

A

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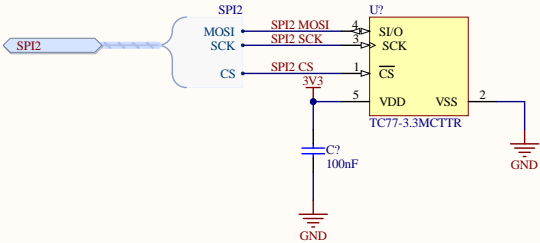
A

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May be best to switch to analog to reduce number of pins required for connector



Revision History:

Rev	Date	Description

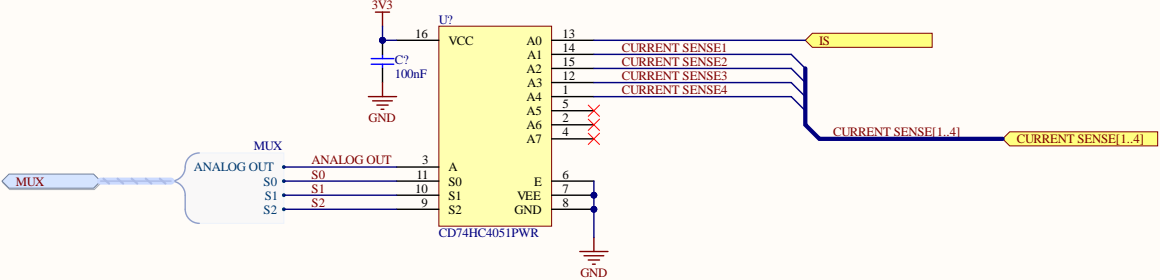
Sheet Title: Temperature Sensor		
Project: Power Distribution Module Card		QUT Motorsport O-120, Gardens Point 2 George Street Brisbane, QLD 4000 Australia
Size: A3	Number: #####	
Drawn By: Zoe Goodward	Version: 01	
Print Date: 24/07/2020 Print Time: 2:21:33 PM	Revision: 01	
Sheet 1 of 1		QUT MOTORSPORT

8 IS lines
30 Independent current sense lines

Options for IS:
8 lines straight back to mcu
1x8 channel multiplexer, then back to mcu


Options for CS:
30 lines coming off all cards go into 2x16 channel multiplexers, then to mcu
4 lines on card are multiplexed coming out to one line, these 8 lines go back to mcu

Options for CS and IS:
5 lines on card multiplexed, then going back into the mcu



Revision History:

Rev	Date	Description

Sheet Title: Sense Multiplexing				
Project: Power Distribution Module Card			QUT Motorsport O-120, Gardens Point 2 George Street Brisbane, QLD 4000 Australia	
Size: A3	Number: #####	Version: 01	Revision: 01	
Drawn By: Zoe Goodward		Sheet 1 of 1		
Print Date: 24/07/2020 Print Time: 2:21:33 PM		File Name: PDMC-S01-V00-Interface.SchDoc		



