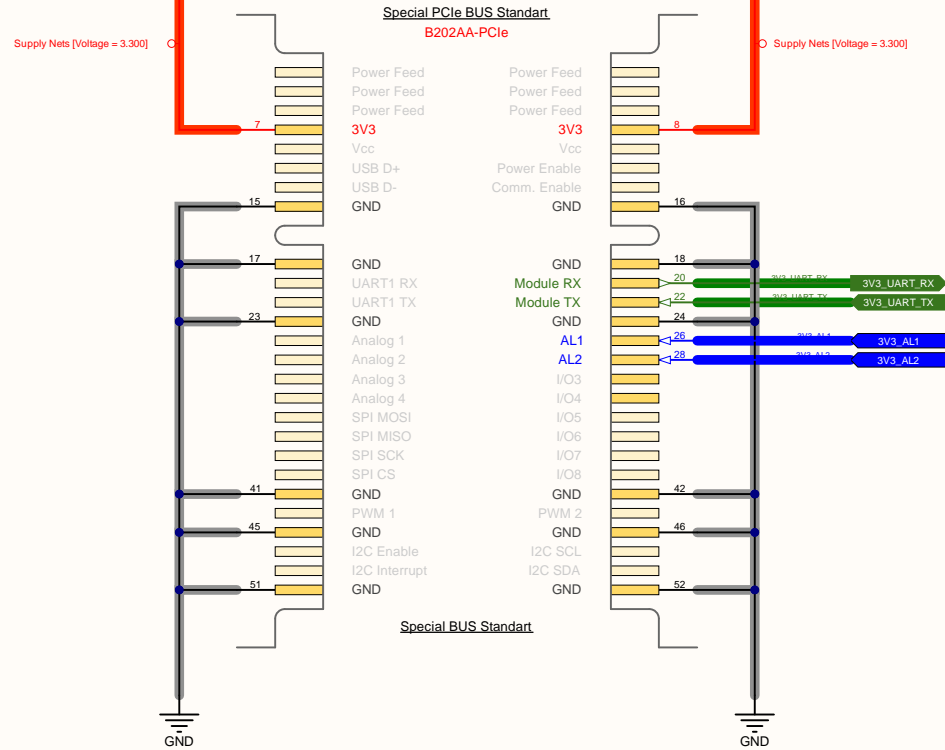



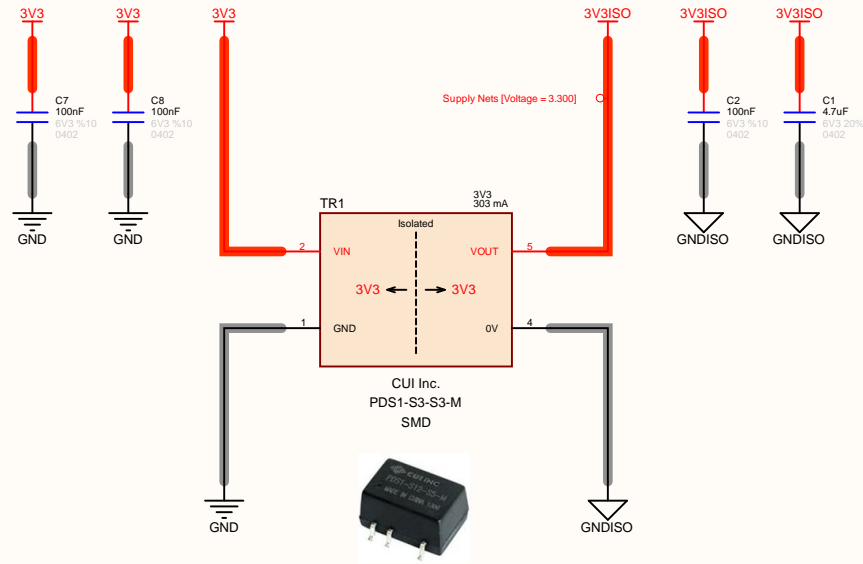
J1  
Bus Type : Mini PCI Express  
Mating Connector : TE 2041262-1  
Pitch : 0.8 mm  
Number of Positions : 52



Card Edge Connector			Engineer : Güncce Akkoyun	-	Buyuk Kayacik Mah. 4. OSB 103. Cad. No : 12 Selcuklu / Konya Türkiye	
Size : A4	Project : PollyPhase Energy Analyzer		Customer : -	Product ID : B202AA-PCIe		
Date : 21.03.2023	Time : 13:42:55	Page : 2 / 8	Module ID : B202AA-PCIe	Version : R1		
File : Card Edge Connecgtor.SchDoc			Revision : 00.00.01			

