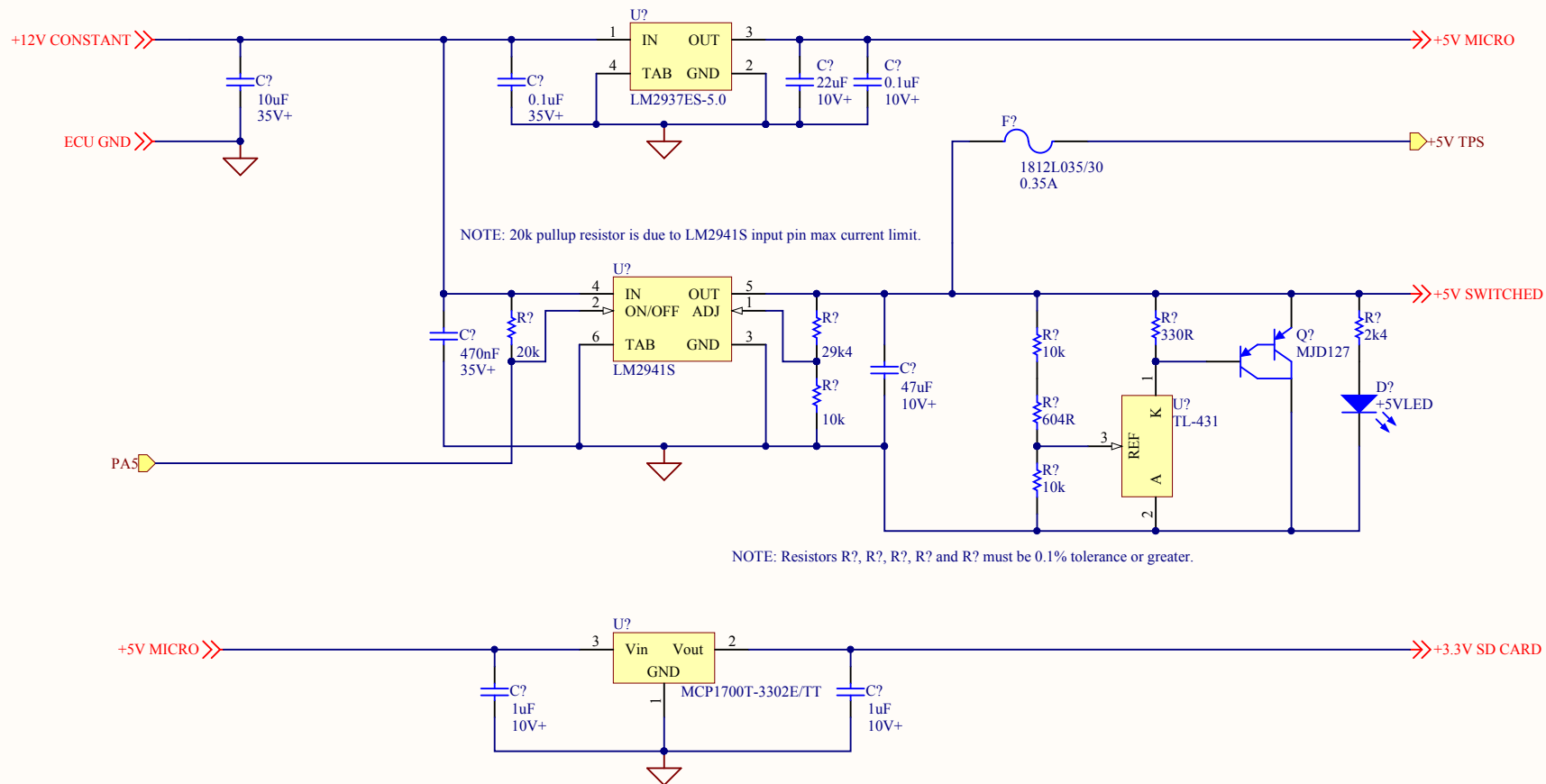


Please refer to NOTES.md and ERRATA.md files for important design information.