1	2	3	4	5	6	7	8
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A

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A

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- FID1




Fiducial 1MM
- M1




Hole M3 Tight Unplated
- FID2




Fiducial 1MM
- M2




Hole M3 Tight Unplated
- FID3




Fiducial 1MM
- M3



Hole M3 Tight Unplated
- FID4



Fiducial 1MM
- M4

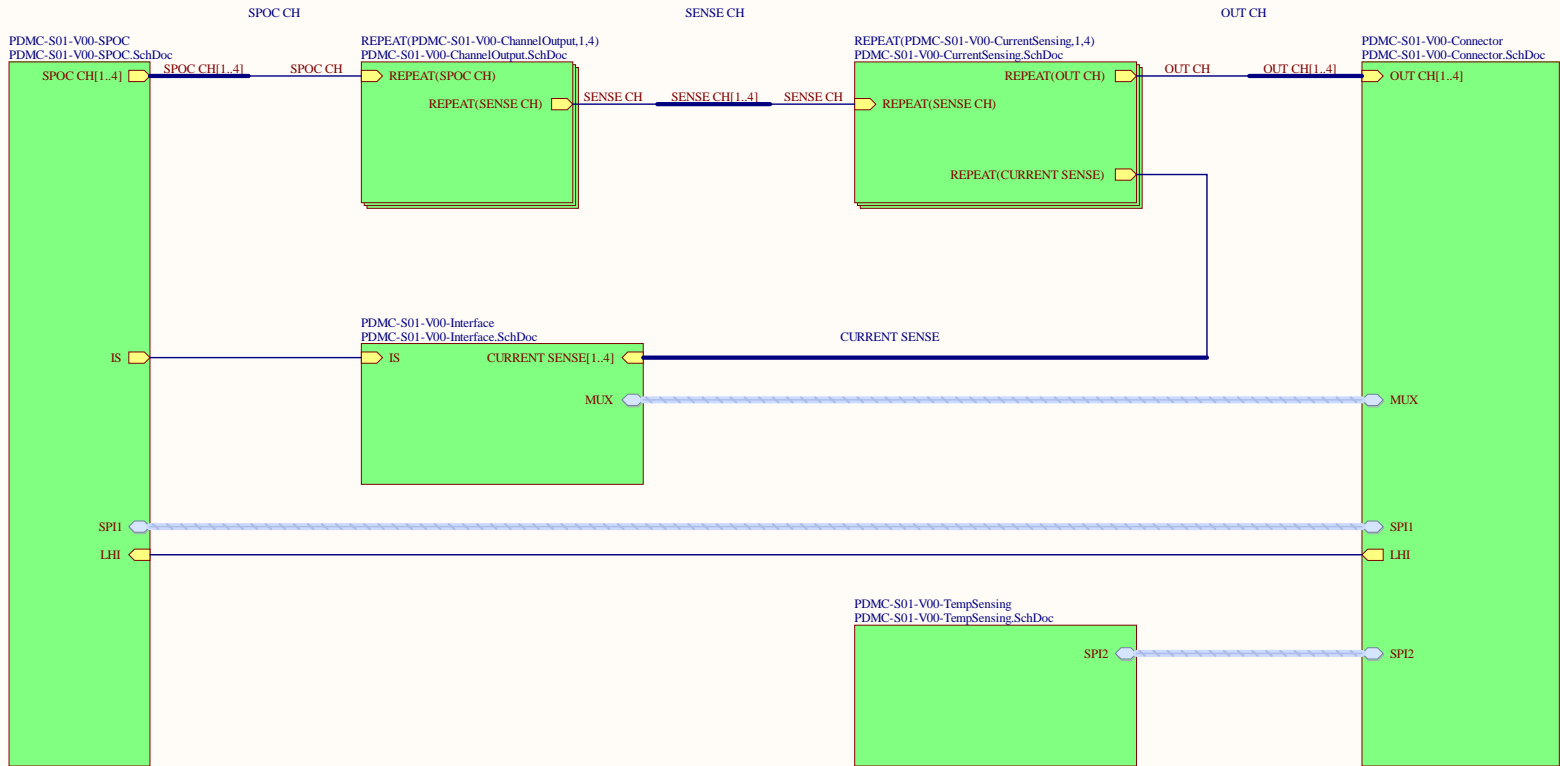


Hole M3 Tight Unplated

LYID1
2 Layer Identification PCB Marker


1

2



Revision History:

Rev	Date	Description

Sheet Title: PDMC Master						
Project: Power Distribution Module Card			QUT Motorsport O-120, Gardens Point 2 George Street Brisbane, QLD 4000 Australia			
Size: A3	Number: ####	Version: 01	Revision: 01			
Drawn By: Zoe Goodward		Sheet 1 of 1				
Print Date: 24/07/2020 Print Time: 2:21:34 PM		File Name: PDMC-S01-V00-PowerDistributionCard.SchDoc				

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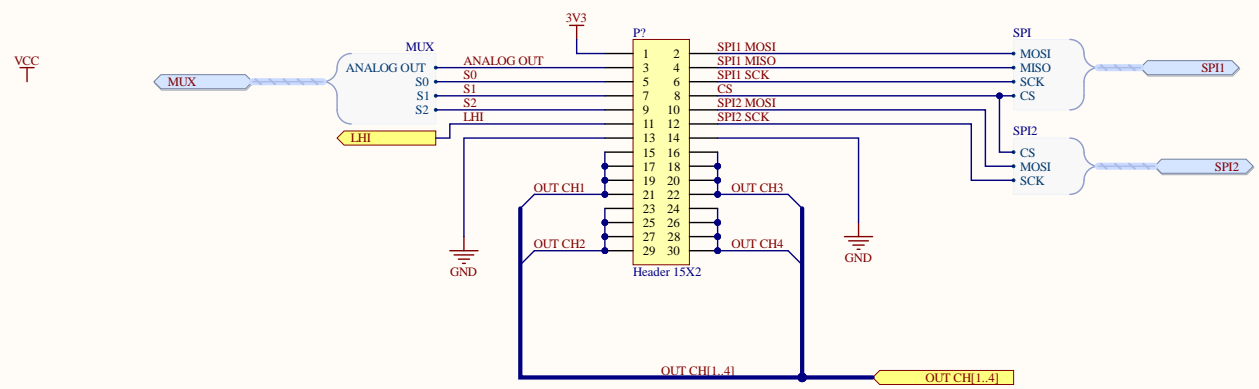
D

