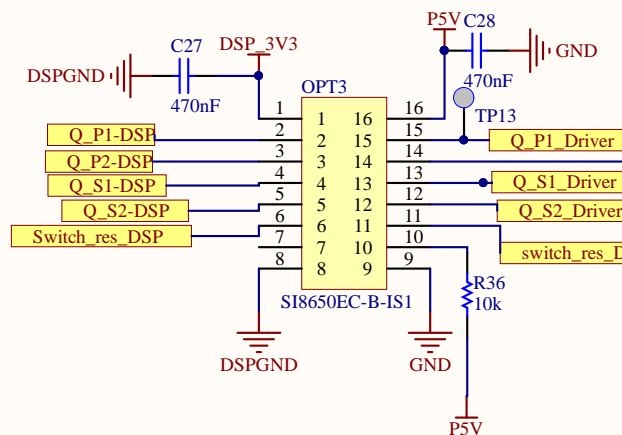
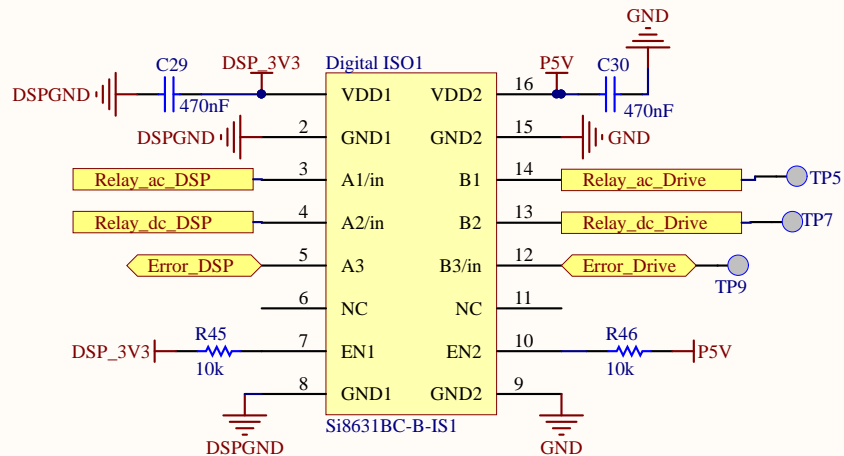


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CUK 3Phase-Analog Isolation			
Size	Number	Design by:	Revision
A3		Siamak Mehrnami	V1.1
Date:	4/13/2019	Sheet	of
File:	E:\Debanjan\materials\Drive\CUK_3Ph_Analog_Isolation.SchDoc		

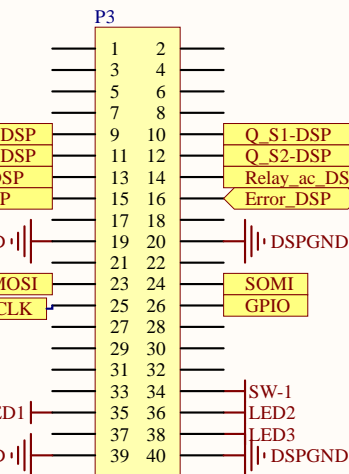
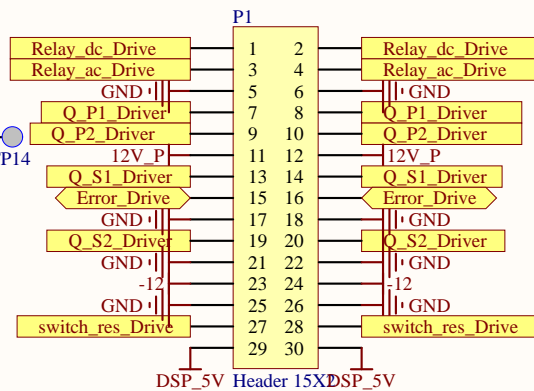
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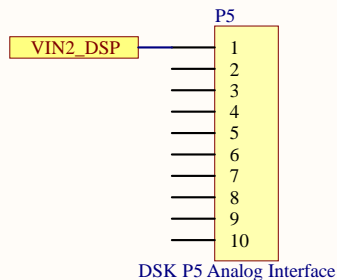
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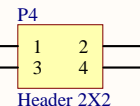
