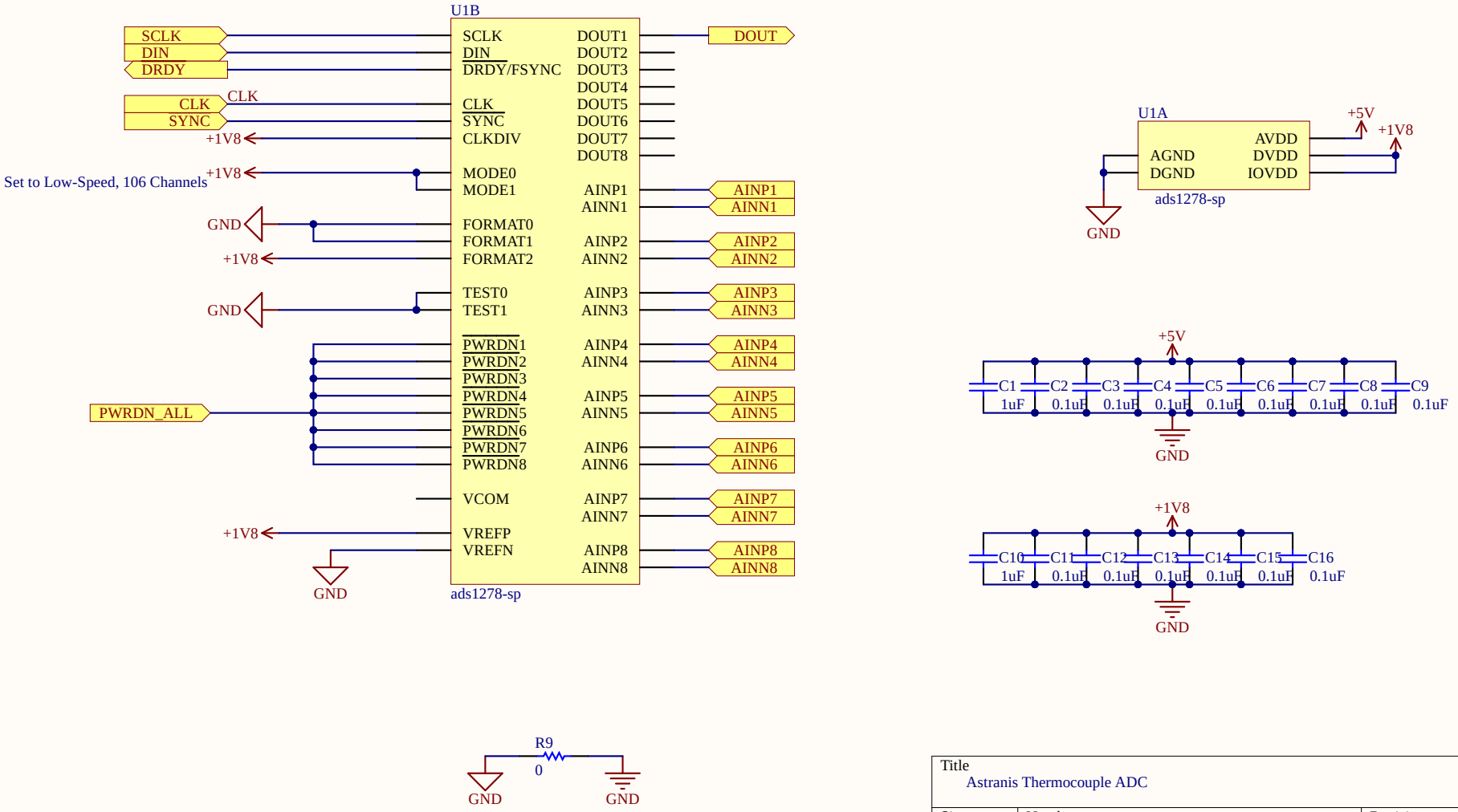
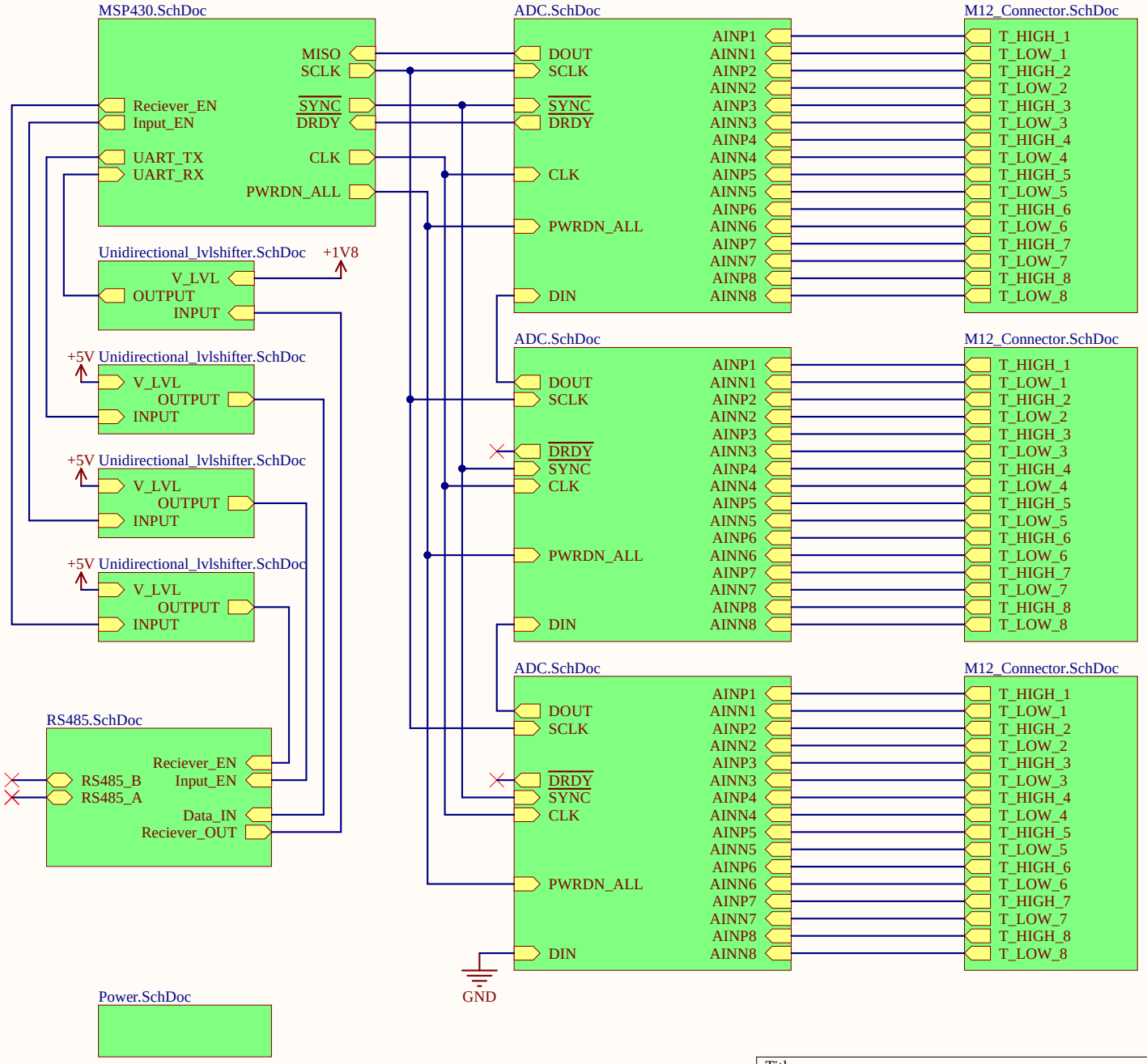
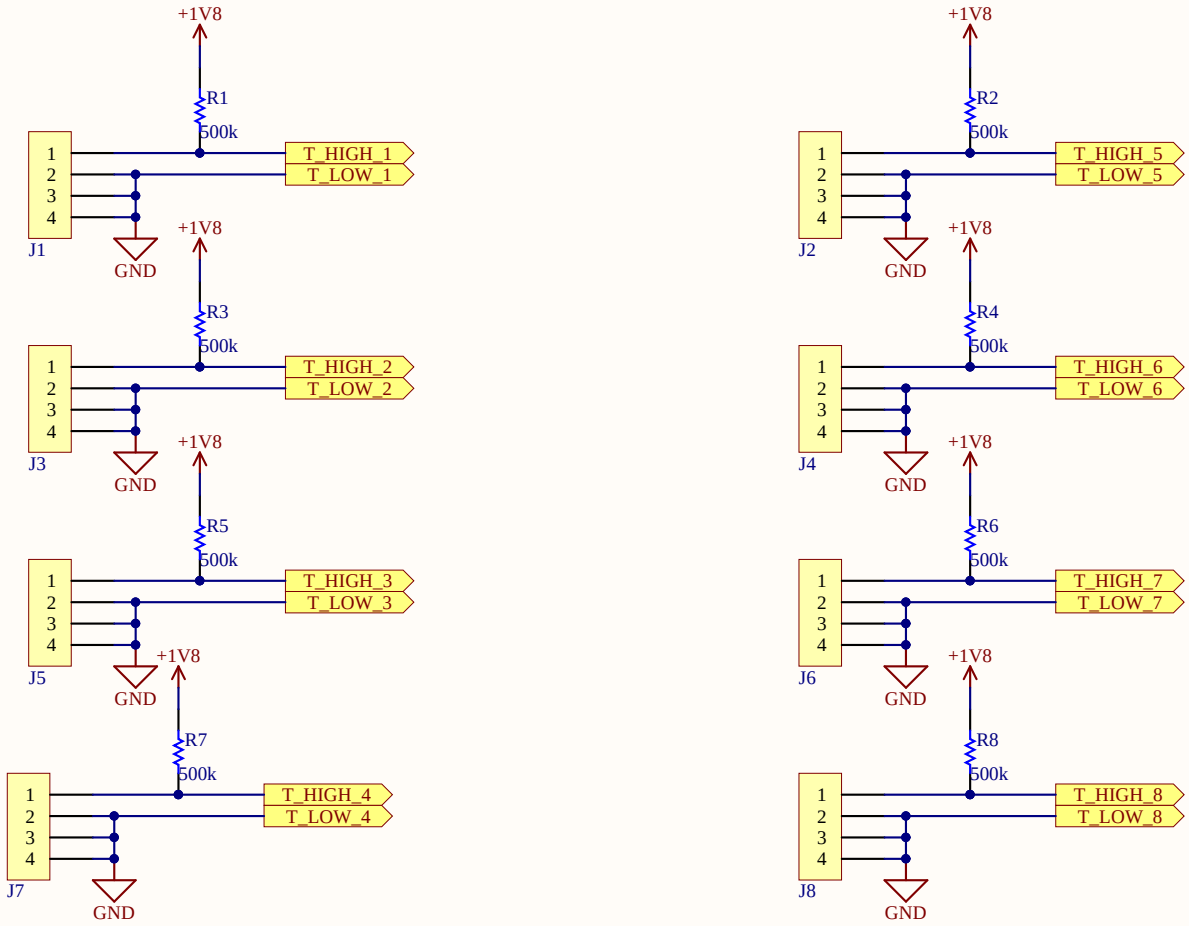


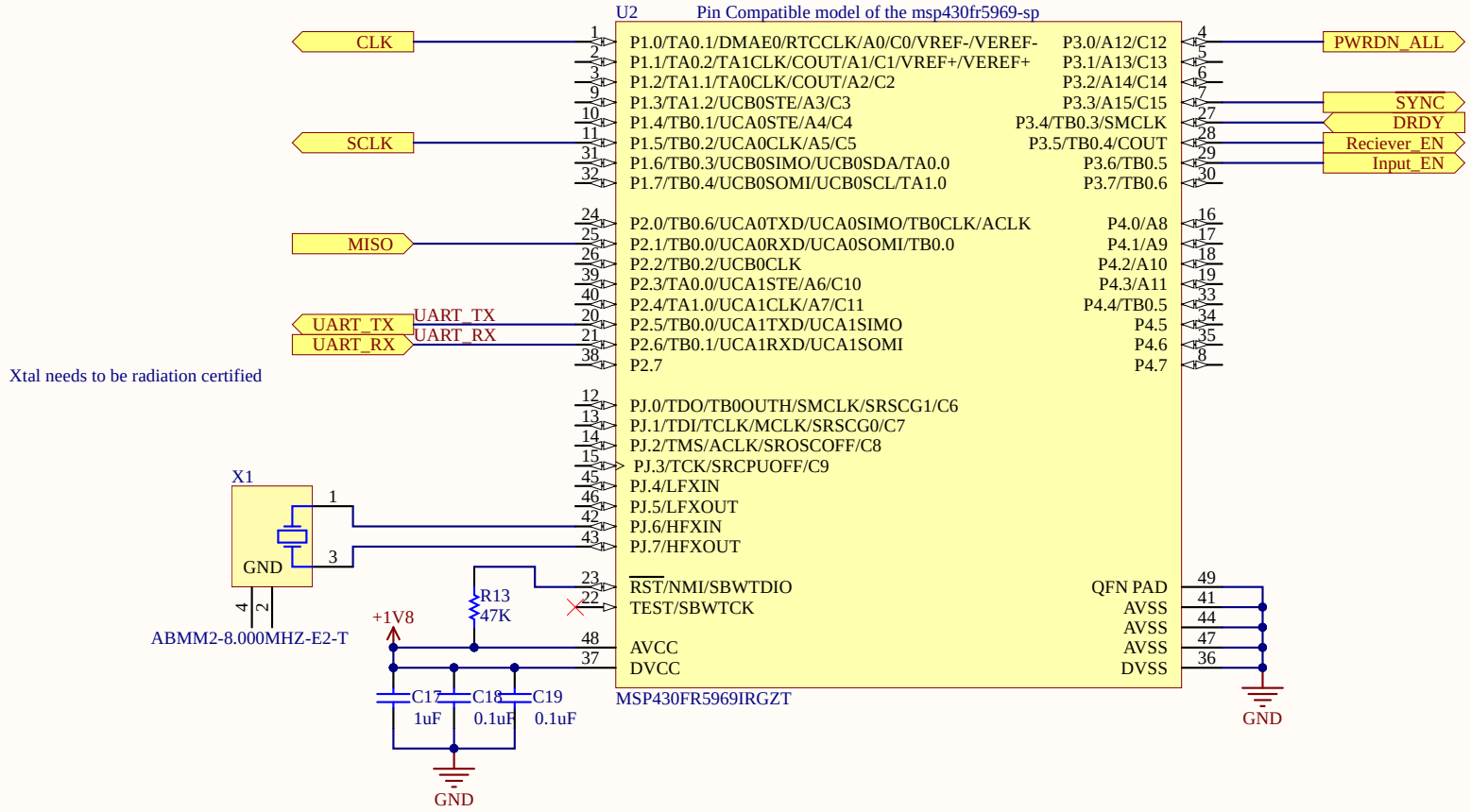
Title: Astranis Thermocouple ADC		
Size: A	Number:	Revision: 1
Date: 10/4/2018		Sheet of
File: C:\Users\..\ADC.SchDoc		Drawn By: Sam Deghuee



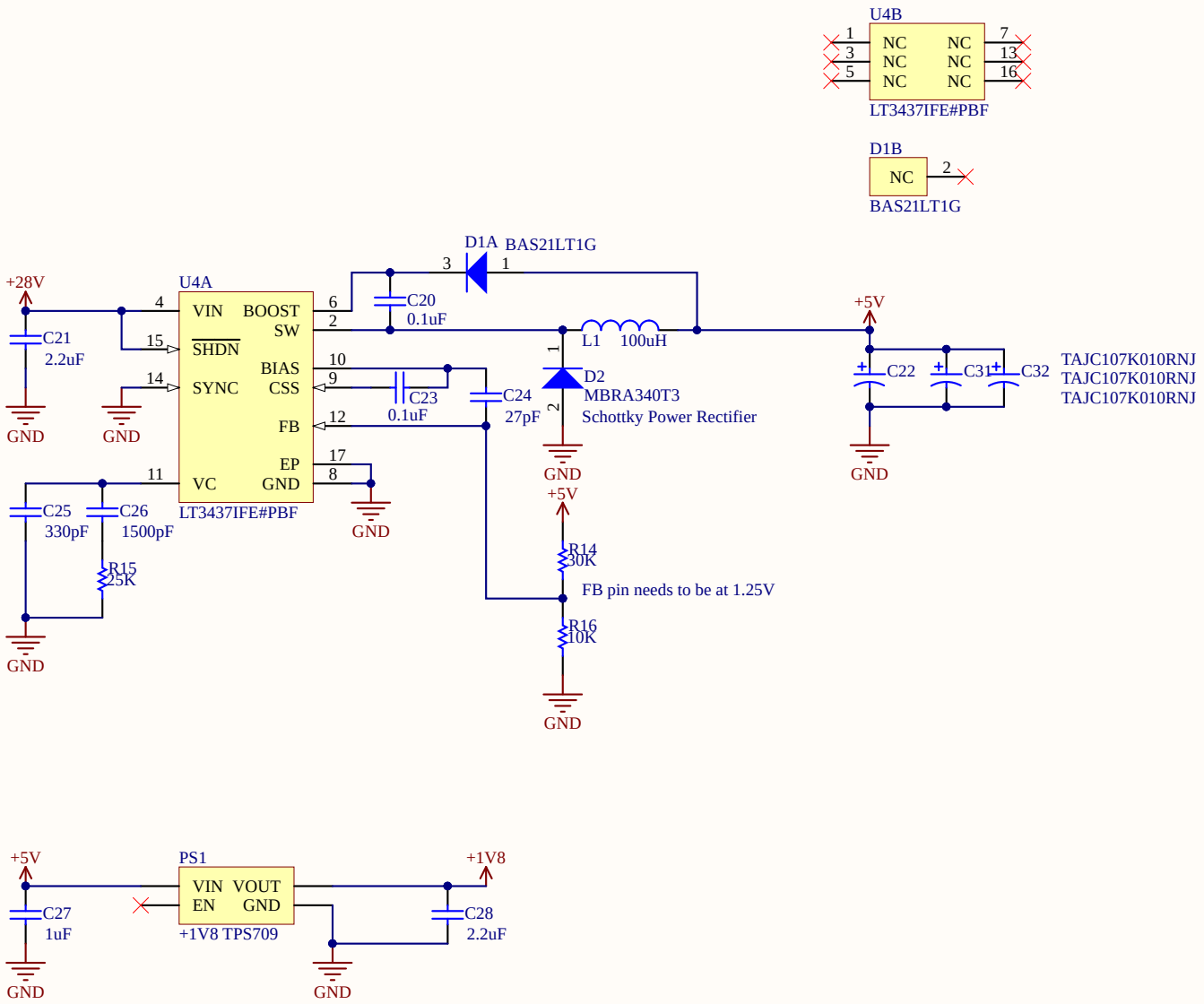
Title: Astranis Thermocouple Power		
Size: A	Number:	Revision: 1
Date: 10/4/2018		Sheet of
File: C:\Users\..\Astranis.SchDoc		Drawn By: Sam Deghuee



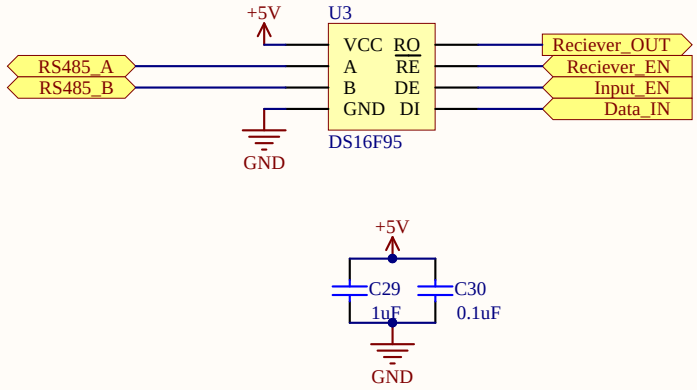
Title: Astranis Thermocouple Connector		
Size: A	Number:	Revision: 1
Date: 10/4/2018		Sheet of
File: C:\Users\..\M12_Connector.SchDoc		Drawn By: Sam Deghuee



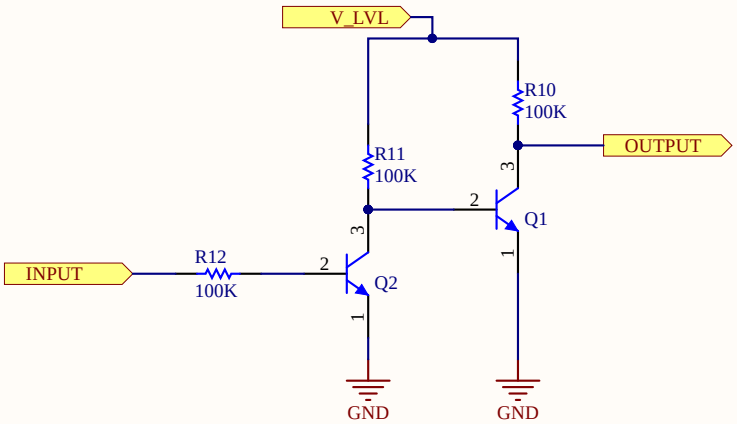
