
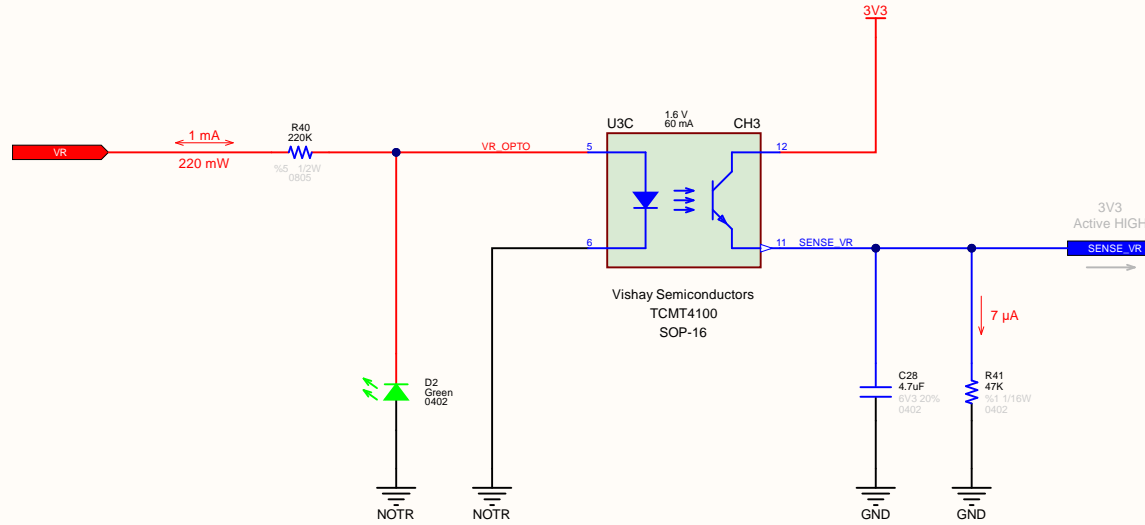
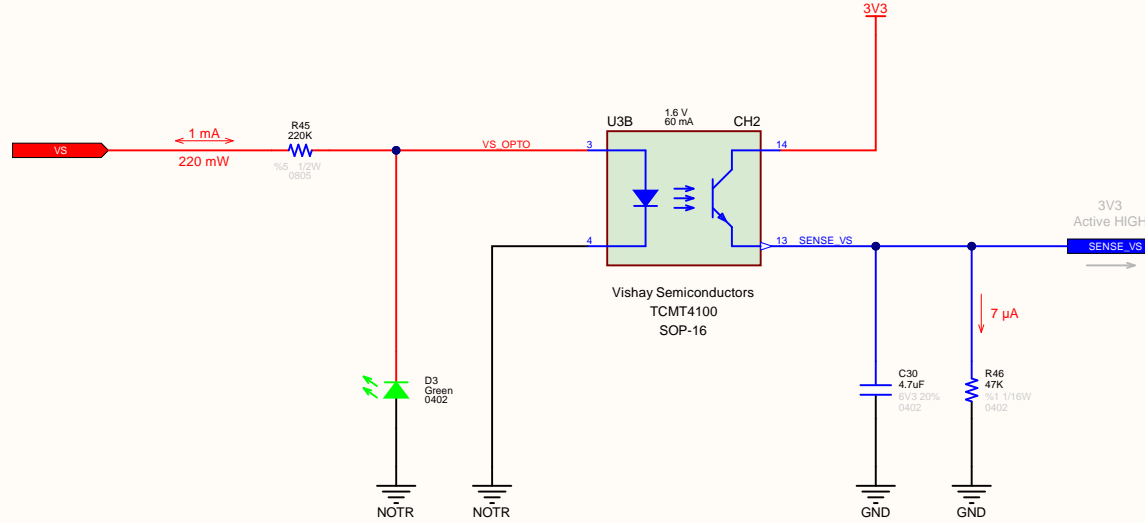



