
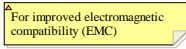


Revision History:

Rev	Date	Description

Sheet Title: PDMC Master				<div>QUT Motorsport O-120, Gardens Point 2 George Street Brisbane, QLD 4000 Australia</div> <div></div>	
Project: Power Distribution Module Card					
Size: A3 Number: 1		Version: 01			
Drawn By: Zoe Goodward		Revision: 01			
Print Date: 20/08/2020 Print Time: 1:50:17 PM		Sheet 1 of 6			
File Name: PDMC-S01-V00-PowerDistributionModuleCard.SchDoc					



Print Date: 20/08/2020 Print Time: 1:50:18 PM File Name: PDMC-S03-V00-ChannelOutput_SchDoc

A

B

C

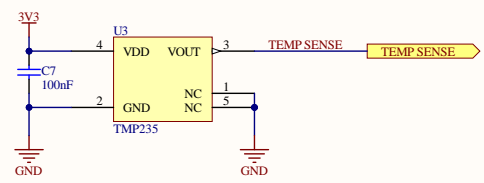
D

A

B

C

D



Revision History:

Rev	Date	Description

Sheet Title: **Temperature Sensor**

Project: **Power Distribution Module Card**

Size: A3

Number: **4**

Version: **01**

Revision: **01**

Drawn By: Zae Goodward

Print Date: 20/08/2020 Print Time: 1:50:18 PM

File Name: PDMC-S04-V00-TempSensor.SchDoc

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



1

2

3

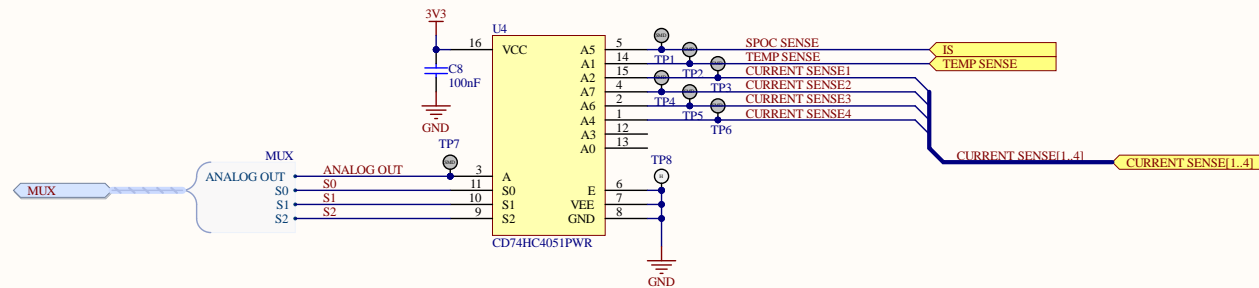
4

5

6

7

8



Revision History:

Rev	Date	Description

Sheet Title: **Sense Multiplexing**

Project: **Power Distribution Module Card**

Size: A3 Number: **5**

Drawn By: Zoe Goodward

Print Date: 20/08/2020 Print Time: 1:50:18 PM

Version: **01**

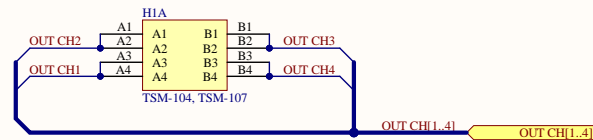
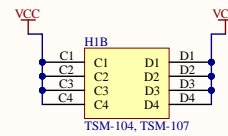
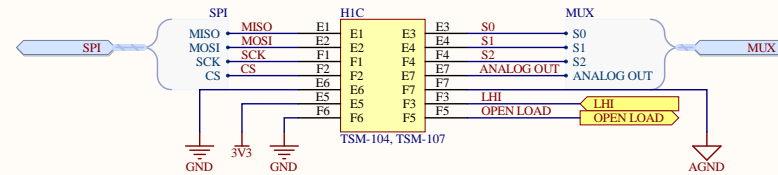
Revision: **01**