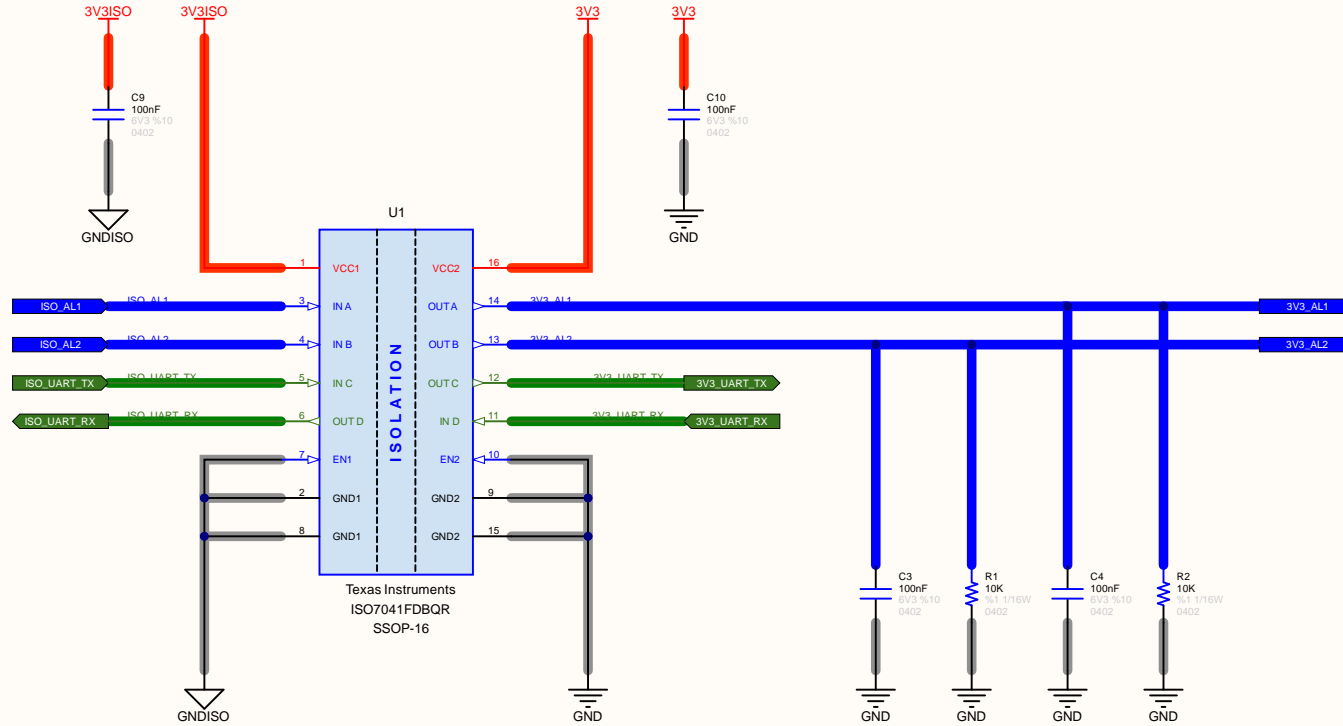
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Engineer contact : akkoyun@me.com


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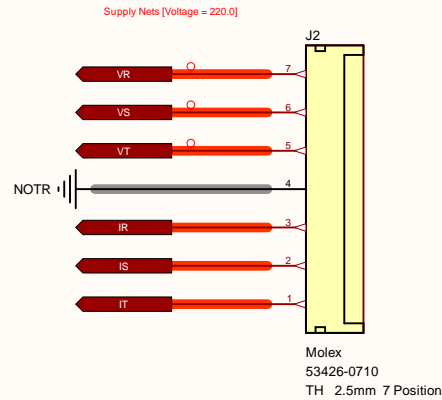
Power Isolation			Engineer : <span>Gunce Akkoyun</span>	<div>-</div> <div>Buyuk Kayacik Mah. 4. OSB</div> <div>103. Cad. No : 12</div> <div>Selcuklu / Konya Türkiye</div>	<div>stf</div>
Size : <span>A4</span>		Project : <span>PollyPhase Energy Analyzer</span>	Customer : <span>-</span>		
Date : <span>21.03.2023</span>		Time : <span>13:42:55</span>	Product ID : <span>B202AA-PCle</span>		
File : <span>Power Isolation.SchDoc</span>		Page : <span>3 / 8</span>	Module ID : <span>B202AA-PCle</span>		
			Version : <span>R1</span>		
			Revision : <span>00.00.01</span>		