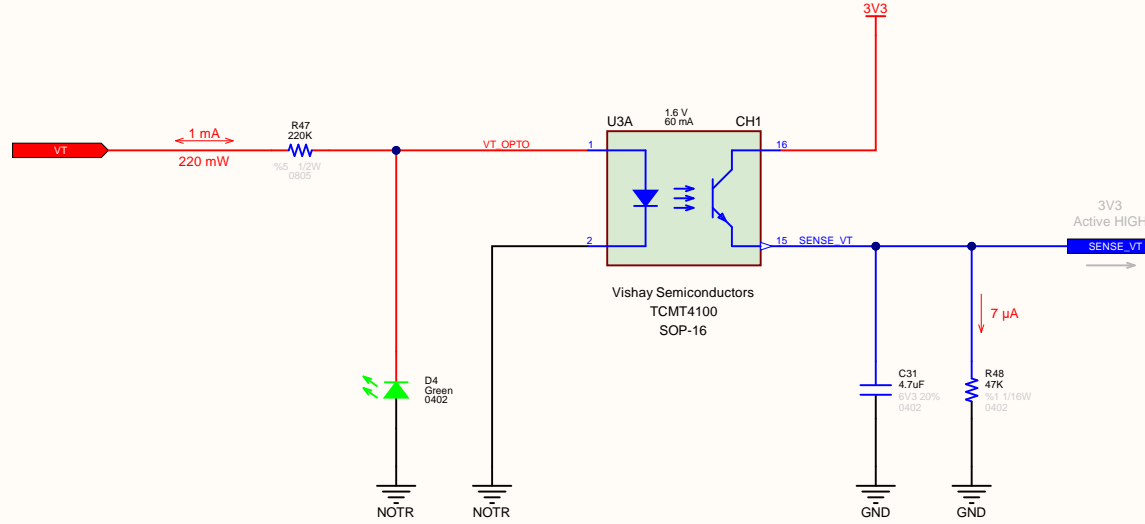
Card Edge Connector			Engineer : Gunce Akkoyun	STF Res-Dev Buyuk Kayacik Mah. 4. OSB 103. Cad. No : 12 Selcuklu / Konya Türkiye	
Size : A4		Project : PowerStat	Customer : STF Irrigation		
Date : 5.10.2022		Time : 15:31:53	Product ID : --		
File : Card Edge Connector.SchDoc		Page : 2 / 16	Module ID : B202AA-PCIe		
			Version : R1		
			Revision : 00.00.01		




R Phase Sense Signal Isolation			Engineer : Güne Akkoyun	STF Res-Dev Buyuk Kayacik Mah. 4. OSB 103. Cad. No : 12 Selcuklu / Konya Türkiye	
Size : A4			Customer : STF Irrigation		
Date : 5.10.2022			Product ID : --		
Time : 15:31:53			Module ID : B202AA-PCIe		
Page : 3 / 16			Version : R1		
File : R Phase Sense Signal Isolation.SchDoc			Revision : 00.00.01		



S Phase Sense Signal Isolation			Engineer : Gunce Akkoyun	STF Res-Dev Buyuk Kayacik Mah. 4. OSB 103. Cad. No : 12 Selcuklu / Konya Türkiye	
			Customer : STF Irrigation		
Size : A4	Project : PowerStat		Product ID : --		
			Module ID : B202AA-PCle		
Date : 5.10.2022	Time : 15:31:53	Page : 4 / 16	Version : R1		
File : S Phase Sense Signal Isolation.SchDoc			Revision : 00.00.01		



T Phase Sense Signal Isolation			Engineer : Gunce Akkoyun	STF Res-Dev Buyuk Kayacik Mah. 4. OSB 103. Cad. No : 12 Selouklu / Konya Türkiye	
Size : A4		Project : PowerStat	Customer : STF Irrigation		
Date : 5.10.2022	Time : 15:31:53	Page : 5 / 16	Product ID : --		
File : T Phase Sense Signal Isolation.SchDoc			Module ID : B202AA-PCle		
			Version : R1		
			Revision : 00.00.01		

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Engineer contact : akkoyun@me.com