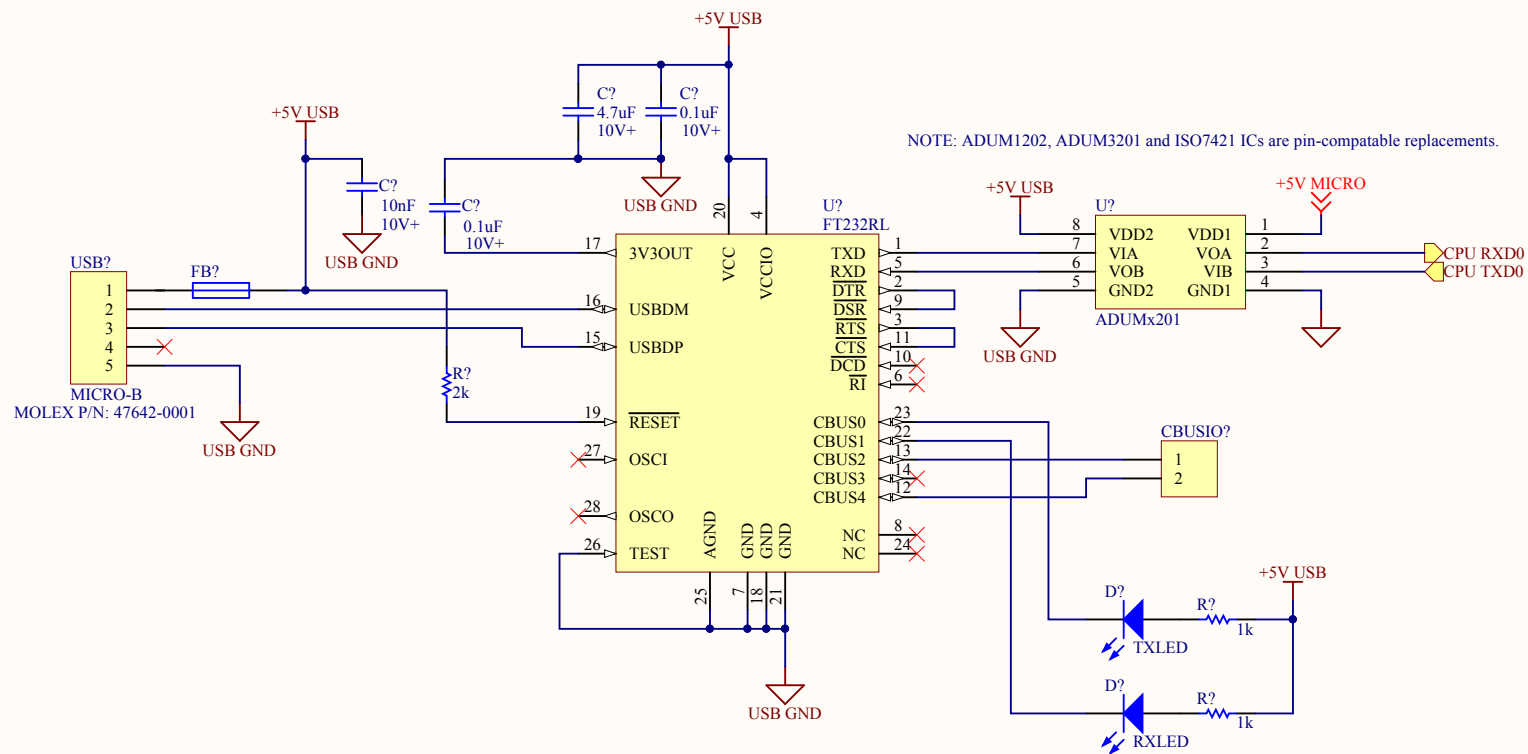


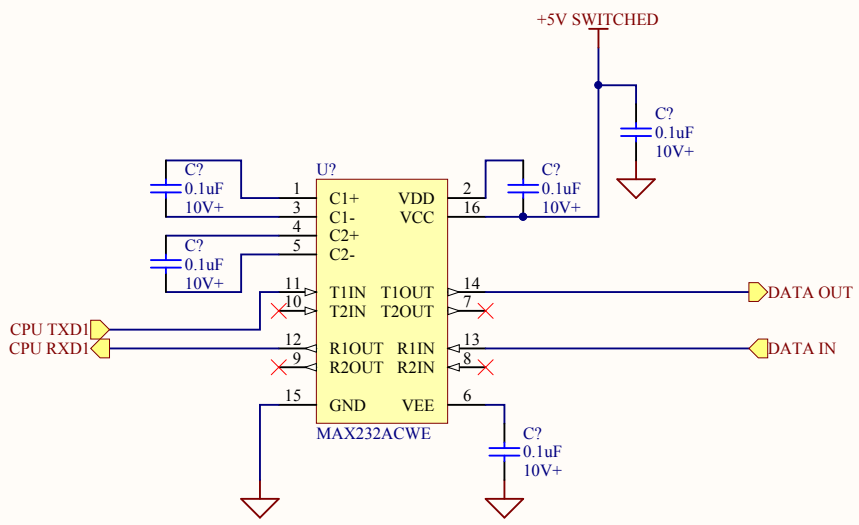
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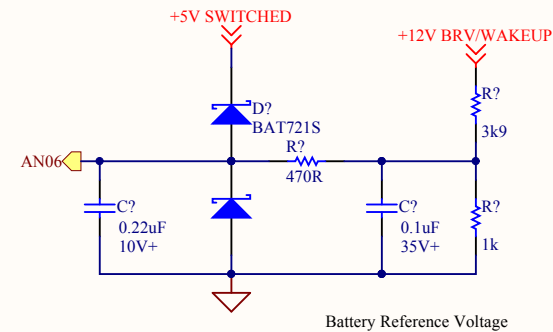
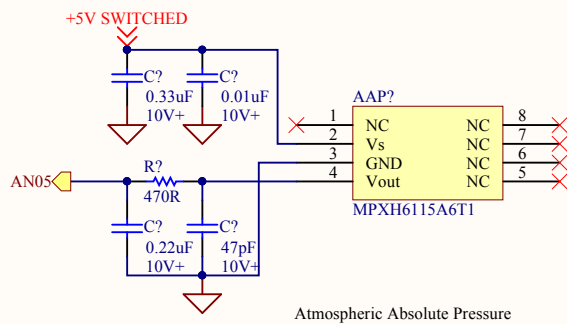