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 : 13:42:55	Page : 4 / 8	Version : R1		
File : Signal Isolation.SchDoc			Revision : 00.00.01		

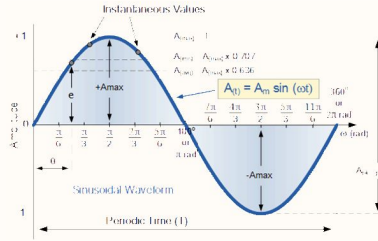
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Engineer contact : akkoyun@me.com

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www.github.com/akkoyun/B202AA-PCle

Energy Inputs			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 : 13:42:55	Page : 5 / 8	Version : R1		
File : Energy Inputs.SchDoc			Revision : 00.00.01		



Vrms = 220V  
Vmax = Vrms / 0.707 = 312V  
Vpk-pk = 624V

Vmax = 312V  
R1 = 2000K  
R2 = 750R  
Vout = (Vin x R2) / (R1 + R2)  
Vout = (312 x 750) / (2000000 + 750)  
Vout = 0V117

max : 160  $\mu$ A  
max : 48.65 mW

Vout\_max = 117mV

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


Voltage Divider Resistors

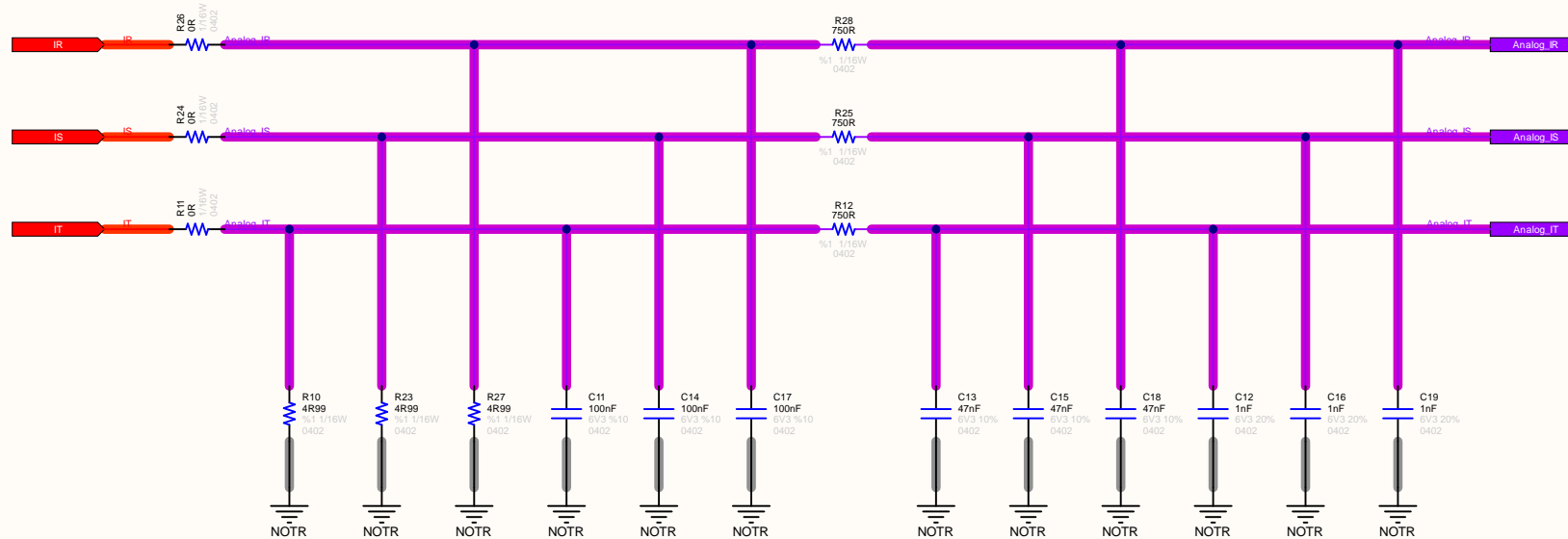
Filter Capacitors


Filter Capacitors

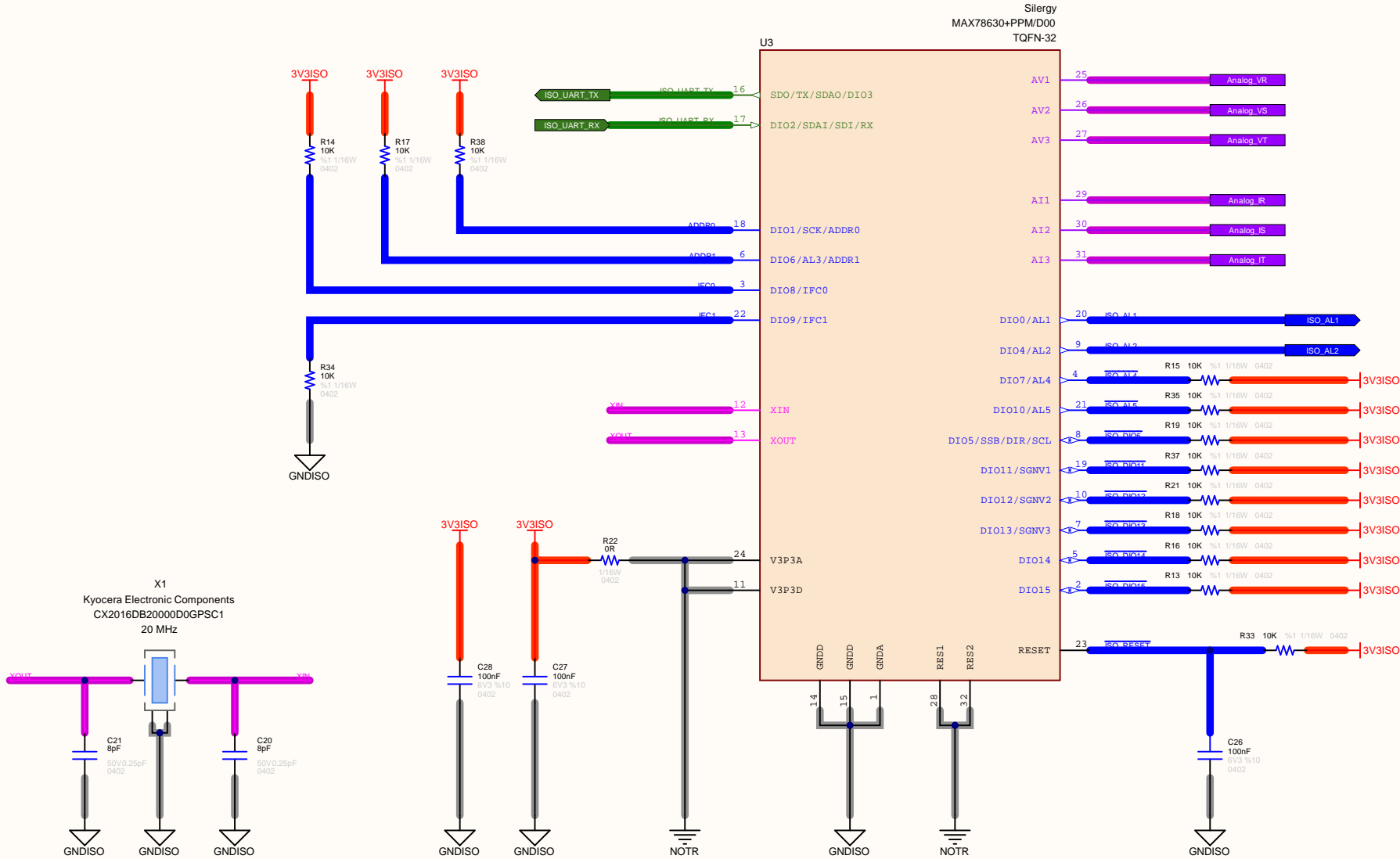
F = 50Hz  
Impedance = 31831R  
Ic\_max : 3.68  $\mu$ A


F = 50Hz  
Impedance = 3183099R  
Ic\_max : 0.0368  $\mu$ A

3 Phase Voltage Dividers				Engineer : Guncce Akkoyun	- Buyuk Kayacik Mah. 4. OSB 103. Cad. No : 12 Selcuklu / Konya Türkiye	
Size : A4				Customer : -		
Project : PollyPhase Energy Analyzer				Product ID : B202AA-PCle		
Date : 21.03.2023				Module ID : B202AA-PCle		
Time : 13:42:55				Version : R1		
Page : 6 / 8				Revision : 00.00.01		
File : Phase Voltage Dividers.SchDoc						



3 Phase Current Voltage Dividers			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	Time : 13:42:55	Page : 7 / 8	Product ID : B202AA-PCle		
File : Current Voltage Dividers.SchDoc			Module ID : B202AA-PCle		
			Version : R1		
			Revision : 00.00.01		



MAX78630 SOC Core				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		Time : 13:42:55		Product ID : B202AA-PCle		
File : MAX78630 SOC.SchDoc		Page : 8 / 8		Module ID : B202AA-PCle		
				Version : R1		
				Revision : 00.00.01		