Sheet **5** of **6**

File Name: PDMC-S05-V00-Multiplexer.SchDoc

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






Revision History

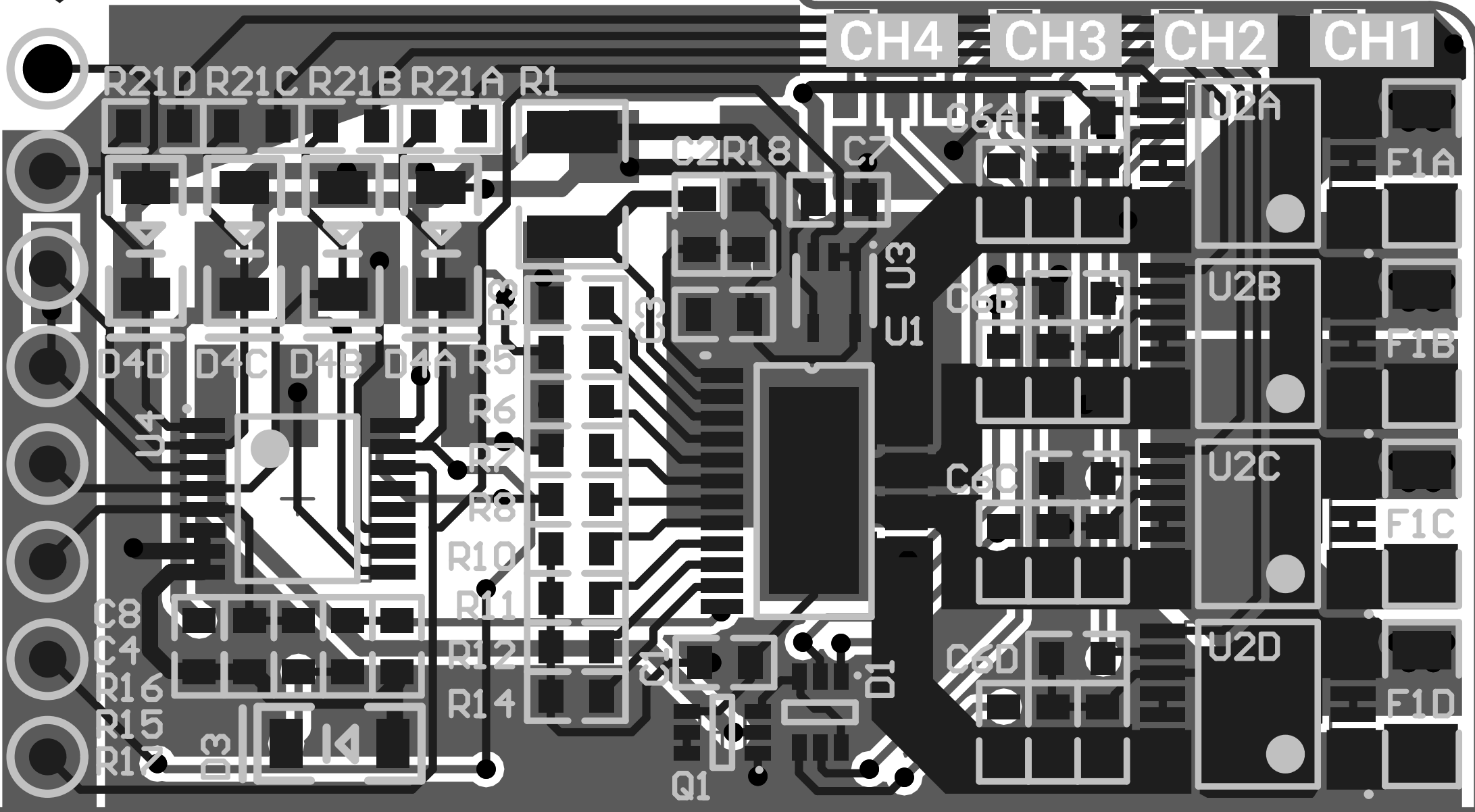
Rev	Date	Des

Sheet Title: **Connectors**

Project: Power Distribution Module Card		QUT Motorsport O-120, Gardens Point 2 George Street Brisbane, QLD 4000 Australia		
Size: A3	Number: 6	Version: 01	Revision: 01	
Drawn By: Zoe Goodward		Sheet 6 of 6		
Print Date: 20/08/2020 Print Time: 1:50:18 PM		File Name: PDMC-S06-V00-Connector Sch.Dwg		