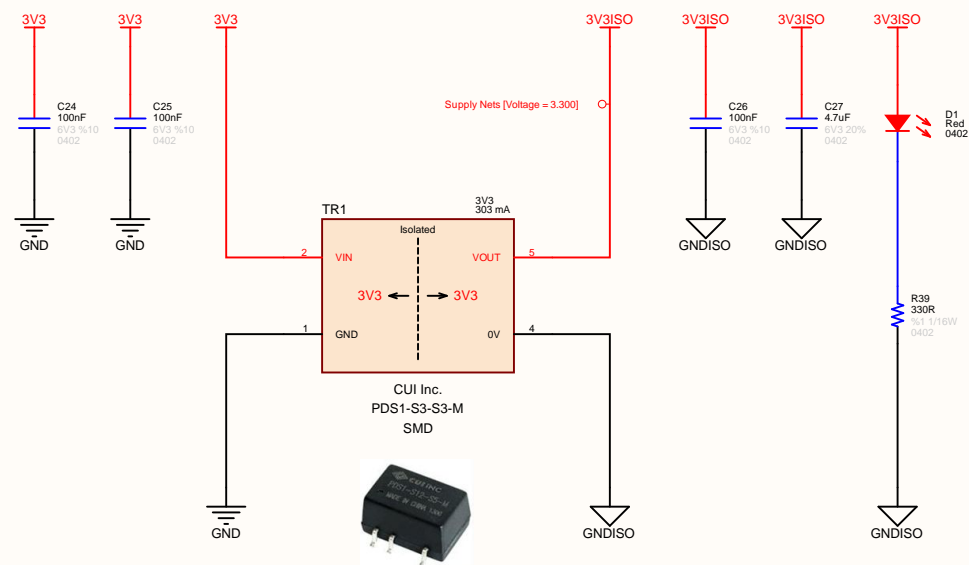
Property of STF Irrigation

A


B

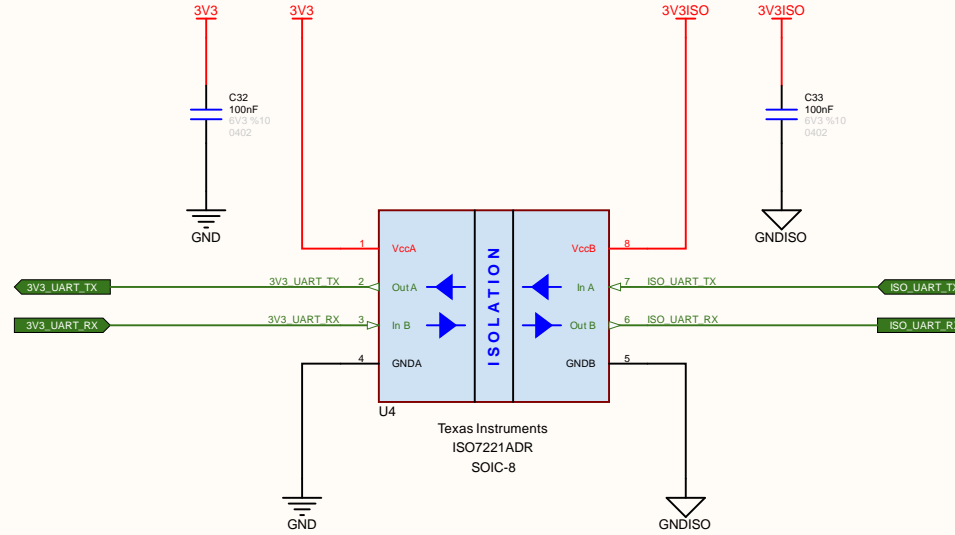
C


D

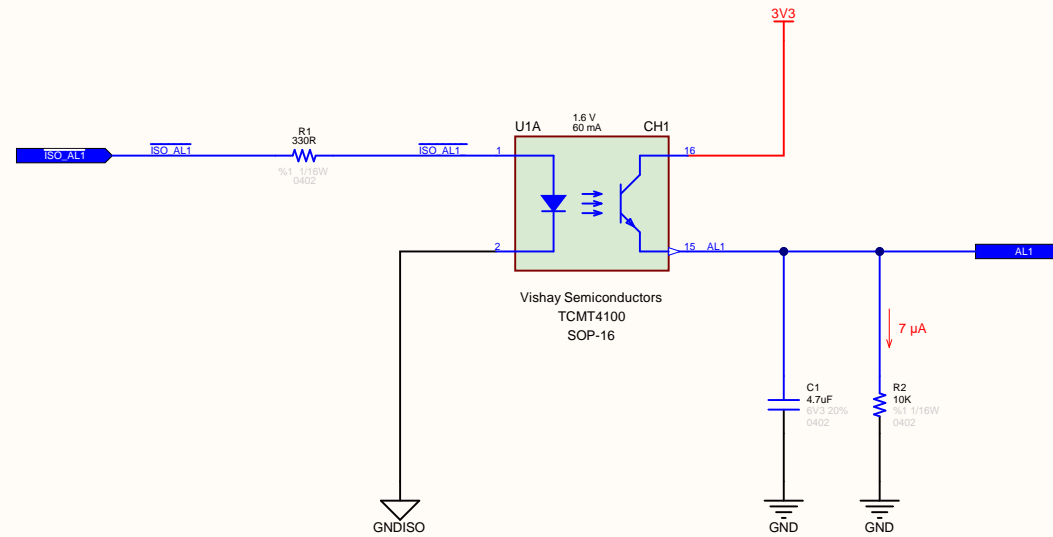



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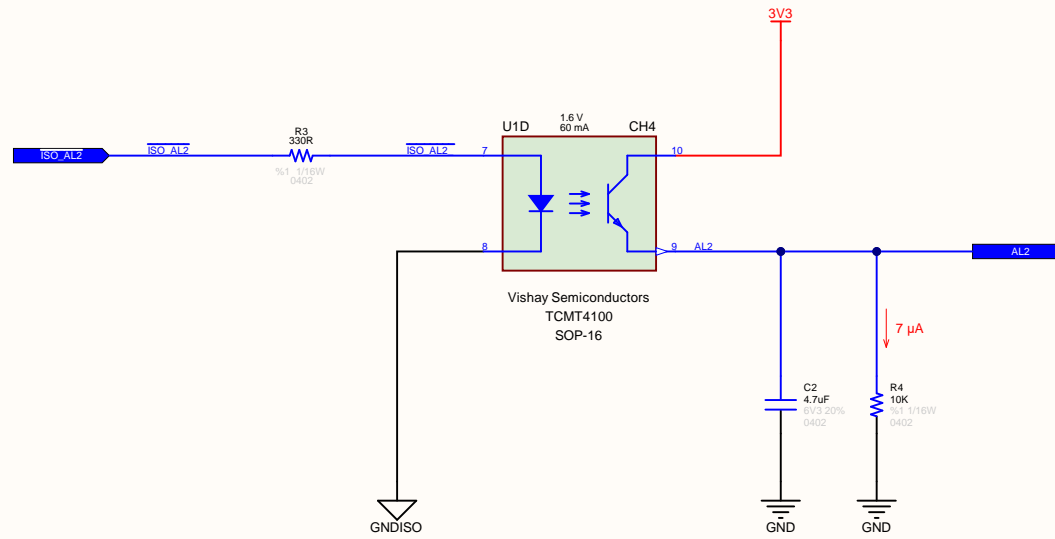
Power Isolation			Engineer : Gunce Akkoyun	STF Res-Dev Buyuk Kayacik Mah. 4. OSB 103. Cad. No : 12 Selcuklu / Konya Türkiye	
			Customer : STF Irrigation		
Size : A4	Project : PowerStat		Product ID : --		
Date : 5.10.2022	Time : 15:31:53	Page : 6 / 16	Module ID : B202AA-PCIe		
File : Power Isolation.SchDoc			Version : R1		
			Revision : 00.00.01		