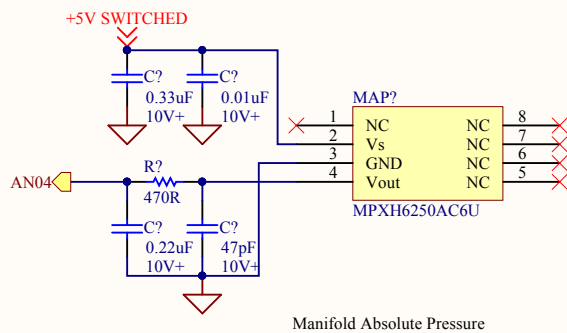
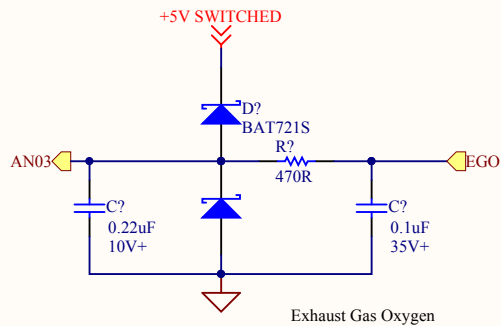
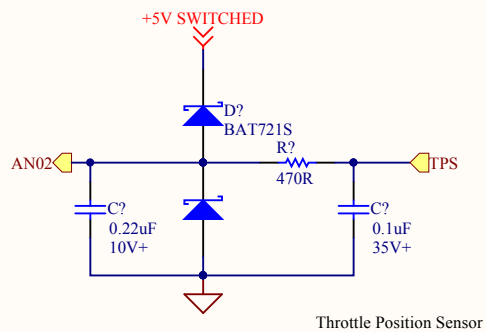
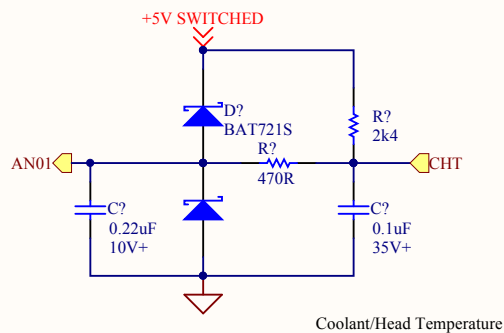
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3

