
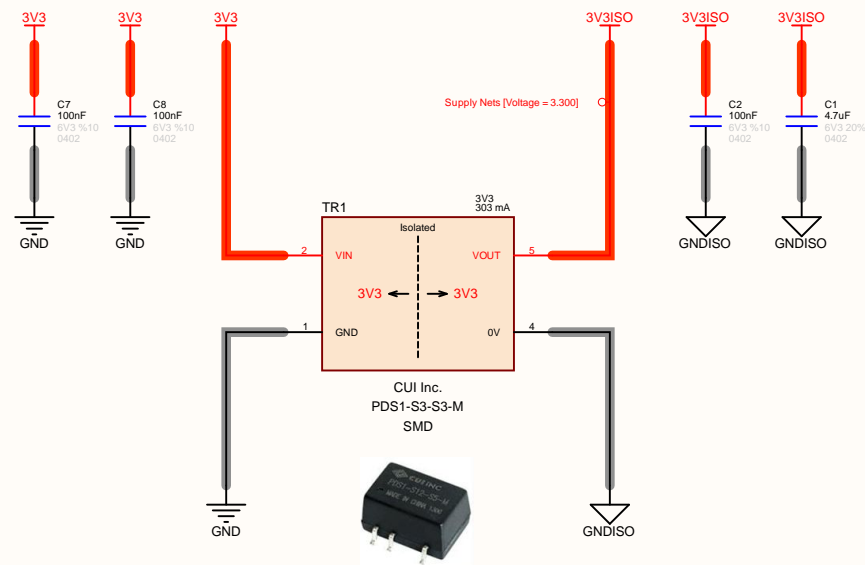



Card Edge Connector				Engineer : Gunce Akkoyun	- Buyuk Kayacik Mah. 4. OSB 103. Cad. No : 12 Selcuklu / Konya Türkiye	
				Customer : -		
Size : A4		Project : PollyPhase Energy Analyzer		Product ID : B202AA-PCiE		
				Module ID : B202AA-PCiE		
Date : 21.03.2023		Time : 14:44:52		Version : R1		
		Page : 2 / 8		Revision : 00.00.01		
File : Card Edge Connector.SchDoc						

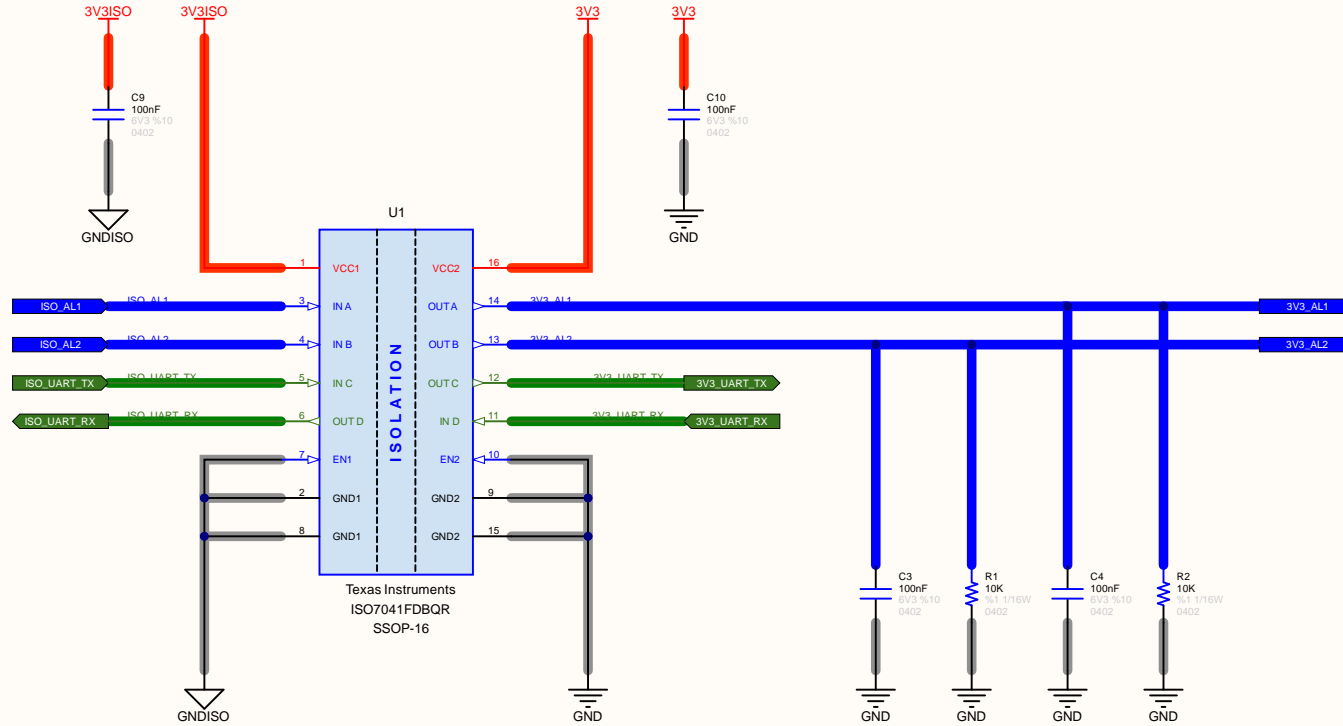
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Engineer contact : akkoyun@me.com