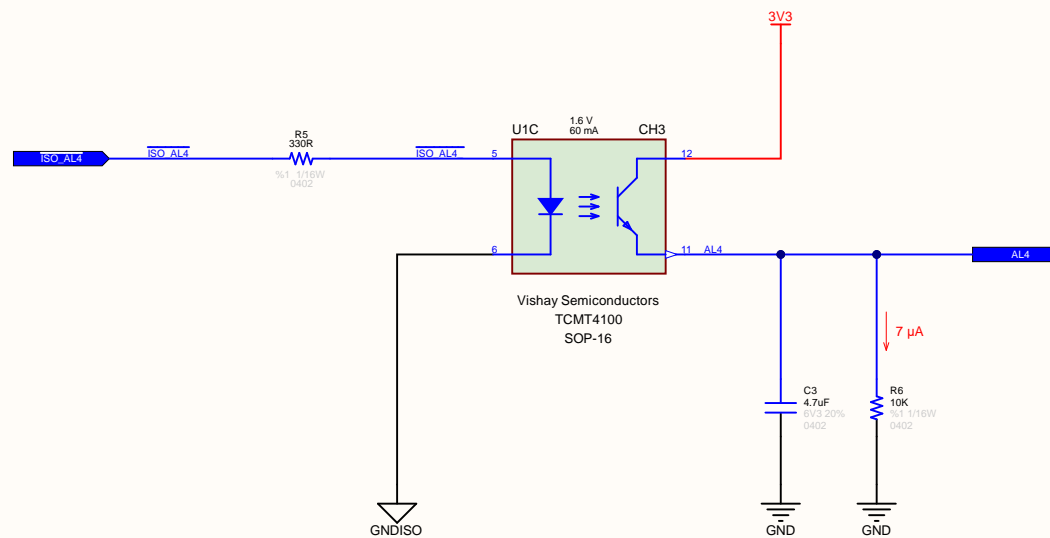
UARTIsolation			Engineer : Güne Akkoyun	STF Res-Dev Buyuk Kayacik Mah. 4. OSB 103. Cad. No : 12 Selcuklu / Konya Türkiye	
Size : A4			Customer : STF Irrigation		
Project : PowerStat			Product ID : --		
Date : 5.10.2022			Module ID : B202AA-PCIe		
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Page : 7 / 16			File : UART Comm Isolation.SchDoc	Revision : 00.00.01	




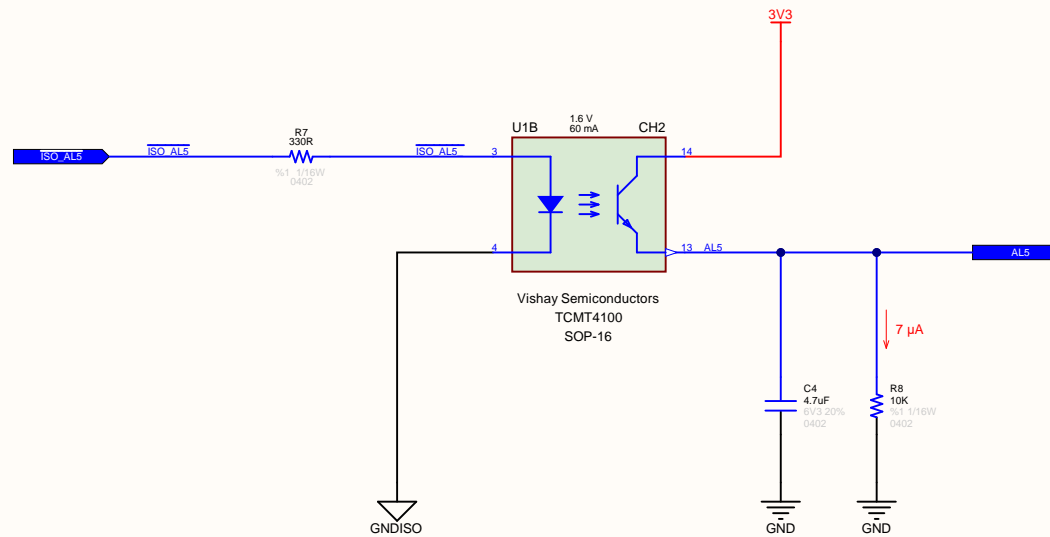
AL1 Signal Isolation			Engineer : Gunce Akkoyun	STF Res-Dev Buyuk Kayacik Mah. 4. OSB 103. Cad. No : 12 Selcuklu / Konya Türkiye	
Size : A4	Project : PowerStat		Customer : STF Irrigation		
Date : 5.10.2022	Time : 15:31:53	Page : 8 / 16	Product ID : --		
File : AL1 Signal Isolation.SchDoc			Module ID : B202AA-PCIE		
			Version : R1		
			Revision : 00.00.01		