4

Title **RB25DET - USB Comms**Size: **A4**Number: **A**Revision: **0.1**Date: **2/09/2013**Time: **10:30:56 AM** Sheet **3** of **14**Drawn By:
Dan Visser





SENSOR GND

Title **RB25DET - Core Analogue Inputs**

Size: **A4**

Number: **A**

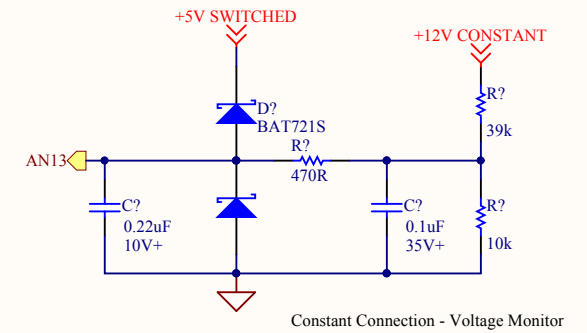
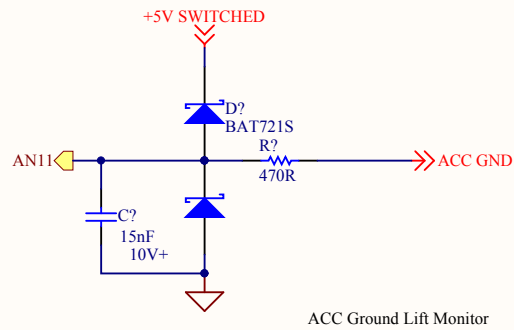
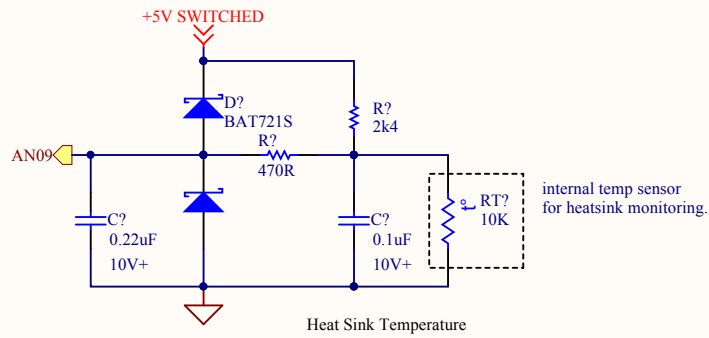
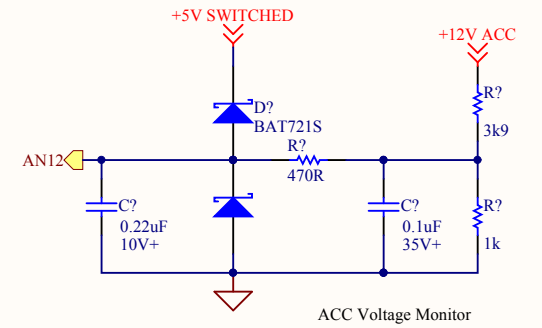
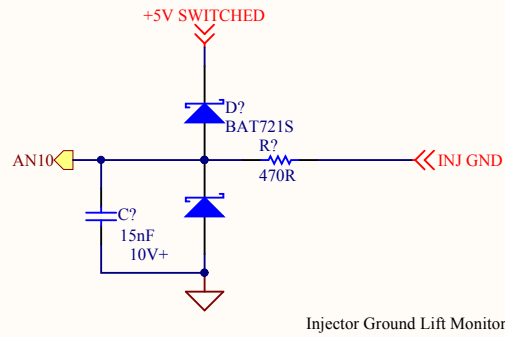
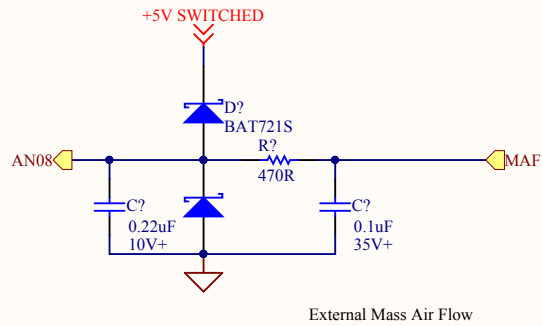
Revision: **0.1**

