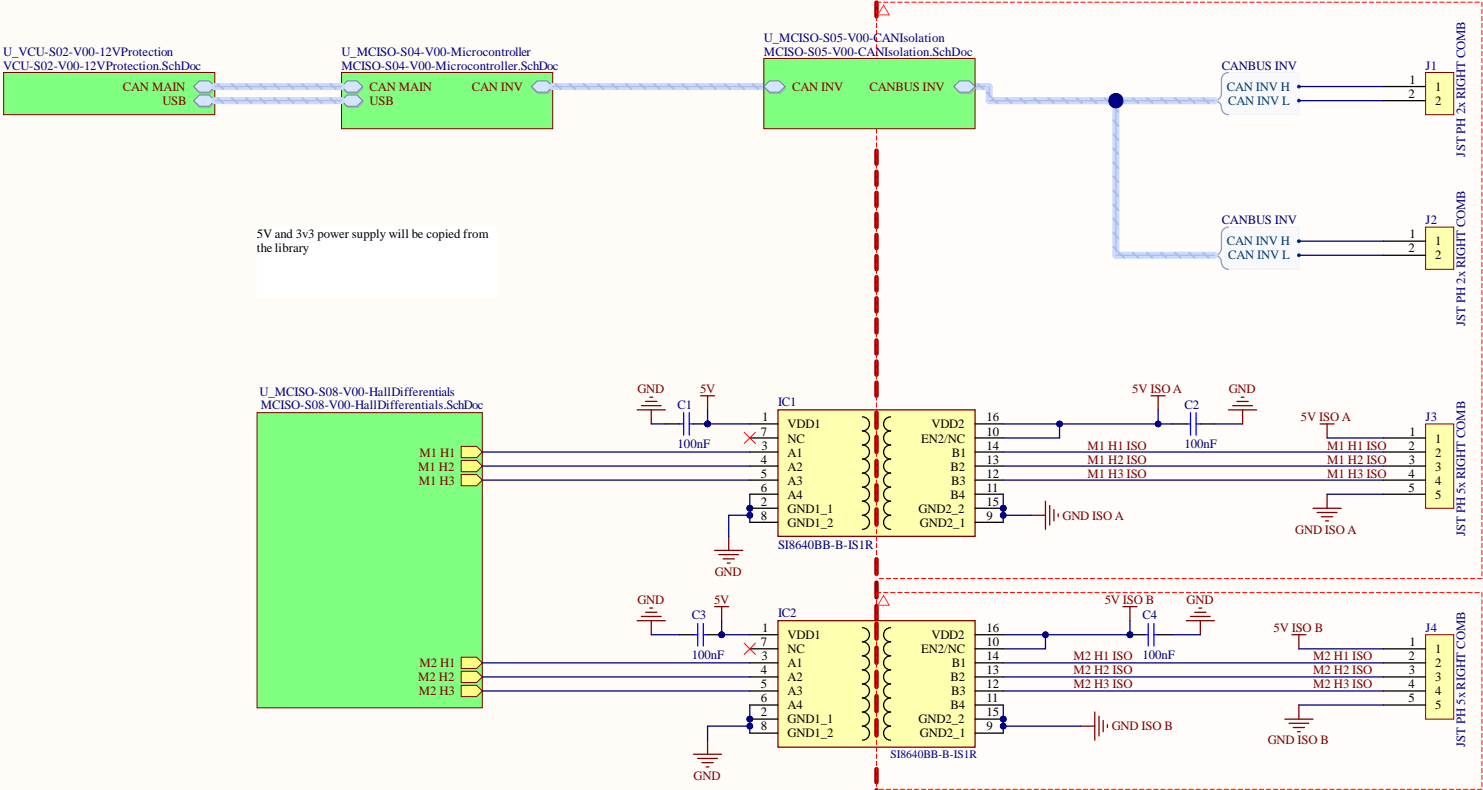
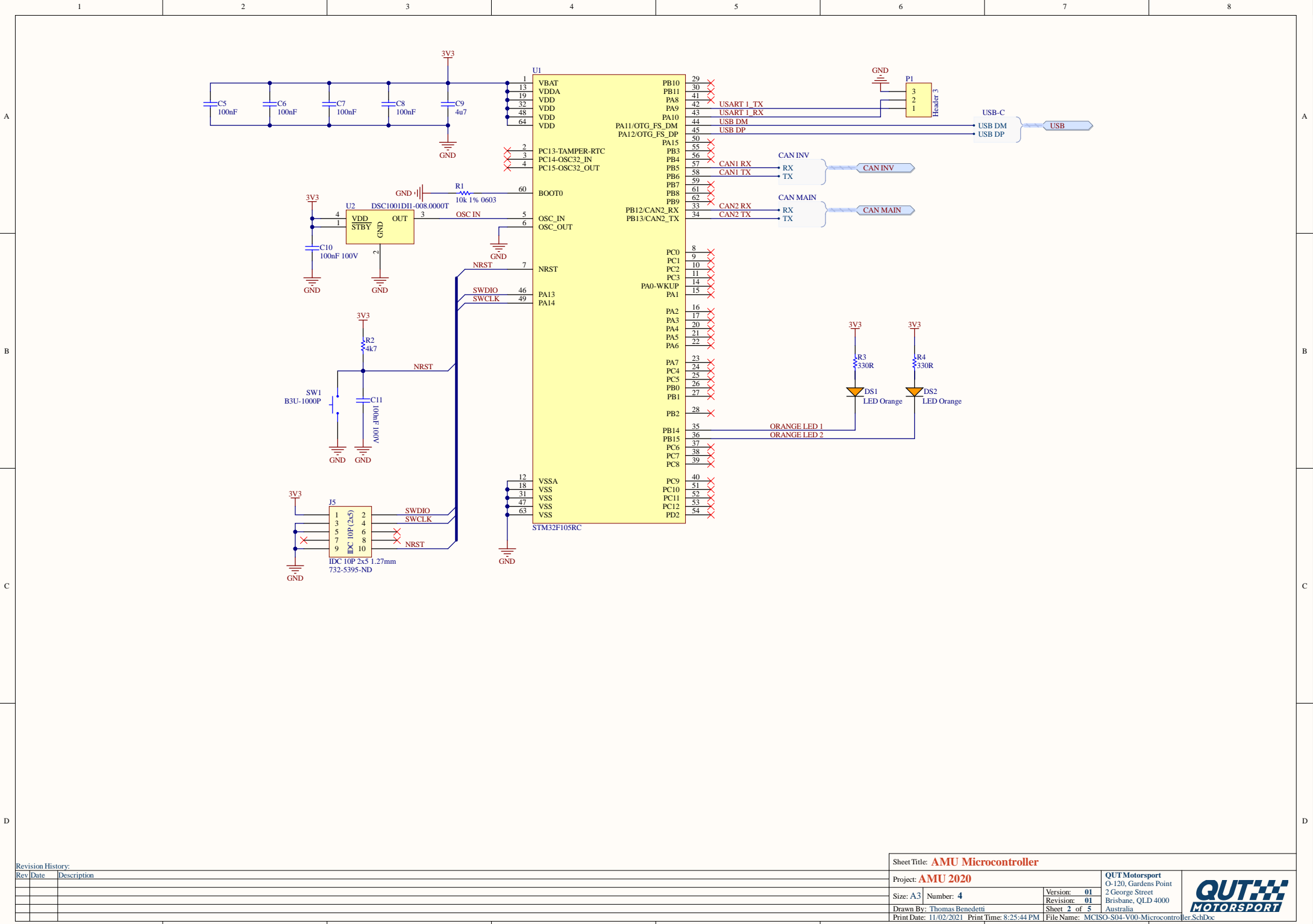


CAN ISOLATOR



Title		
Size A3	Number	Revision
Date: 2/11/2021	Sheet of	
File: C:\Users\...MCISO-S01-V00-Master.SchDoc	Drawn By:	

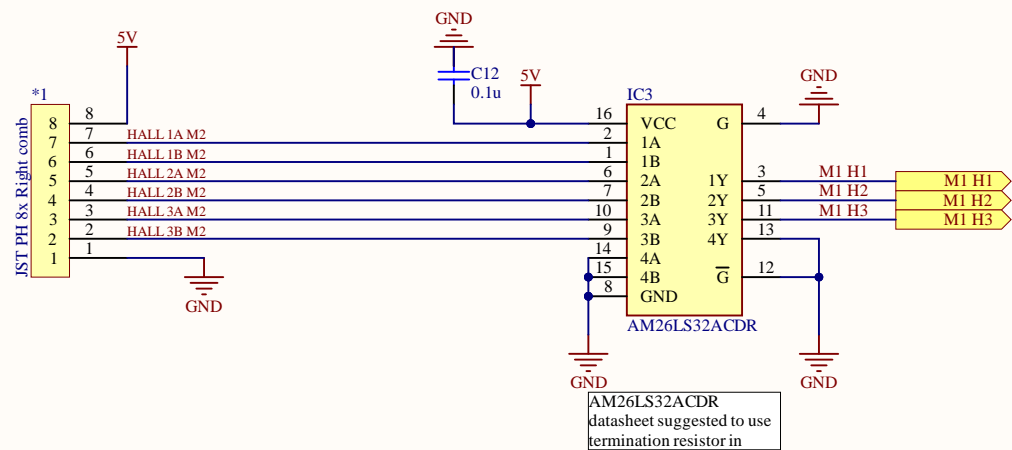


Revision History:

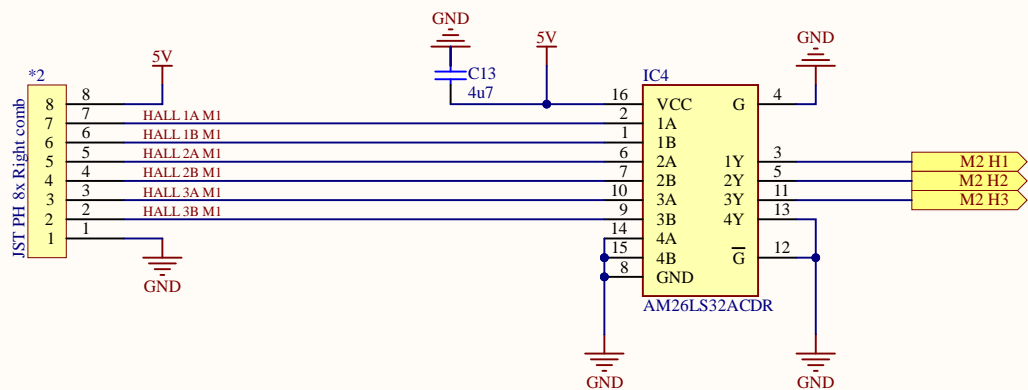
Rev	Date	Description

Sheet Title: <b>AMU Microcontroller</b>	
Project: <b>AMU 2020</b>	
Size: A3	Number: <b>4</b>
Drawn By: Thomas Benedetti	Version: <b>01</b>
Print Date: 11/02/2021	Revision: <b>01</b>
Print Time: 8:25:44 PM	Sheet <b>2</b> of <b>5</b>
File Name: MCISO-S04-V00-Microcontroller.SchDoc	

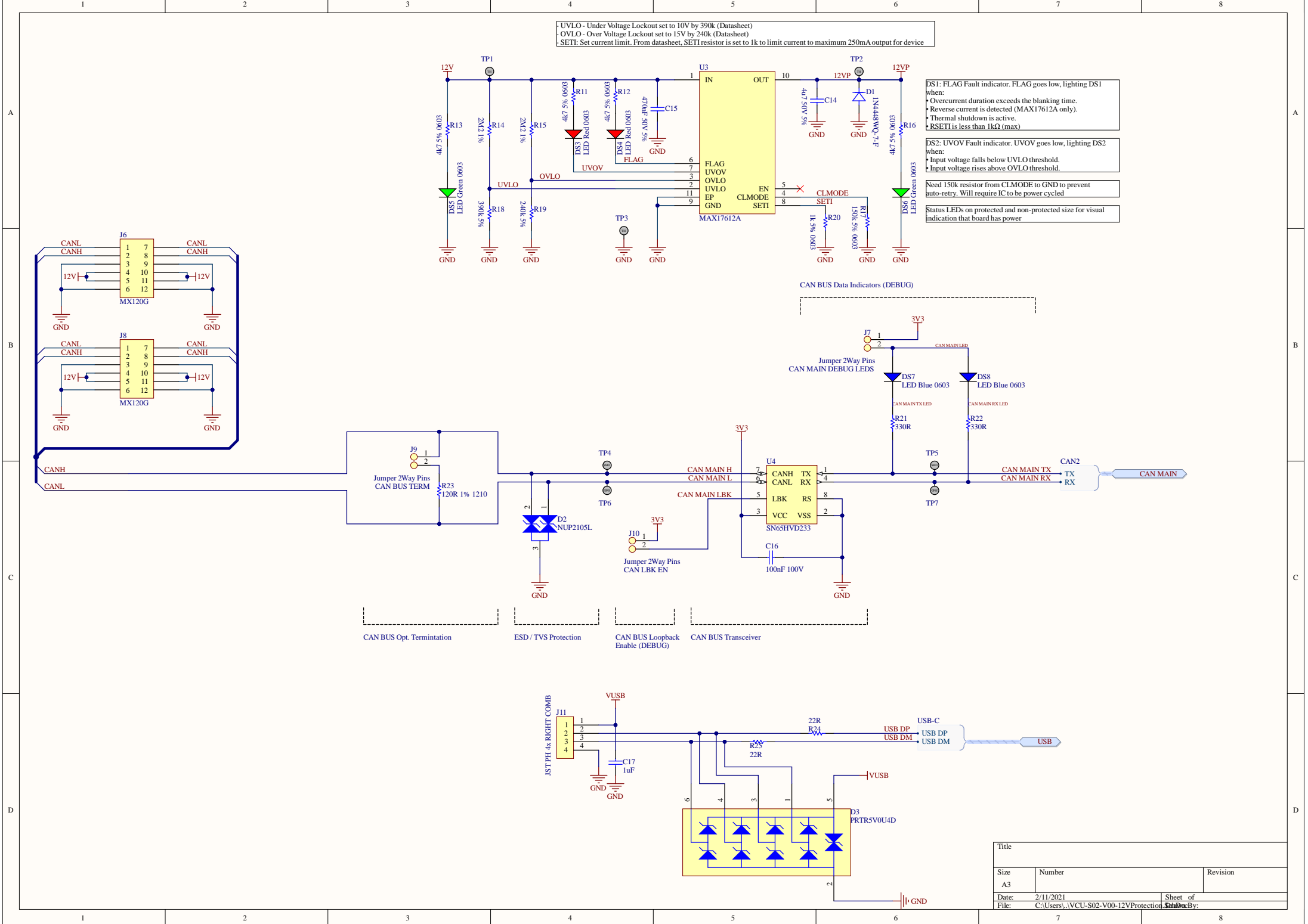
QUT Motorsport  