QUTMS-PDMC-V00



Line #	Name	Description	Designator	Quantity	Manufacturer 1	Manufacturer Part Number 1	Manufacturer Lifecycle 1	Supplier 1	Supplier Part Number 1	Supplier Unit Price 1	Supplier Subtotal 1
	100nF	Capacitor, Ceramic, SMD, 100nF, 50V, 5%, X7R, 0603	C1, C3, C6A, C6B, C6C, C6D, C7, C8	8							
	470nF	Capacitor, Ceramic, SMD, 470nF, 50V, 5%, X7R, 0603	C2	1							
	1nF	Capacitor, Ceramic, SMD, 1nF, 25V, 5%, X7R, 0603	C4	1							
	10nF	Capacitor, Ceramic, SMD, 10nF, 25V, 5%, X7R, 0603	C5A, C5B, C5C, C5D	4							
	BAW56S	Diode Array 2 Pair Common Anode Standard 90V 250mA (DC) Surface Mount 6-TSSOP, SC-88, SOT-363	D1	1							
	SMBJ15C A	Diode, SMD, TVS, 15V, 24.4V, 24.6A Ipp, DO-214AA	D2	1							
	BZT52B3V3	Diode, SMD, Zener, 3.3V, 2%, 410mW, SOD-123	D3, D4A, D4B, D4C, D4D	5							
	LTST-S270TBKT	Blue 465-475nm 0603 Light Emitting Diodes (LED) RoHS	DS1A, DS1B, DS1C, DS1D	4							
	C1F 8A	8A 125V AC 63V DC Fuse Board Mount (Cartridge Style Excluded) Surface Mount 1206 (3216 Metric)	F1A, F1B, F1C, F1D	4							
	TSM-104, TSM-107	CONN HEADER SMD R/A 8POS and 14POS 2.54MM	H1	1							
	15mm Wide QUTMS Logo	15mm Wide QUTMS Logo	LOGO1	1							
	PUMD3	Pre-Biased Bipolar Transistor (BJT) 1 NPN, 1 PNP - Pre-Biased (Dual) 50V 100mA 300mW Surface Mount 6-TSSOP	Q1	1							
	470R	Resistor, SMD, 470R, 0.25W, 5%, 1210	R1	1							
	1k5	Resistor, SMD, 1k5, 0.1W, 5%, 0603	R2, R4, R9, R13	4							
	1k2	Resistor, SMD, 1k2, 0.1W, 5%, 0603	R3, R5, R6, R7, R17	5							
	4k7	Resistor, SMD, 4k7, 0.1W, 5%, 0603	R8, R15	2							
	10k	Resistor, SMD, 10k, 0.1W, 5%, 0603	R10, R11, R12, R14, R21A, R21B, R21C, R21D	8							
	1k	Resistor, SMD, 1k, 0.1W, 5%, 0603	R16	1							
	47R	Resistor, SMD, 47R, 0.1W, 5%, 0603	R18	1							
	47k	Resistor, SMD, 47k, 0.1W, 5%, 0603	R19A, R19B, R19C, R19D	4							
	2k2	Resistor, SMD, 2k2, 0.1W, 5%, 0603	R20A, R20B, R20C, R20D	4							
	TestPoint _SMD		TP1, TP2, TP3, TP4, TP5, TP6, TP7	7							
	TestPoint _Hoop_White		TP8	1							
	BTS71220-4ESA	The BTS71220-4ESA is a SPI Power Controller, providing protection functions and diagnosis. The device is integrated in SMART7 technology.	U1	1							
	INA250	INA250 36-V, Low- or High-Side, Bidirectional, Zero-Drift Current-Shunt Monitor with Precision Integrated Shunt Resistor	U2A, U2B, U2C, U2D	4							
	TMP235	TMP235, Low-Power, High-Accuracy Analog Output Temperature Sensor	U3	1							
	CD74HC4051PWR	IC MUX/DEMUX 8X1 16TSSOP	U4	1							