Date: **2/09/2013**

Time: **10:30:56 AM** Sheet **5** of **14**

Drawn By:
Dan Visser

Altium



Title **RB25DET - Extra Analogue Inputs**

Size: A4

Number: A

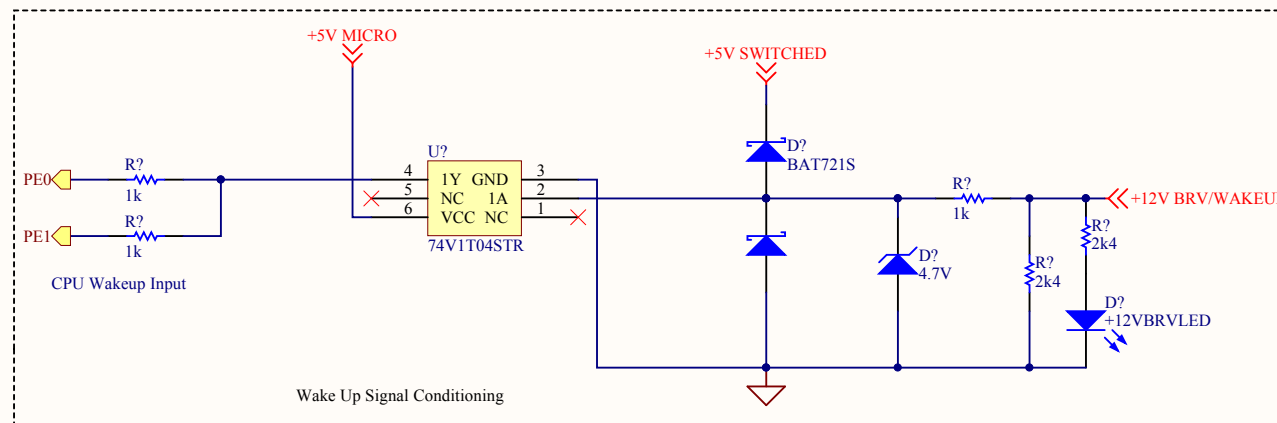
Revision: 0.1


Date: 2/09/2013

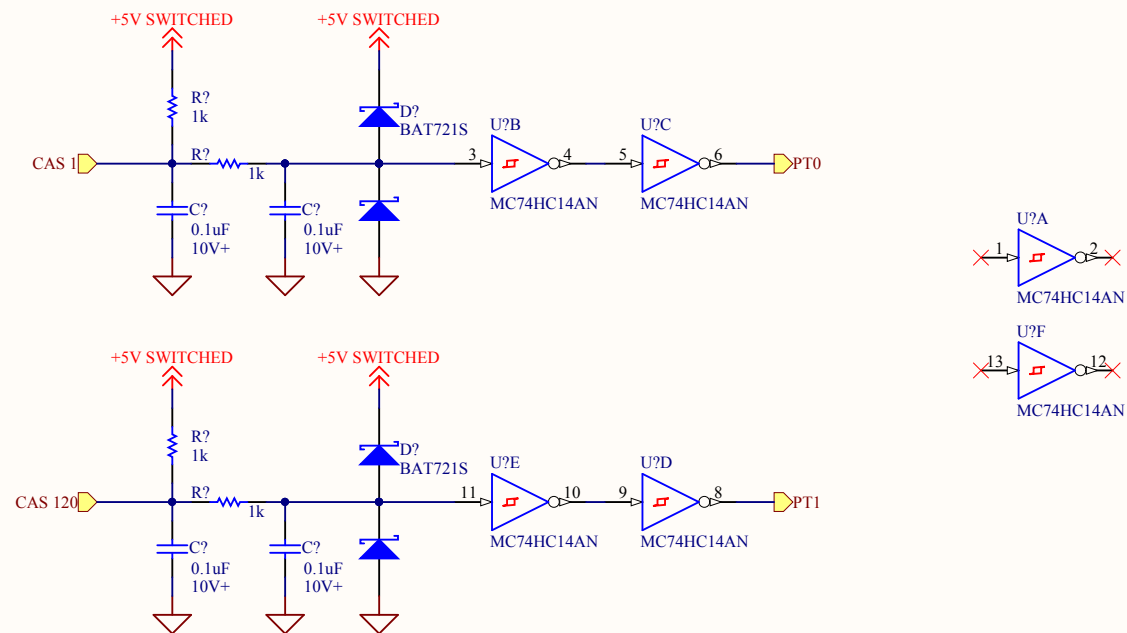
Time: 10:30:56 AM Sheet 6 of 14

Drawn By:
Dan Visser

Altium



Title RB25DET - Digital Inputs			Drawn By: <i>Dan Visser</i>	
Size: A4	Number: A	Revision: 0.1		
Date: 2/09/2013	Time: 10:30:56 AM	Sheet 7 of 14		