O-120, Gardens Point  
2 George Street  
Brisbane, QLD 4000  
Australia

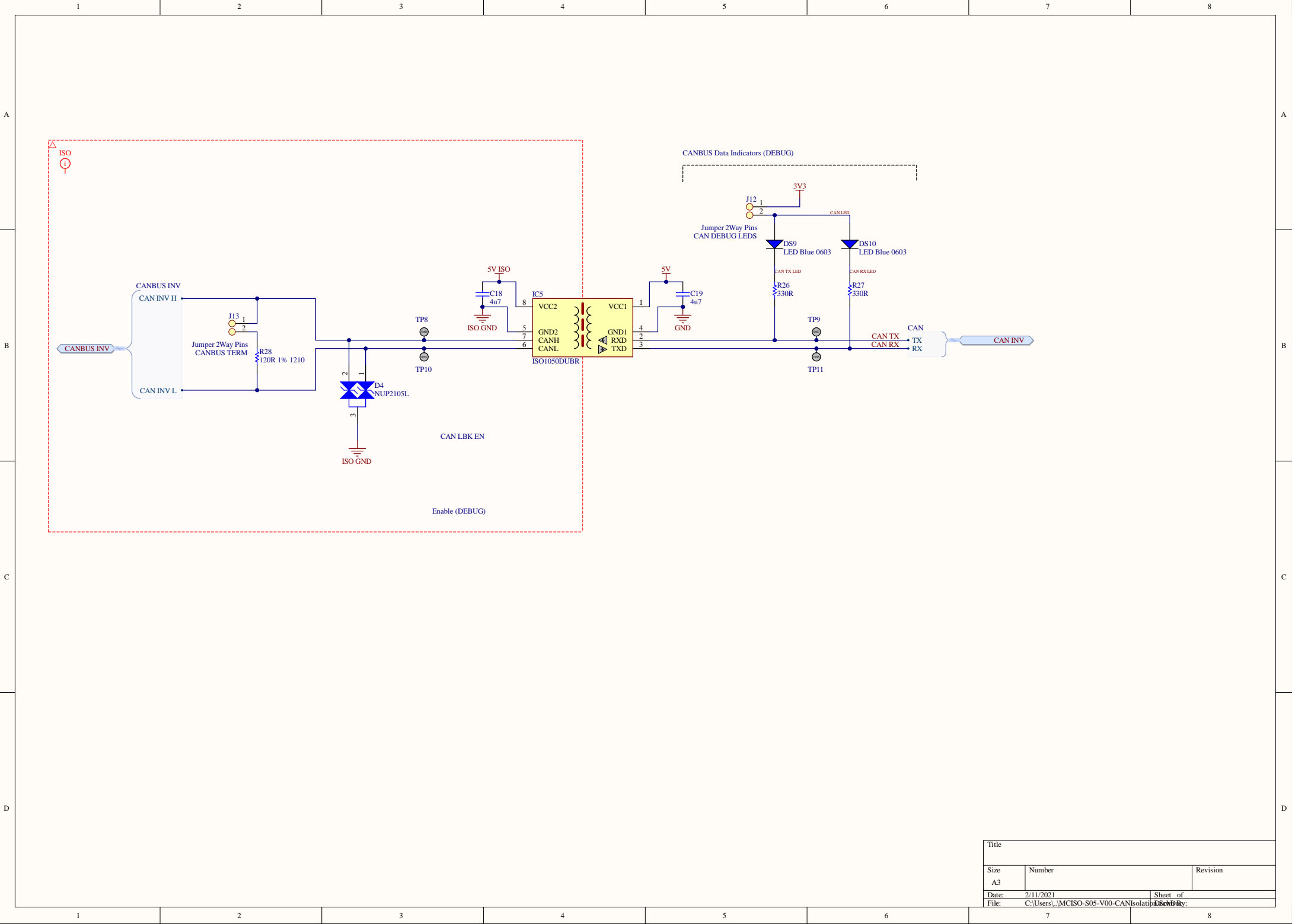


Capacitor must be placed physically close to differential IC

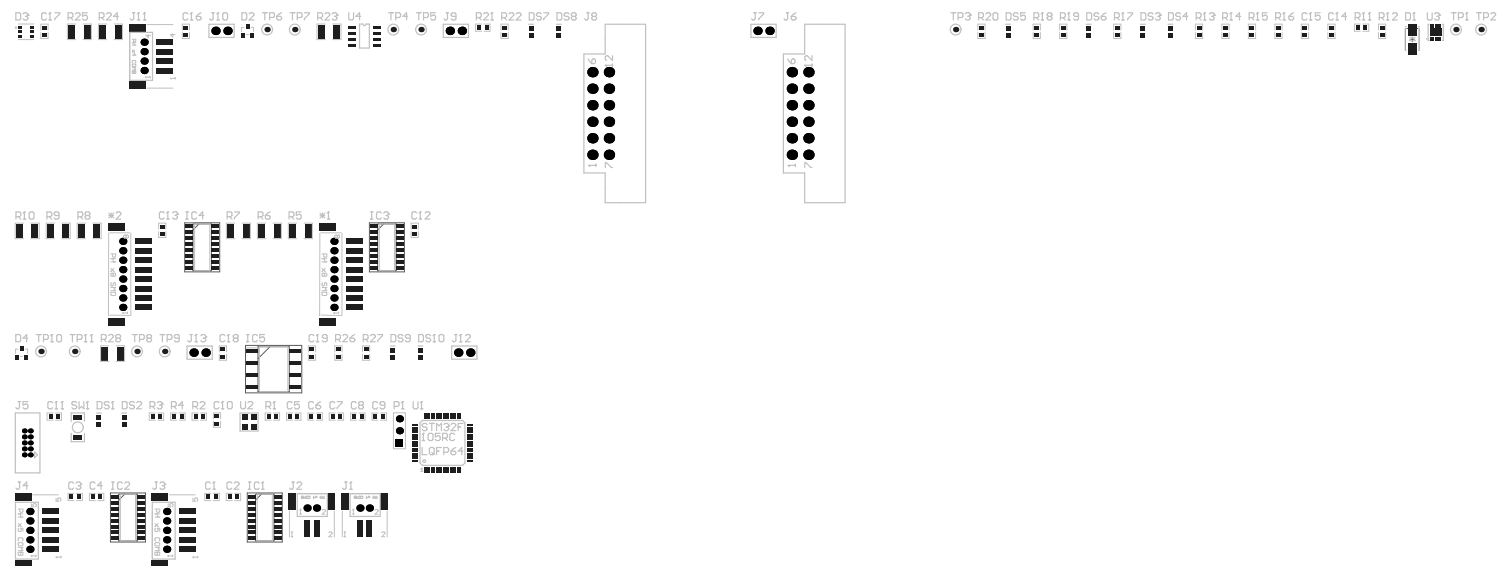


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Size A4	Number	Revision
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Title		
Size A3	Number	Revision
Date: 2/11/2021	Sheet of	7
File: C:\Users\jmciso\S05-V00-CANIsolation\DCS05.Dwg		



Comment	Description	Designator	Footprint	LibRef	Quantity
JST PH 8x Right comb		*1, *2	JST PH 8x RIGHT SMD	JST PH 8x Right comb	2
100nF	Capacitor, Ceramic, SMD, 100nF, 50V, 5%, X7R, 0603	C1, C2, C3, C4, C5, C6, C7, C8	Cap_Ceramic_0603	100nF 50V 5% X7R 0603	8