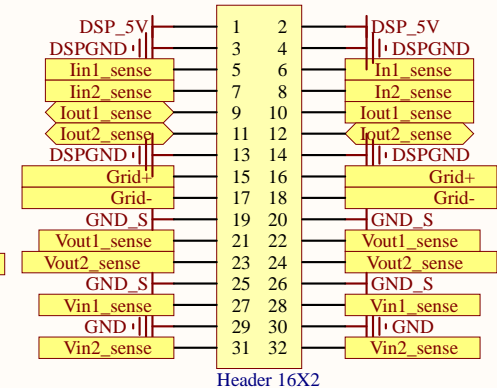
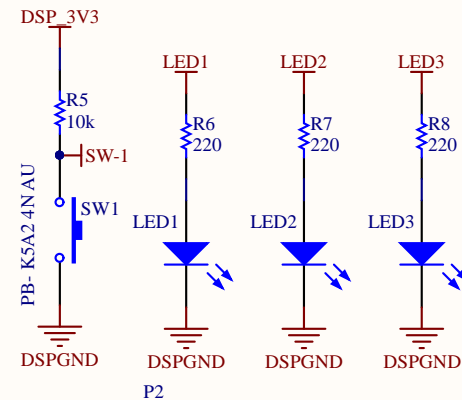
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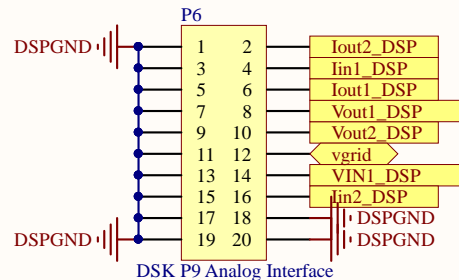
DSK P8 Digital Interface



DSK P5 Analog Interface



Header 2X2



DSK P9 Analog Interface

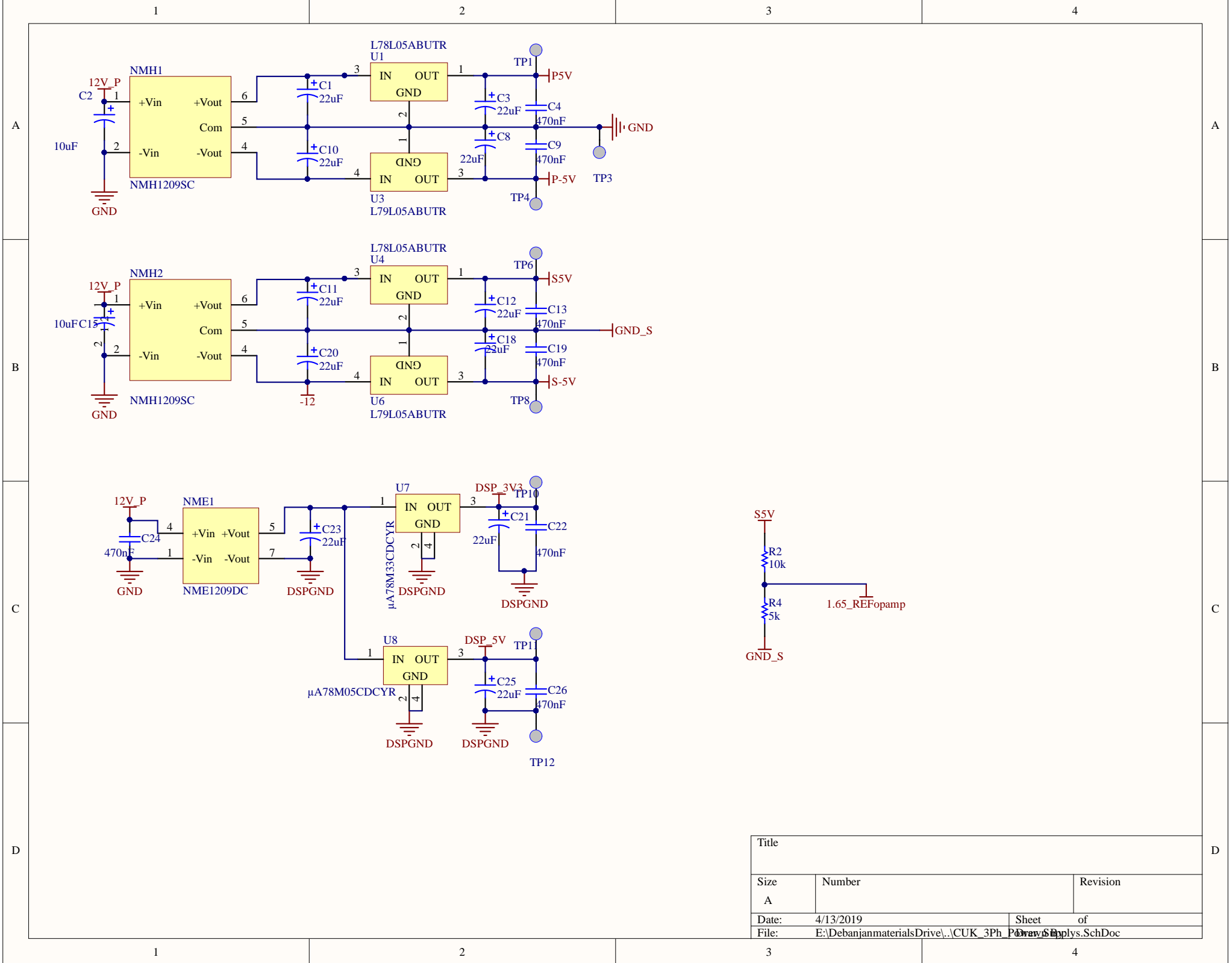
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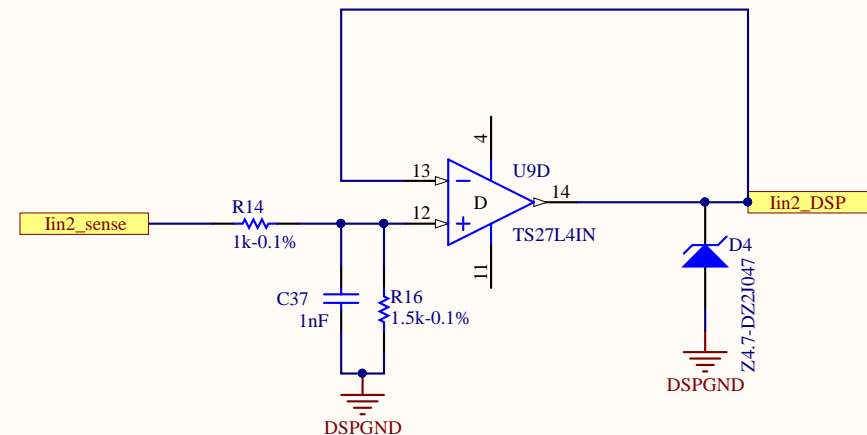
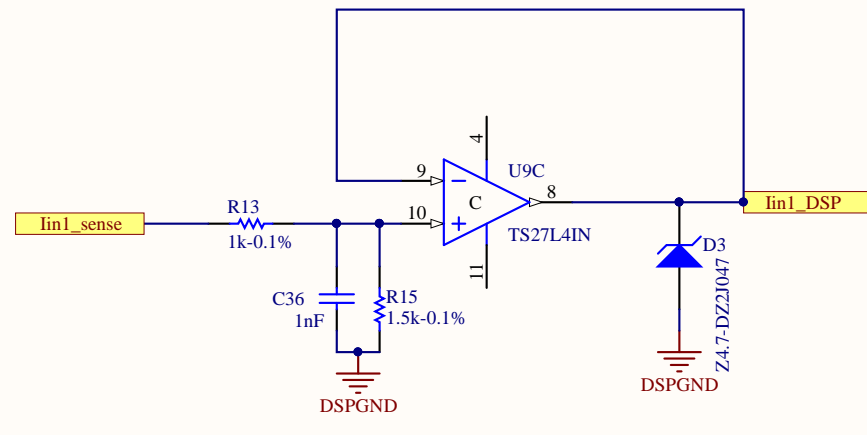
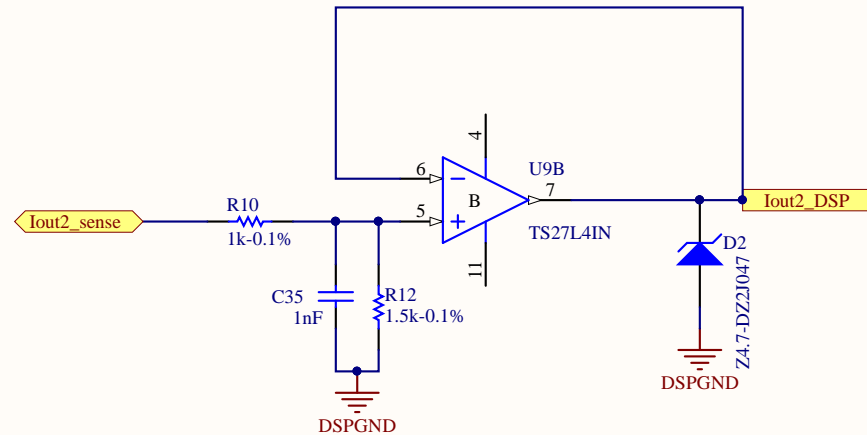
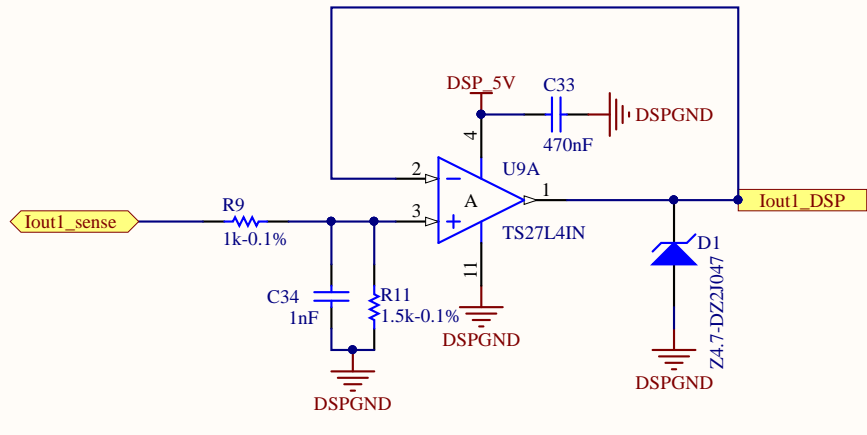
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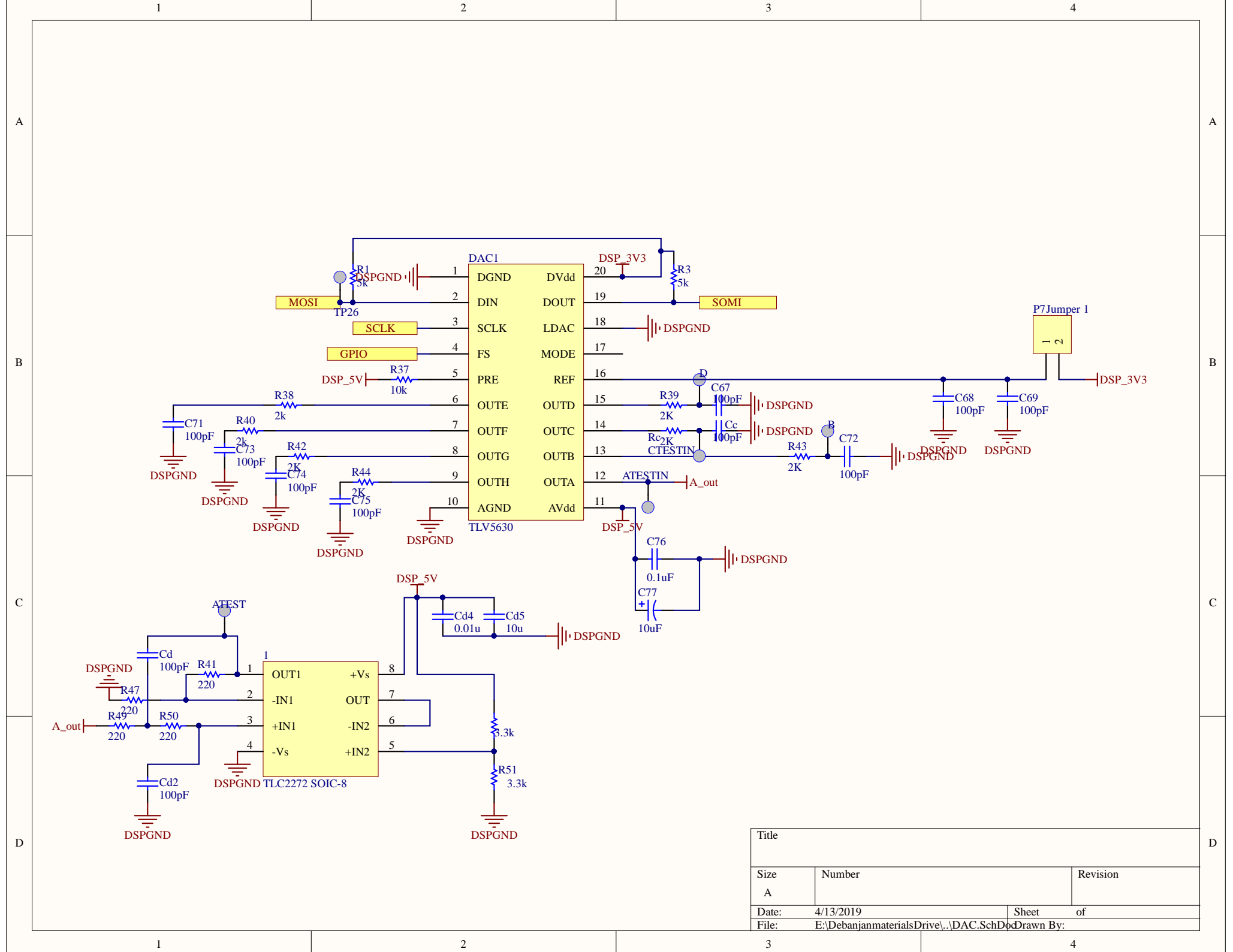