Title **RB25DET - CAS Interface**

Size: **A4**

Number: **A**

Revision: **0.1**

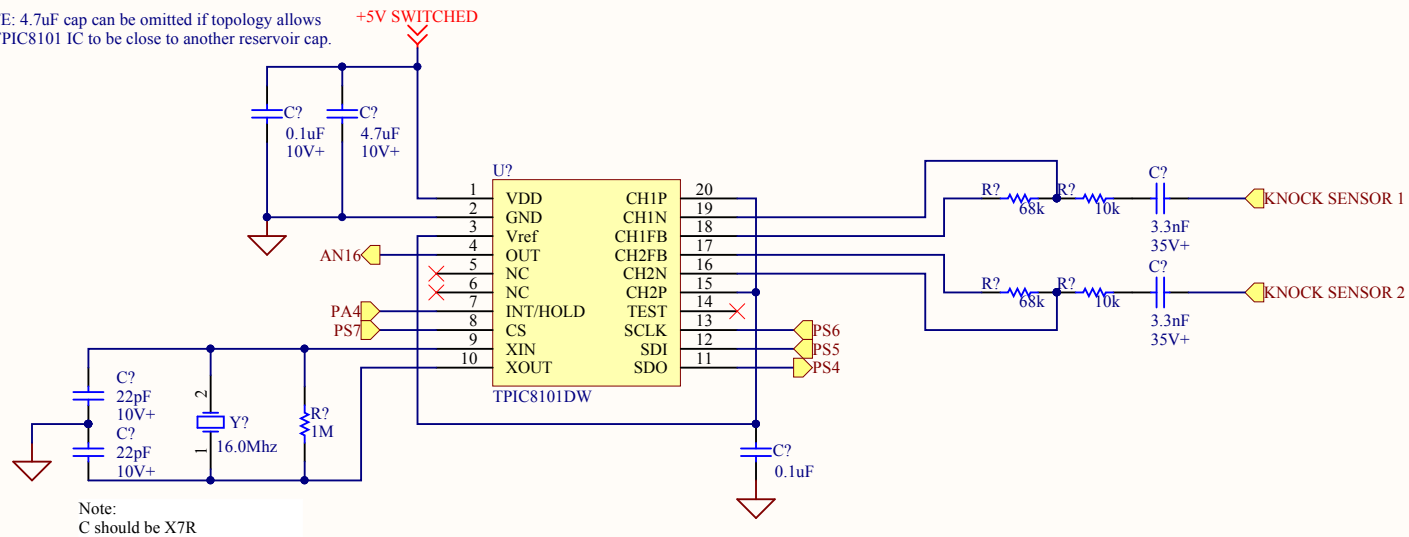
Date: **2/09/2013**

Time: **10:30:56 AM** Sheet **8** of **14**

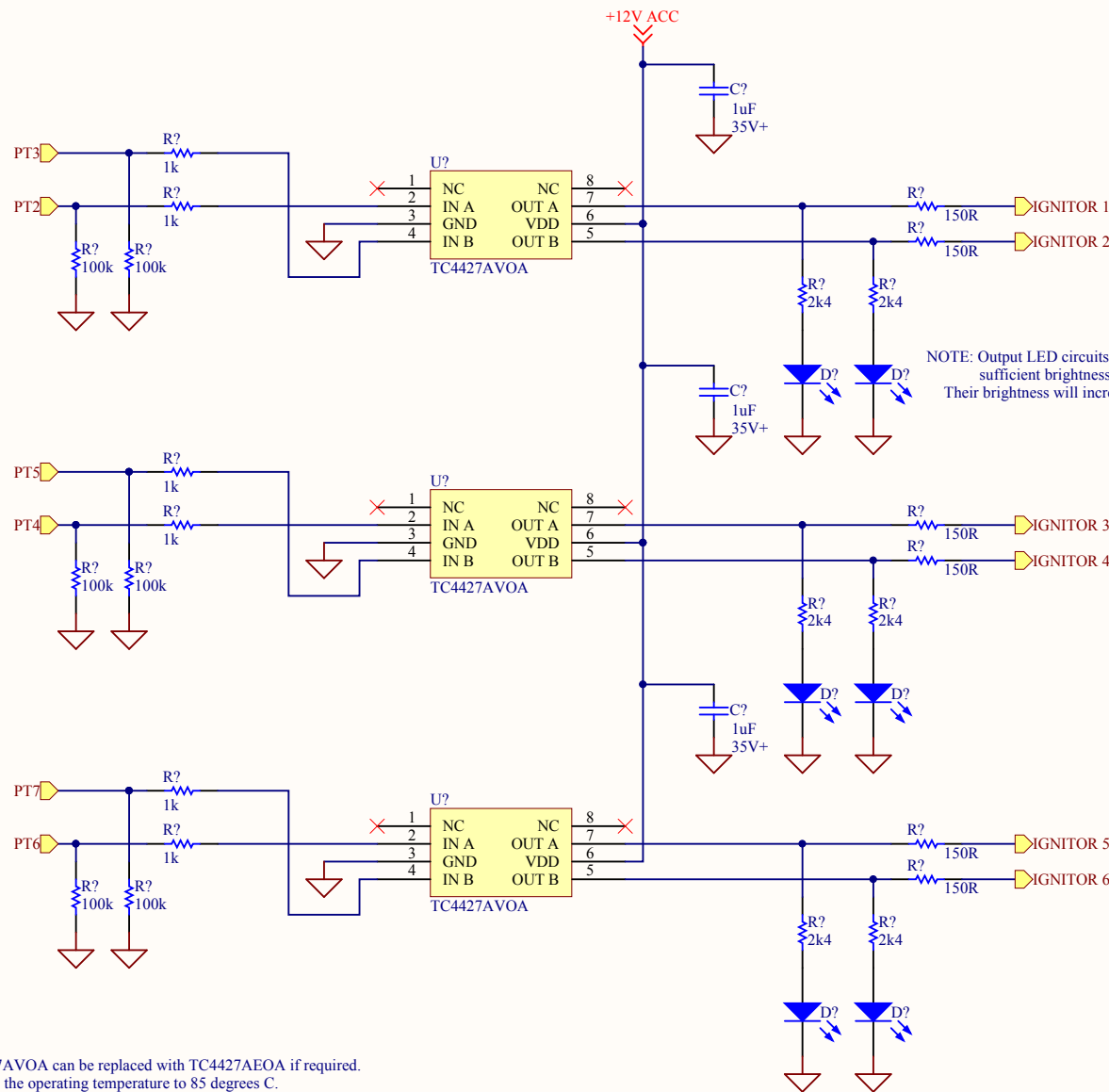
Drawn By:
Dan Visser



NOTE: 4.7uF cap can be omitted if topology allows the TPIC8101 IC to be close to another reservoir cap.



Title RB25DET - Knock Sensing			Drawn By: Dan Visser	
Size: A4	Number: A	Revision: 0.1		
Date: 2/09/2013	Time: 10:30:56 AM	Sheet 9 of 14		



NOTE: TC4427AVOA can be replaced with TC4427AE0A if required. This will derate the operating temperature to 85 degrees C.