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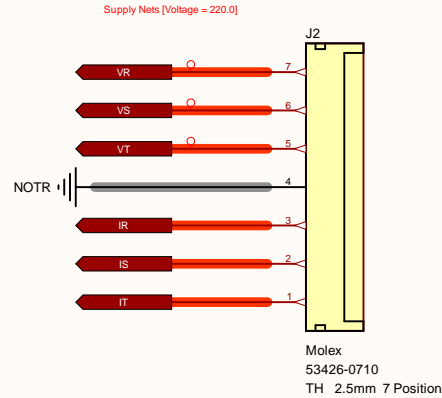
Power Isolation			Engineer : Gunce Akkoyun	- Buyuk Kayacik Mah. 4. OSB 103. Cad. No : 12 Selcuklu / Konya Türkiye	
Size : A4		Project : PollyPhase Energy Analyzer	Customer : -		
Date : 21.03.2023			Product ID : B202AA-PCle		
Time : 14:44:52		Module ID : B202AA-PCle			
Page : 3 / 8		Version : R1			
File : Power Isolation.SchDoc			Revision : 00.00.01		




UART & Signal Isolation			Engineer : Gunce Akkoyun	- Buyuk Kayacik Mah. 4. OSB 103. Cad. No : 12 Selcuklu / Konya Türkiye	
			Customer : -		
Size : A4	Project : PolyPhase Energy Analyzer		Product ID : B202AA-PCle		
			Module ID : B202AA-PCle		
Date : 21.03.2023	Time : 14:44:52	Page : 4 / 8	Version : R1		
File : Signal Isolation.SchDoc			Revision : 00.00.01		

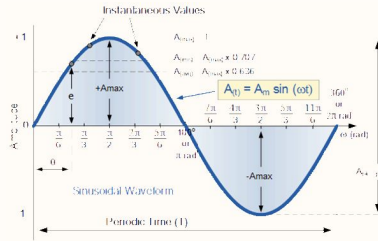
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Energy Inputs			Engineer : Gunce Akkoyun	- Buyuk Kayacik Mah. 4. OSB 103. Cad. No : 12 Selcuklu / Konya Türkiye	
			Customer : -		
Project : PollyPhase Energy Analyzer			Product ID : B202AA-PCle		
			Module ID : B202AA-PCle		
Date : 21.03.2023			Version : R1		
Time : 14:44:52			Revision : 00.00.01		
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File : Energy Inputs.SchDoc					



$V_{rms} = 220V$
 $V_{max} = V_{rms} / 0.707 = 312V$
 $V_{pk-pk} = 624V$

$V_{max} = 312V$
 $R1 = 2000K$
 $R2 = 750R$
 $V_{out} = (V_{in} \times R2) / (R1 + R2)$
 $V_{out} = (312 \times 750) / (2000000 + 750)$
 $V_{out} = 0V117$

max : 160 μA
max : 48.65 mW

$V_{out_max} = 117mV$

MAX78630 Vin Range = -250mV - + 250mV
Module Max Input Range = 667V pk-pk
Module Max Input Range = 471Vrms