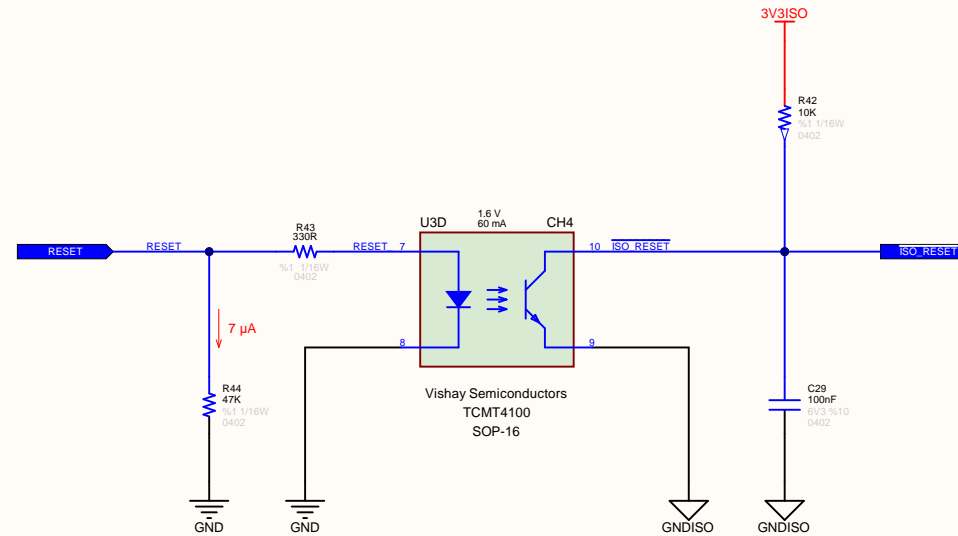
AL2 Signal Isolation			Engineer : Günc Akkoyun	STF Res-Dev Buyuk Kayacik Mah. 4. OSB 103. Cad. No : 12 Selcuklu / Konya Türkiye	
Size : A4	Project : PowerStat		Customer : STF Irrigation		
Date : 5.10.2022	Time : 15:31:53	Page : 9 / 16	Product ID : --		
File : AL2 Signal Isolation.SchDoc			Module ID : B202AA-PCIe		
			Version : R1		
			Revision : 00.00.01		




AL4 Signal Isolation				Engineer : Gunce Akkoyun	STF Res-Dev Buyuk Kayacik Mah. 4. OSB 103. Cad. No : 12 Selcuklu / Konya Türkiye	
Size : A4		Project : PowerStat		Customer : STF Irrigation		
Date : 5.10.2022		Time : 15:31:53		Product ID : --		
Page : 10 / 16				Module ID : B202AA-PCIe		
File : AL4 Signal Isolation.SchDoc				Version : R1		
					Revision : 00.00.01	



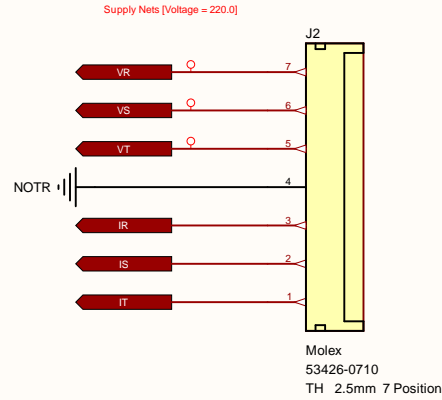
AL5 Signal Isolator			Engineer : Gunce Akkoyun	STF Res-Dev Buyuk Kayacik Mah. 4. OSB 103. Cad. No : 12 Selcuklu / Konya Türkiye	
Size : A4	Project : PowerStat		Customer : STF Irrigation		
Date : 5.10.2022	Time : 15:31:53	Page : 11 / 16	Product ID : --		
File : AL5 Signal Isolation.SchDoc			Module ID : B202AA-PCle		
			Version : R1		
			Revision : 00.00.01		




Reset Signal Isolator			Engineer : Gunce Akkoyun	STF Res-Dev Buyuk Kayacik Mah. 4. OSB 103. Cad. No : 12 Selcuklu / Konya Türkiye	
			Customer : STF Irrigation		
			Product ID : --		
			Module ID : B202AA-PCIe		
			Version : R1		
Date : 5.10.2022	Time : 15:31:53	Page : 12 / 16	Revision : 00.00.01		
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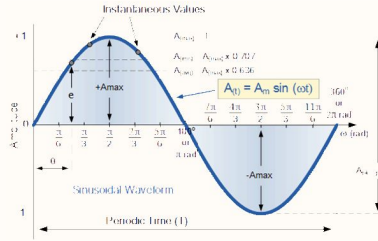
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Engineer contact : akkoyun@me.com