A

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Revision History:

Rev Date Description

Sheet Title: **Connector**

Project: **Power Distribution Module Card**

Size: A3

Drawn By: Zoe Goodward

Print Date: 24/07/2020 Print Time: 2:21:34 PM

Number: #####

Version: **01**

Revision: **01**

Sheet **1** of **1**

File Name: PDMC-S01-V00-Connector.SchDoc

QUT Motorsport
O-120, Gardens Point
2 George Street
Brisbane, QLD 4000
Australia



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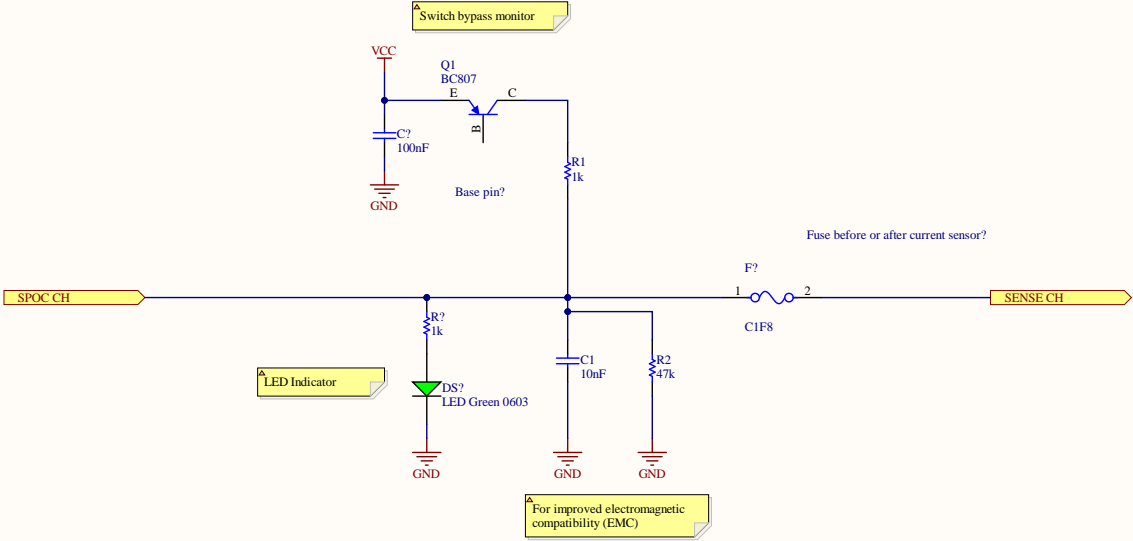
D

A

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Revision History:

Rev	Date	Description

Sheet Title: **Channel Output**

Project: **Power Distribution Module Card**

Size: A3

Number: #####

Drawn By: Zoe Goodward

Print Date: 24/07/2020 Print Time: 2:21:34 PM

Version: **01**

Revision: **01**

Sheet **1** of **1**

File Name: PDMC-S01-V00-ChannelOutput.SchDoc

QUT Motorsport
O-120, Gardens Point
2 George Street
Brisbane, QLD 4000
Australia



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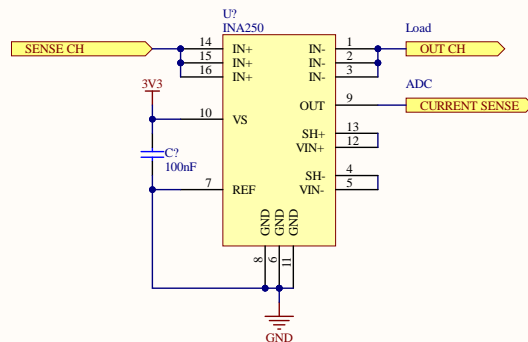
D

A

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D



Revision History:

Rev	Date	Description

Sheet Title: Current Sensing		
Project: Power Distribution Module Card		QUT Motorsport O-120, Gardens Point 2 George Street Brisbane, QLD 4000 Australia
Size: A3	Number: #####	Version: 01
Drawn By: Zoe Goodward		Revision: 01
Print Date: 24/07/2020 Print Time: 2:21:34 PM		Sheet * of *
File Name: PDMC-S01-V00-CurrentSensing.SchDoc		