Voltage Divider Resistors

Filter Capacitors

Filter Capacitors

$F = 50Hz$
Impedance = 31831R
 $I_{c_max} = 3.68 \mu A$

$F = 50Hz$
Impedance = 3183099R
 $I_{c_max} = 0.0368 \mu A$

3 Phase Voltage Dividers

Size : A4
Date : 21.03.2023
File : Phase Voltage Dividers.SchDoc

Project : PollyPhase Energy Analyzer
Time : 14:44:52
Page : 6 / 8

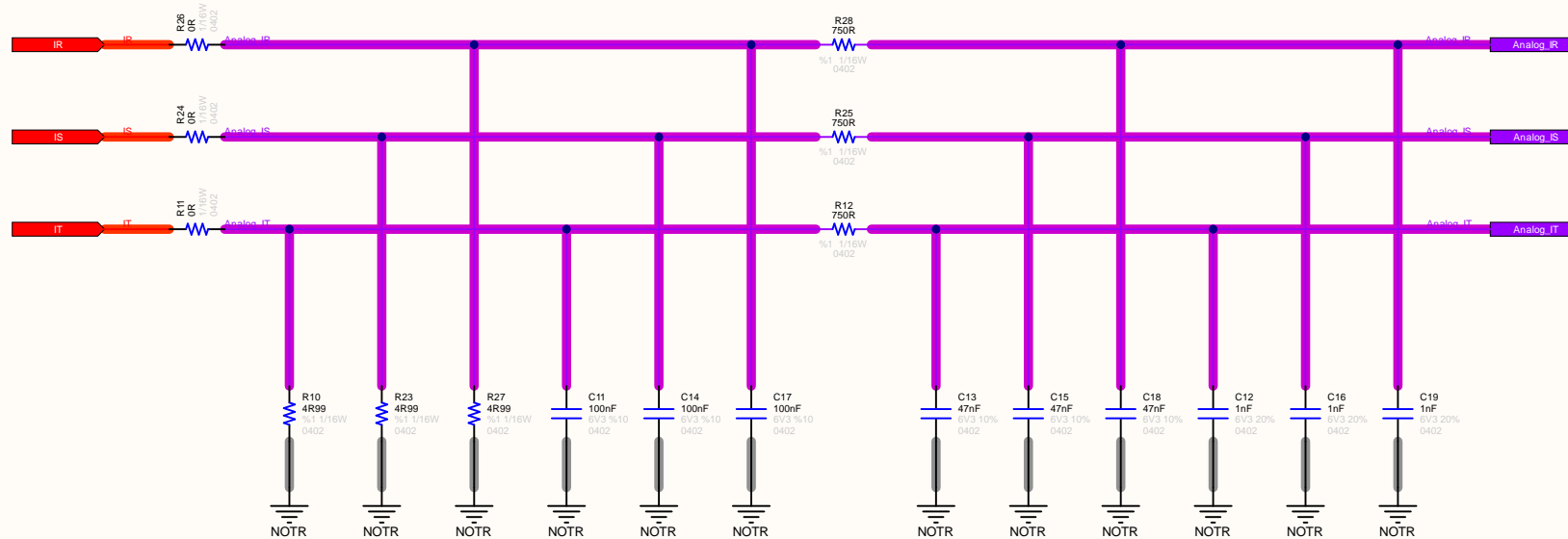
Engineer : Güne Akkoyun
Customer : -
Product ID : B202AA-PCle
Module ID : B202AA-PCle
Version : R1
Revision : 00.00.01

Büyük Kayacık Mah. 4. OSB
103. Cad. No : 12
Selçuklu / Konya Türkiye


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3 Phase Current Voltage Dividers			Engineer : Gunce Akkoyun	- Buyuk Kayacik Mah. 4. OSB 103. Cad. No : 12 Selcuklu / Konya Türkiye	
			Customer : -		
Size : A4	Project : PollyPhase Energy Analyzer		Product ID : B202AA-PCle		
			Module ID : B202AA-PCle		
Date : 21.03.2023	Time : 14:44:52	Page : 7 / 8	Version : R1		
File : Current Voltage Dividers.SchDoc			Revision : 00.00.01		