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Energy Inputs			Engineer : Gunce Akkoyun	STF Res-Dev Buyuk Kayacik Mah. 4. OSB 103. Cad. No : 12 Selcuklu / Konya Türkiye	
Size : A4		Project : PowerStat	Customer : STF Irrigation		
Date : 5.10.2022		Time : 15:31:53	Product ID : --		
File : Energy Inpts.SchDoc		Page : 13 / 16	Module ID : B202AA-PCle		
			Version : R1		
			Revision : 00.00.01		



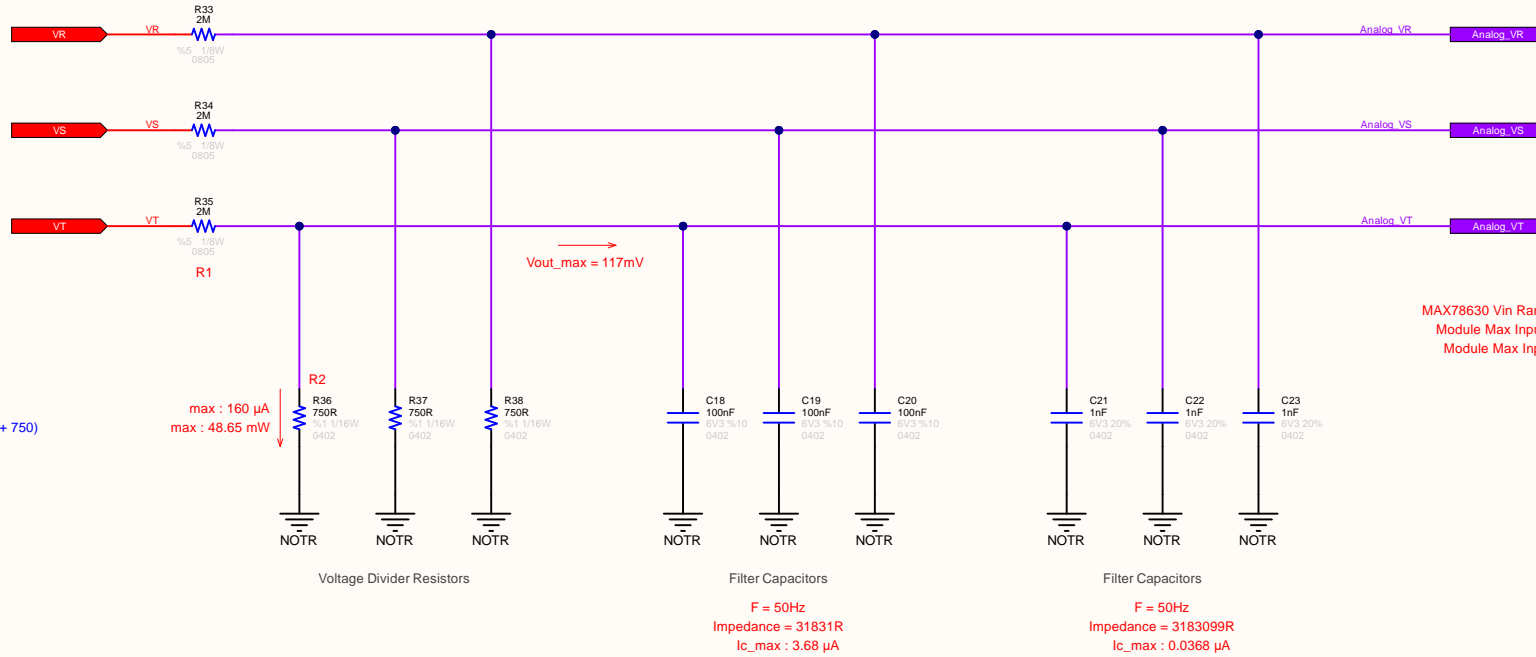
$V_{rms} = 220V$
 $V_{max} = V_{rms} / 0.707 = 312V$
 $V_{pk-pk} = 624V$


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

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



3 Phase Voltage Dividers			Engineer : Gunce Akkoyun	STF Res-Dev Buyuk Kayacik Mah. 4. OSB 103. Cad. No : 12  Selcuklu / Konya Türkiye
			Customer : STF Irrigation	
			Product ID : --	
			Module ID : B202AA-PCle	
			Version : R1	
			Revision : 00.00.01	
File : Phase Voltage Dividers.SchDoc				
Size : A4	Project : PowerStat			
Date : 5.10.2022	Time : 15:31:53	Page : 14 / 16		