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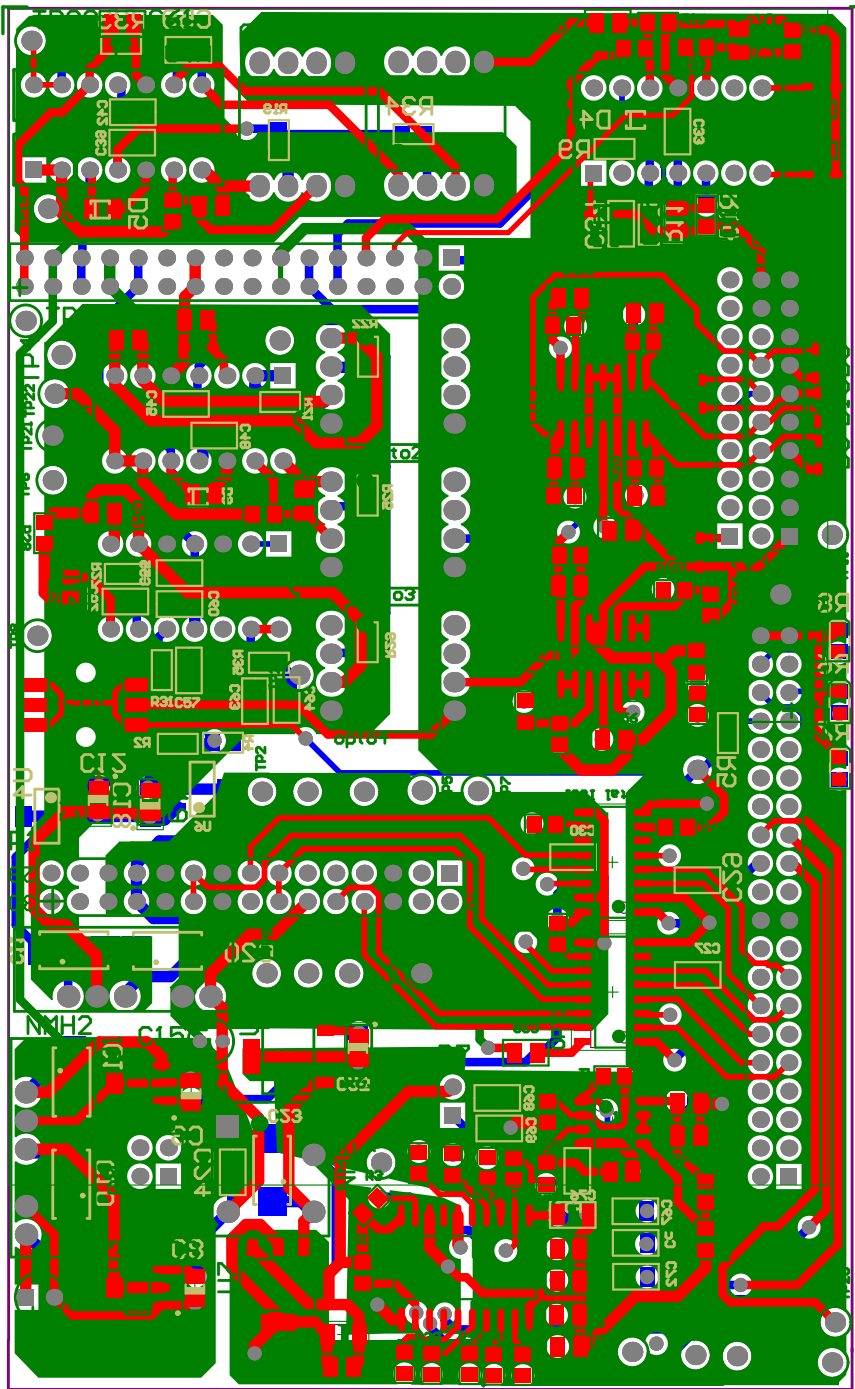
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CUK 1Phase-digital Isolation and connectors			
Size	Number	Design by: Debanjan	Revision V1.1-1
A			
Date:	4/13/2019	Sheet	of
File:	E:\DebanjanmaterialsDrive\...\CUK_3Ph_digitalIsolationInterface.SchDoc		





Title			
CUK 3Phase-signal conditioner			
Size	Number	Design by: Siamak Mehrnami	Revision
A			V1.1-1
Date:	4/13/2019	Sheet	of
File:	E:\DebanjanmaterialsDrive\...\CUK_3Phase-signal conditioner.SchDoc		





Comment	Description	Designator	Footprint	LibRef	Quantity
