

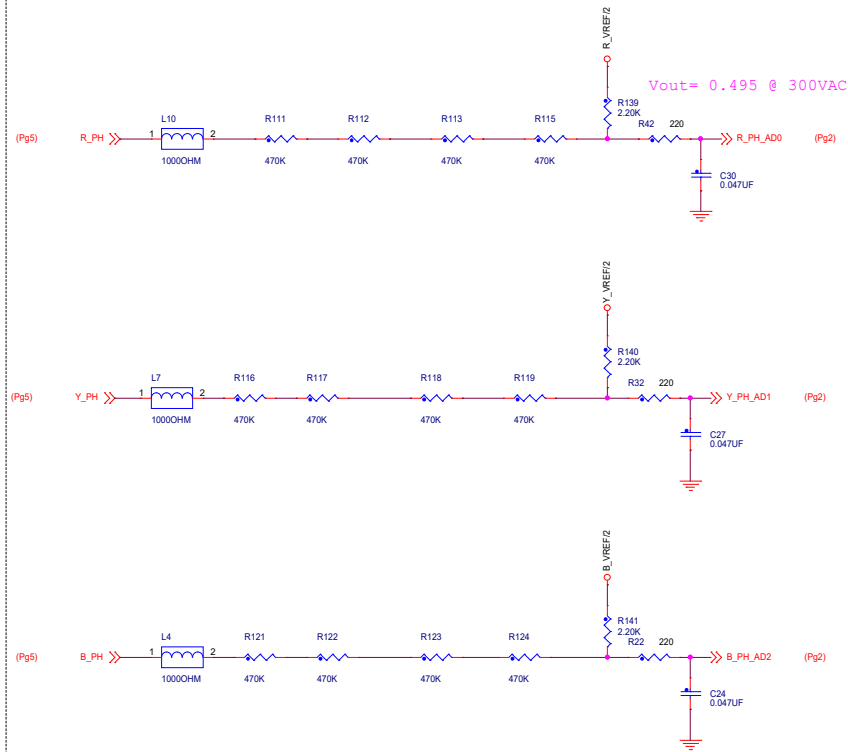
Revisions			
Rev	Description	Date	Designer
0.3	Initial Release	25-11-20	BL
1.0	Final Release	18-01-21	BL
1.1	MAINS_ON moved to LLWU pin. Cover Open circuit updated.	01-10-21	BL

Note:
>Push Button (UP_SCROLL) and MAINS_ON nets
has to be LLWU Pxx pin type only,
>Contact us before changing ADC, I2C and JTAG
pins,
>LCD pin change allowed only in between LCD
pins only.
>Separate I2C module used for Magnetic Sensor
(3D Hall Sensor)
>We also recommend not to change UARTs but
yes you can change functionality ex; Optical
to RF vice versa.
>Rest all GPIOs you can swap as per your PCB
component placement.

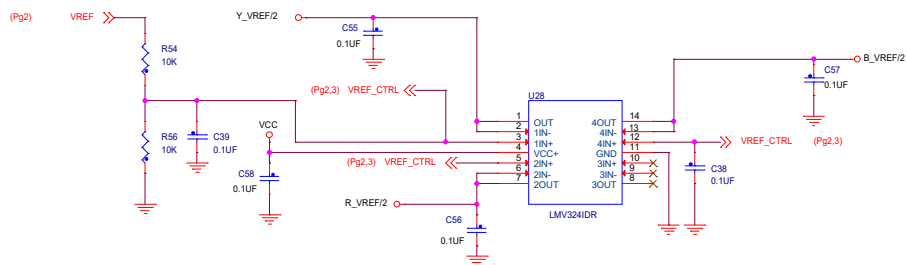
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Designer: Barwari Lal	Drawing Title: PKM35Z512VLL7_3PHSM		
Drawn by: Barwari Lal	Page Title: 00_Title		
Approved: Kamli & Bhanuath	Size C	Document Number <Doc>	Rev 1.1
Date: Tuesday, October 05, 2021		Sheet 1	of 5

C NXP SEMICONDUCTORS Designer: Baranwalal		Classification: <FCP> <FIJG> <PUBI> Drawing Title: PKM35Z512VLL7_3PHSM	
Drawn by: Baranwalal		Page Title: 01_MCU	
Approved: Kamil & Bhanuath		Size C Document Number <Doc>	Rev 1.1
Date Tuesday, October 05, 2021		Sheet 2 of 5	