4u7	Capacitor, Ceramic, SMD, 4u7, 50V, 5%, X7R, 0603	C9, C13, C18, C19	Cap_Ceramic_0603	4u7 50V 5% X7R 0603	4
100nF 100V	Capacitor, Ceramic, SMD, 100nF, 100V, 5%, X7R, 0603	C10, C11, C16	Cap_Ceramic_0603	100nF 100V 5% X7R 0603	3
0.1u	Capacitor, Ceramic, SMD, 4u7, 50V, 5%, X7R, 0603	C12	Cap_Ceramic_0603	4u7 50V 5% X7R 0603	1
4u7 50V 5%	Capacitor, Ceramic, SMD, 4u7, 50V, 5%, X7R, 0603	C14	Cap_Ceramic_0603	4u7 50V 5% X7R 0603	1
470nF 50V 5%	Capacitor, Ceramic, SMD, 470nF, 50V, 5%, X7R, 0603	C15	Cap_Ceramic_0603	470nF 50V 5% X7R 0603	1
1uF	Capacitor, Ceramic, SMD, 1uF, 25V, 5%, X7R, 0603	C17	Cap_Ceramic_0603	1uF 25V 5% X7R 0603	1
1N4448WQ-7-F	Diode, SMD, 75V, 5%, 250mA, SOD123	D1	SMA	1N4448WQ-7-F	1
NUP2105L	NUP2105L	D2, D4	NUP2105L	NUP2105L	2
PRTR5V0U4D	Clamp Ipp Tvs Diode Surface Mount 6-TSOP	D3	SC-47	PRTR5V0U4D	1
LED Orange		DS1, DS2	LED ORANGE 0603	LED ORANGE 0603	2
LED Red 0603	LED Red 0603	DS3, DS4	LED RED 0603	LED Red 0603	2
LED Green 0603	LED Green 0603	DS5, DS6	LED GREEN 0603	LED Green 0603	2
LED Blue 0603		DS7, DS8, DS9, DS10	LED BLUE 0603	LED BLUE 0603	4
SI8640BB-B-IS1R	Integrated Circuit	IC1, IC2	SOIC127P600X175-16N	SI8640BB-B-IS1R	2
AM26LS32ACDR	Integrated Circuit	IC3, IC4	SOIC127P600X175-16N	AM26LS32ACDR	2
ISO1050DUBR	Integrated Circuit	IC5	SOP254P1040X485-8N	ISO1050DUBR	1
JST PH 2x RIGHT COMB		J1, J2	JST PH 2x RIGHT COMB	JST PH 2x RIGHT COMB	2