Title: Astranis Thermocouple MSP430		
Size: A	Number:	Revision: 1
Date: 10/4/2018		Sheet of
File: C:\Users\..\MSP430.SchDoc		Drawn By: Sam Deghuee



Title: Astranis Thermocouple Power		
Size: A	Number:	Revision: 1
Date: 10/4/2018		Sheet of
File: C:\Users\..\Power.SchDoc		Drawn By: Sam Deghuee



Title: Astranis Thermocouple RS485		
Size: A	Number:	Revision: 1
Date: 10/4/2018		Sheet of
File: C:\Users\..\RS485.SchDoc		Drawn By: Sam Deghuee



Title: Astranis Thermocouple LVL Shifter			
Size: A	Number:		Revision: 1
Date: 10/4/2018		Sheet:	of
File: C:\Users\..\Unidirectional_lvlshifter.SchDoc		Drawn By:	Sam Deghuee

Comment	Description	Designator	Footprint	LibRef	Quantity
CAP0603	0603 (1608 Metric) Chip Capacitor	C1_Designator2, C1_Designator3, C2_Designator1, C2_Designator2, C2_Designator3, C3_Designator1, C3_Designator2, C3_Designator3, C4_Designator1, C4_Designator2, C4_Designator3, C5_Designator1, C5_Designator2, C5_Designator3, C6_Designator1, C6_Designator2, C6_Designator3, C7_Designator1, C7_Designator2, C7_Designator3, C8_Designator1, C8_Designator2, C8_Designator3, C9_Designator1, C9_Designator2, C9_Designator3, C10_Designator1, C10_Designator2, C10_Designator3, C11_Designator1, C11_Designator2, C11_Designator3, C12_Designator1, C12_Designator2, C12_Designator3, C13_Designator1, C13_Designator2, C13_Designator3, C14_Designator1,	CAPC0603(160B)100_L	CMP-1590-00005-1	61
TAJC107K010RNJ	Standard Tantalum, 100 uF, +/- 10%, 10 V, -55 to 125 degC, 2-Pin SMD (2312), RoHS, Tape and Reel	C22, C31, C32	AVX-TAJ-C-2_M	CMP-2100-03690-1	3