Voltage inputs

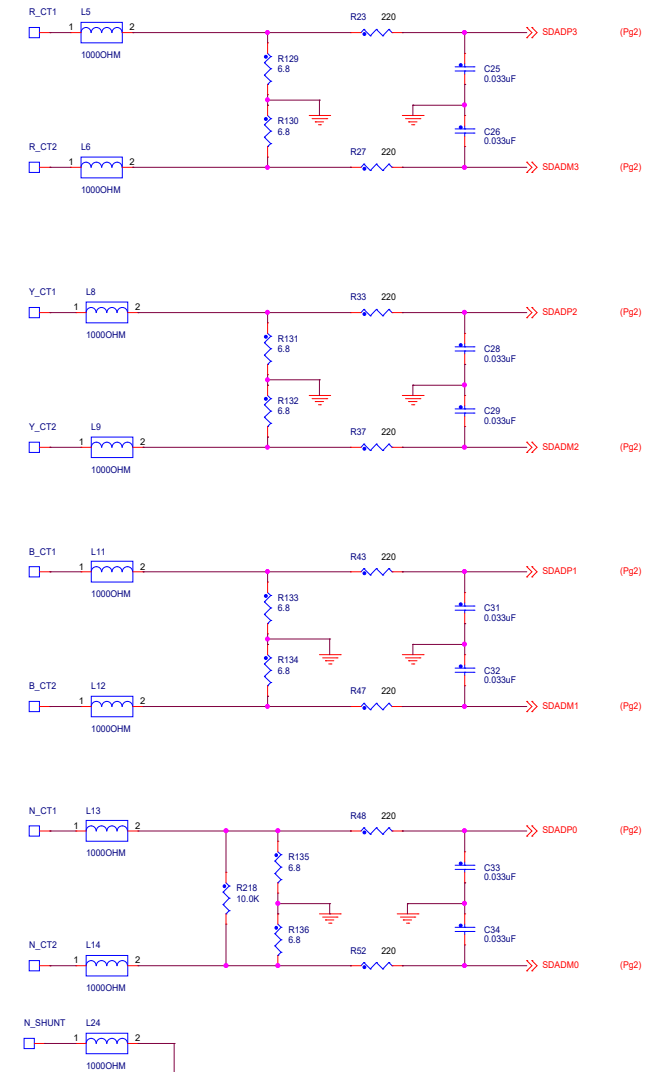


Vref/2




Current inputs

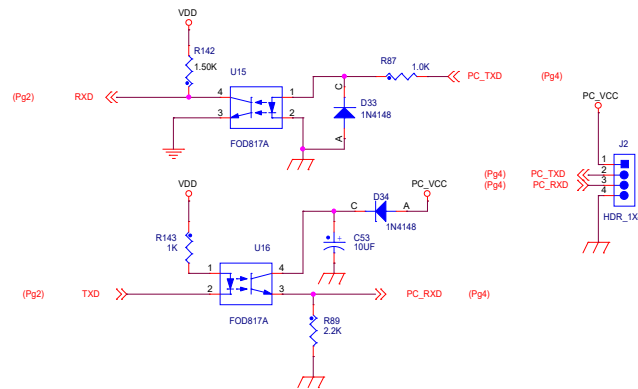
CT=2500T



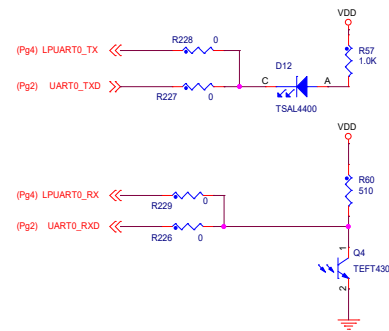
Note: R218 provided as an option for Current sense through Shunt. DNP for CT.

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Designer: Baranwal	Drawing Title: PKM35Z512VLL7_3PHSM		
Drawn by: Baranwal	Page Title: 02_Analog		
Approved: Karthi & Biswanath	Size C	Document Number <Doc>	Rev 1.1
Date: Tuesday, October 05, 2021		Sheet 3 of 5	

