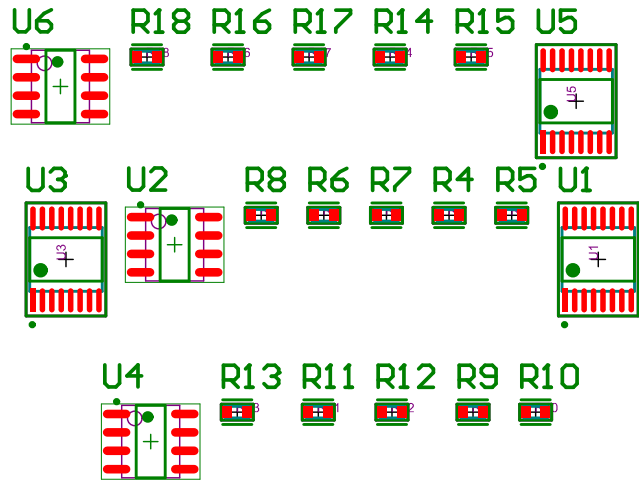
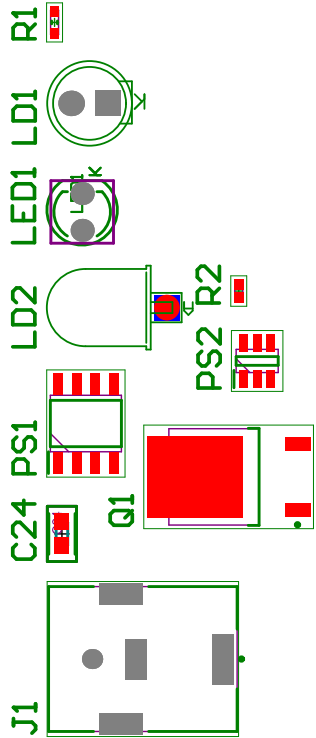
DRAWN BY Maxime Tousignant-Tremblay		COURSE ID GPH-3110		
ID NUMBER 536 772 369	IDUL MATOT9	TITLE Wheatstone bridge part II		
DATE 2023-02-23	DRAWING NO 4	UNITS mm	REV 1	SHEET 4 OF 5



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DRAWN BY Maxime Tousignant-Tremblay		COURSE ID GPH-3110		
ID NUMBER 536 772 369	IDUL MATOT9	TITLE *		
DATE 2023-02-23	DRAWING NO 5	UNITS mm	REV *	SHEET 5 OF 5

LED3 LED2 LED1 J1 C28 L1 IC9 C27 R3 C26 C25



Line #	Name	Description	Designator	Quantity	Manufacturer 1	Manufacturer Part Number 1	Manufacturer Lifecycle 1	Supplier 1	Supplier Part Number 1	Supplier Unit Price 1	Supplier Subtotal 1
	ULaval FSG-DPGPO		*1, *2, *3, *4, *5	5							
	0402YC104K AT2A		C1, C6, C7, C12, C13, C18, C19, C24	8							
	Capacitor 1µF +/-0.1%, 25V, 0603, Thickness 1 mm	Chip Capacitor, 1µF +/-0.1%, 25V, 0603, Thickness 1 mm	C2, C5, C8, C11, C14, C17, C20, C23	8							
	293D106X90 16B2TE3	Cap Tant Solid 10uF 16V B CASE 10% (3.5 X 2.8 X 1.9mm) Inward L SMD 3528-21 2 Ohm 125C T/R	C3, C4, C9, C10, C15, C16, C21, C22, C28	9							
	CL10A225KO 8NNNC	Cap Ceramic 2.2uF 16V X5R ±10% Pad SMD 0603 +85°C T/R	C25, C29	2							
	Capacitor 220nF +/-20%, 10V, 0402, Thickness 0.6 mm	Chip Capacitor, 220nF +/-20%, 10V, 0402, Thickness 0.6 mm	C26	1							
	CC0603KRX7 R9BB104	CAP CER 0.1UF 50V X7R 0603	C27	1							
	MCP33141-10-E/MS	ADC Single SAR 1MSPS 12-bit Serial Microwire/SPI 10-Pin MSOP Tray	IC1, IC2, IC3, IC4, IC5, IC6, IC7, IC8	8							
	MCP1501-18E/SN	Integrated Circuit	IC9	1							
	PJ-063AH	Through Hole Right Angle DC Power Jack, 8 A, 2 mm Center Pin, 2 Position, -25 to 85 degC, RoHS, Bulk	J1	1							
	7447916	SMD-Multilayer Inductor WE-M, L = 4.70 µH	L1	1							
	Power Good	THT LED round mono-color waterclear, THT WL-TMRW ,Green	LED1	1							
	Arduino Nano BLE Sense Rev2	ARDUINO NANO ATMEGA328 EVAL BRD	MD1	1							
	MCP1501-33E/SN	Power Supply	PS1	1							
	LMR50410YF GDBVR01	Power Supply	PS2	1							
	IPD90P03P4-04	Single P-Channel 30V 4.5 mOhm 100 nC OptiMOS Power Mosfet - TO-252-3-11	Q1	1							
	Resistor	Resistor	R1	1							
	CRCW12061 1K0FKEA	RES Thick Film, 11kΩ, 1%, 0.25W, 100ppm/°C, 1206	R2	1							
	CRCW12066 K20FKEA	Res Thick Film 1206 6.2k Ohm 1% 1/4W ±100ppm/°C Molded SMD SMD Paper T/R	R3	1							
	RC0402FR-1322K1L		R4	1							
	RC0402FR-0788K7L		R5	1							
	RT0603BRD0 710KL	Res High precision Thin Film 0603 10K Ohm 0.1% 1/10W ±25ppm/°C Molded SMD Paper T/R	R6, R7, R8, R9, R10, R11, R12, R13, R14, R15, R16, R17, R18, R19, R20, R21, R22, R23, R24, R25, R26, R27, R28, R29, R30, R31, R32, R33, R34, R35, R36, R37, R38, R39, R40, R41, R42, R43, R44, R45	40							
	TMUX1208B WR	5-V, 8: 1, 1-channel general-purpose analog multiplexer with 1.8-V input logic 16-TSSOP -40 to 125	U1, U3, U5, U7, U9, U11, U13, U15	8							
	MCP6N11-100E/SN	MCP6N11 Series Single Channel 500 KHz 5.5 V Instrumentation Amplifier - SOIC-8	U2, U4, U6, U8, U10, U12, U14, U16	8							