JST PH 5x RIGHT COMB		J3, J4	JST PH 5x RIGHT COMB	JST PH 5x RIGHT COMB	2
IDC 10P 2x5 1.27mm	IDC 10P 2x5 1.27mm	J5	IDC 1.27MM 10P	IDC 10P 2x5 1.27mm	1
MX120G	MX120G with standard connector layout	J6, J8	MX120G	MX120G	2
Jumper 2Way Pins	Jumper 2Way Side Pins	J7, J9, J10, J12, J13	Jumper_2Way_Pin	Jumper 2Way Side Pins	5
JST PH 4x RIGHT COMB		J11	JST PH 4x RIGHT COMB	JST PH 4x RIGHT COMB	1
Header 3	Header, 3-Pin	P1	HDR1X3	Header 3	1
10k 1% 0603	Resistor, SMD, 20k, 0.1W, 5%, 0603	R1	Res_ThinFilm_0603	20k 1% 0603	1
4k7	Resistor, SMD, 4k7, 0.1W, 5%, 0603	R2	Res_ThinFilm_0603	4k7 5% 0603	1
330R	Resistor, SMD, 330R, 0.1W, 5%, 0603	R3, R4, R21, R22, R26, R27	Res_ThinFilm_0603	330R 5% 0603	6
4k7 5% 0603	Resistor, SMD, 4k7, 0.1W, 5%, 0603	R11, R12, R13, R16	Res_ThinFilm_0603	4k7 5% 0603	4
2M2 1%	Resistor, SMD, 2M2, 0.125W, 1%, 0603	R14, R15	Res_ThinFilm_0603	2M2 1% 0603	2
150k 5% 0603	Resistor, SMD, 150k, 0.1W, 5%, 0603	R17	Res_ThinFilm_0603	150k 5%, 0603	1
390k 5%	Resistor, SMD, 390k, 0.1W, 5%, 0603	R18	Res_ThinFilm_0603	390k 5% 0603	1
240k 5%	Resistor, SMD, 240k, 0.1W, 5%, 0603	R19	Res_ThinFilm_0603	240k 5% 0603	1
1k 5% 0603	Resistor, SMD, 1k, 0.1W, 5%, 0603	R20	Res_ThinFilm_0603	1k 5% 0603	1
120R 1% 1210	Resistor, SMD, 120R, 0.25W, 1%, 1210	R23, R28	Res_ThinFilm_1210	120R 1% 1210	2
22R	Resistor, SMD, 120R, 0.25W, 1%, 1210	R24, R25	Res_ThinFilm_1210	120R 1% 1210	2
B3U-1000P	Omron B3U-1000P Ultra Miniature Switch	SW1	BTN B3U-1000P	BTN B3U-1000P	1
TestPoint		TP1, TP2, TP3	TestPointSMD	TestPoint	3
TestPoint_SMD		TP4, TP5, TP6, TP7, TP8, TP9, TP10, TP11	TestPointSMD	TestPoint_SMD	8
STM32F105RC	ARM® Cortex®-M3 STM32F1 Microcontroller IC 32-Bit 72MHz 256KB (256k x 8) FLASH 64-LOFP (10x10) on 8MHz XO (Standard) CMOS Oscillator 1.8 ~ 3.3V Standby (Power Down) 4-SMD, No Lead	U1	STM32F105RC	STM32F105RC	1
DSC1001D11-008.0000T		U2	DSC1001D11-008.0000TCT-ND	DSC1001D11-008.0000T	1
MAX17612A	4.5V to 60V, 250mA Current-Limiter with OV, UV, and Reverse Protection	U3	10-Pin TDFN EP	MAX17612A	1
SN65HVD233		U4	SN65HVD233DR	SN65HVD233	1