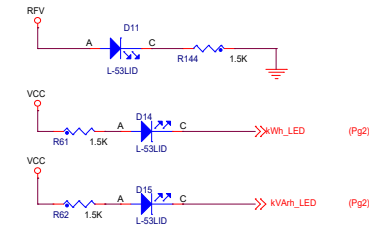
RS232 COMM



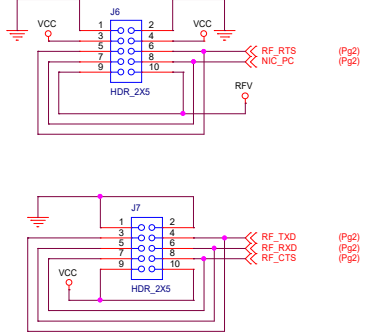
IR interface



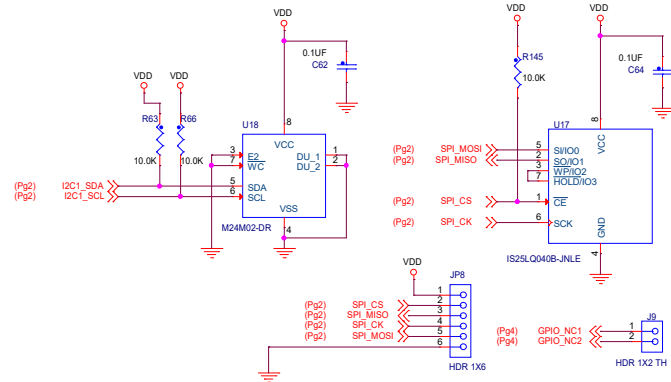
LED outputs



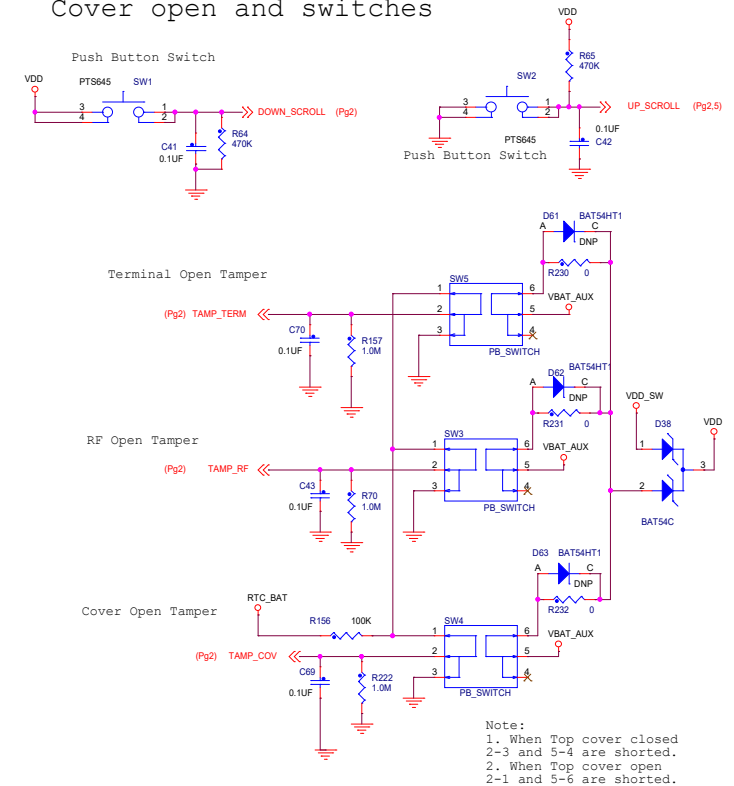
NIC CARD INTERFACE



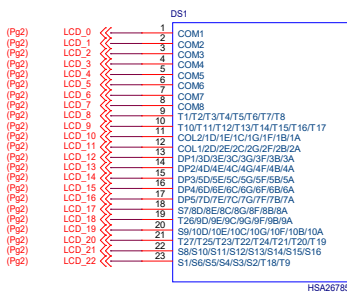
MEMORY



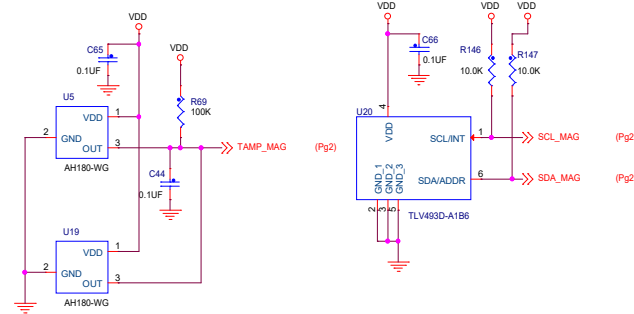
Cover open and switches



LCD



Magnetic Field Tamper sensor



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3 PHASE SMPS POWER SUPPLY