BAS21LT1G	DIODE SWITCH 200MA 250V SOT23	D1	ONSC-SOT-23-3-318-08_V	CMP-1679-00004-3	1
MBRA340T3	Schottky Power Rectifier, 2-Pin SMA, Tape and Reel	D2	ONSC-SMA-2-403D-02_F_V	CMP-1055-00314-1	1
M12 PCB Pannel Mount	M12,REAR MOUNTING,MALE,A CODE,4P	J1_Designator1, J1_Designator2, J1_Designator3, J2_Designator1, J2_Designator2, J2_Designator3, J3_Designator1, J3_Designator2, J3_Designator3, J4_Designator1, J4_Designator2, J4_Designator3, J5_Designator1, J5_Designator2, J5_Designator3, J6_Designator1, J6_Designator2, J6_Designator3, J7_Designator1, J7_Designator2, J7_Designator3, J8_Designator1, J8_Designator2, J8_Designator3		M12	24
IHLP4040DZER101M11	Low Profile, High Current IHLP® Inductor, 100 uH, +/- 20%, 2.5 A, -55 to 125 degC, 2-Pin SMD, RoHS, Tape and Reel	L1	VISH-IHLP4040DZER101M11_V	CMP-2000-06447-1	1
+1V8 TPS709	150mA linear regulators, low dropout with reverse current protection	PS1		TPS709	1
MPSA18G	Low Noise Transistor, NPN Silicon, 3-Pin TO-92, Pb-Free, Bulk Box	Q1_Designator7, Q1_Designator8, Q1_Designator9, Q1_Designator10, Q2_Designator7, Q2_Designator8, Q2_Designator9, Q2_Designator10	ONSC-TO-92-3-29-11	CMP-1048-01396-1	8
RES0603	0603 (1608 Metric) Chip Resistor	R1_Designator2, R1_Designator3, R2_Designator1, R2_Designator2, R2_Designator3, R3_Designator1, R3_Designator2, R3_Designator3, R4_Designator1, R4_Designator2, R4_Designator3, R5_Designator1, R5_Designator2, R5_Designator3, R6_Designator1, R6_Designator2