TLC2272 SOIC-8		1	AD8056	AD8056	1
Res1	Resistor	3.3k, R1, R2, R3, R4	0805 RES	Res1	58
Test point		ATEST, ATESTIN, B	Test Point	Test point	28
Tantalum	Polarized Capacitor	C1, C10, C11, C20,	Cap tantal 22u-25V	Cap Pol1	5
electrolytic	Polarized Capacitor	C2	CAP-10u-16V	Cap Pol1	1
Tantalum/T520A2	Polarized Capacitor	C3, C8, C12, C18, C	Cap Tantal 3216	Cap Pol1	7
Cap	Capacitor	C4, C9, C13, C19, C	Capacitor 0805	Cap	56
electrolytic	Polarized Capacitor	C15	Cap elec 10u/16V	Cap Pol1	1
Z4.7-DZ2J047	Zener Diode	D1, D2, D3, D4, D5	Zener DZ2J047	D Zener	13
TLV5630		DAC1	TLV5630	TLV5630	1
Si8631BC-B-IS1	Si8631BC-B-IS1	Digital ISO1	SOIC16 Narrow wi	Digital Isolator 2/1	1
ON	Typical BLUE SiC LED	LED1, LED2, LED3	LED 0805	LED3	3
NME1209DC		NME1	NME1209DC	NME----DC	1
NMH1209SC		NMH1, NMH2	NMH1209SC	NMH----SC_1, NMH	2
SI8650EC-B-IS1	SI8650EC-B-IS1	OPT3	SOIC16pin	digital isolator 16 p	1
HCNR200.		opto1, opto2, opto	HCNR200	Component_1	5
Header 15X2	Header, 15-Pin, Du	P1	HDR2X15	Header 15X2	1
Header 16X2	Header, 16-Pin, Du	P2	HDR2X16	Header 16X2	1
DSK P8 Digital Inte	Header, 20-Pin, Du	P3	HDR2X20	Header 20X2	1
Header 2X2	Header, 2-Pin, Dua	P4	HDR2X2	Header 2X2	1
DSK P5 Analog Inte	Header, 10-Pin	P5	HDR1X10	Header 10	1
DSK P9 Analog Inte	Header, 10-Pin, Du	P6	HDR2X10	Header 10X2	1
Jumper 1	Header, 2-Pin	P7	HDR1X2	Header 2	1
PB- K5A2 4N AU	Switch	SW1	push button	SW-PB	1
L78L05ABUTR	Positive Voltage Re	U1, U4	Reg SOT-89 +5	L78L05ABZ	2
L79L05ABUTR	Negative-Voltage R	U3, U6	Reg SOT-89	µA79M05CKTPR	2
µA78M33CDCYR	Positive-Voltage R	U7	Reg - SOT223	µA7805CKTER	1
µA78M05CDCYR	Positive-Voltage R	U8	Reg - SOT223	µA7805CKTER	1
TS27L4IN	Very Low-Power C	U9	DIP14	TS27L4AMD	1
TL074CNSR	Low-Noise JFET-Int	U10	DIP14	TL074J	1
TLC2274ACD	Very Low-Power C	U11, U13	SOIC14	TS27L4AMD	2
TL074CN	Low-Noise JFET-Int	U12, U14	DIP14	TL074J	2