, R6_Designator3, R7_Designator1, R7_Designator2, R7_Designator3, R8_Designator1, R8_Designator2, R8_Designator3, R9_Designator1, R9_Designator2, R9_Designator3, R10_Designator7, R10_Designator8, R10_Designator9, R10_Designator10, R11_Designator7, R11_Designator8, R11_Designator9, R11_Designator10, R12_Designator7, R12_Designator8, R12_Designator9, R12_Designator10, R13, R14, R15, R16	RESC0603(160B)_L	CMP-1591-00001-1	43
ads1278-sp	The ADS1278-SP (octal) is a 24-bit, delta-sigma (ΔΣ) analog-to-digital converter (ADC) with data rates up to 128k samples per second (SPS), allowing simultaneous sampling of eight channels.	U1_Designator1, U1_Designator2, U1_Designator3		ads1278-sp	3
MSP430FR5969IRGZT	16 MHz Mixed Signal Microcontroller with 2 KB SRAM and 40 GPIOs, -40 to 85 degC, 48-Pin QFN (RGZ), Green (RoHS & no Sb/Br), Tape and Reel	U2	RGZ0048B_V	CMP-2000-06762-1	1
DS16F95	The DS16F95 Differential Bus Transceiver is a monolithic integrated circuit designed for bidirectional data communication on balanced multipoint bus transmission lines. The transceiver meets EIA standard RS-485 as well as RS-422A.	U3		DS16F95QML	1
LT3437IFE#PBF	High Voltage 500 mA, 200 kHz Step-Down Switching Regulator with 100 uA Quiescent Current, 16-pin SOP (FE-16), -40 to 125 degC, Pb-Free	U4	LT-FE-16-EPV-BC_M	CMP-0491-00587-1	1
ABMM2-8.000MHZ-E2-T	Ceramic Surface Mount Low Profile Quartz Crystal, 8 MHz, -20 to 70 degC, 4-Pin 6 x 3.6 x 1.2 mm SMD, RoHS, 1000pcs / Reel	X1	ABRA-ABMM2-4_V	CMP-0277-00003-1	1