Title **RB25DET - Ignitor Outputs**

Size: A4

Number: A

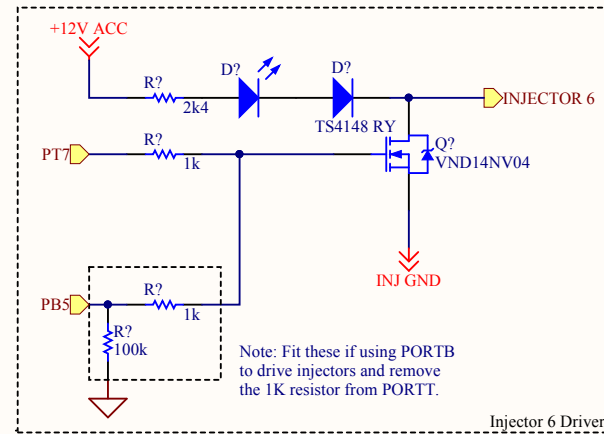
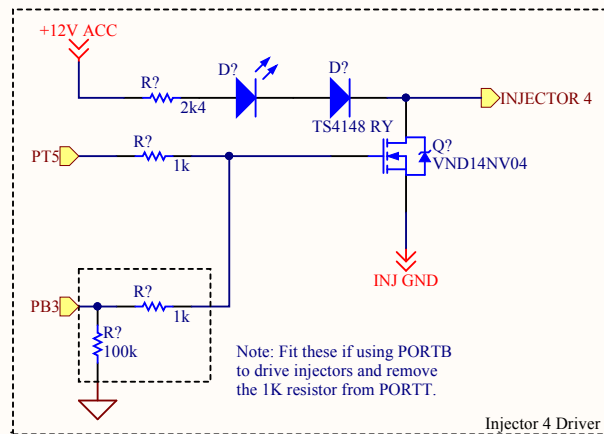
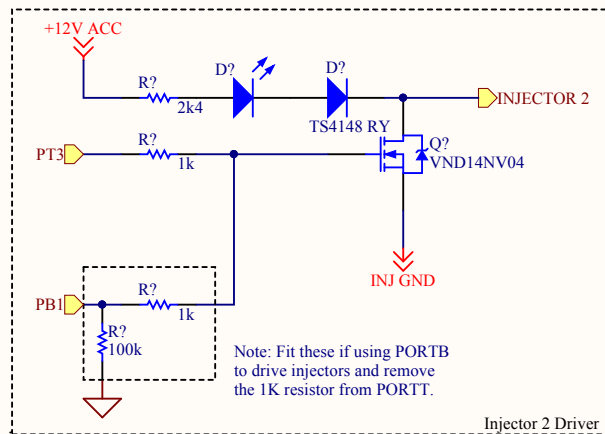
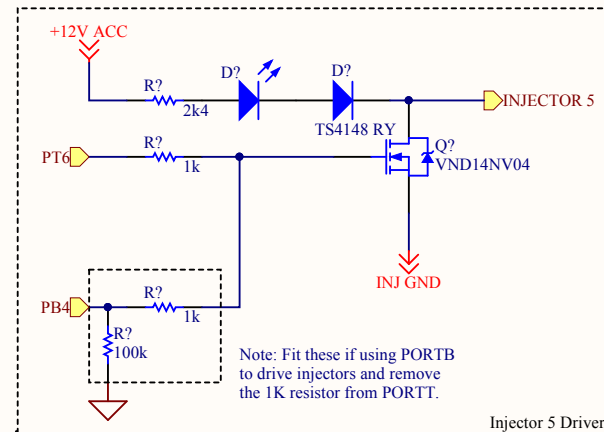
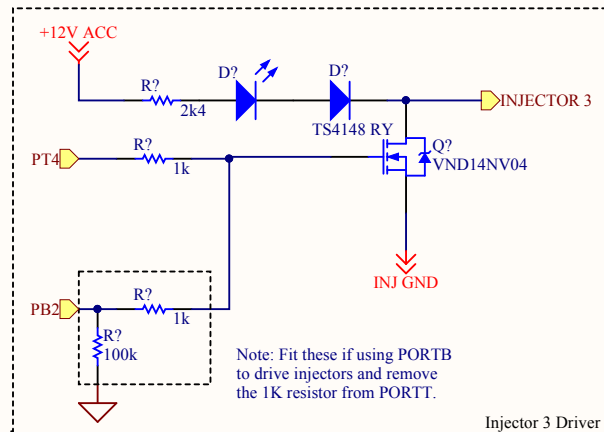
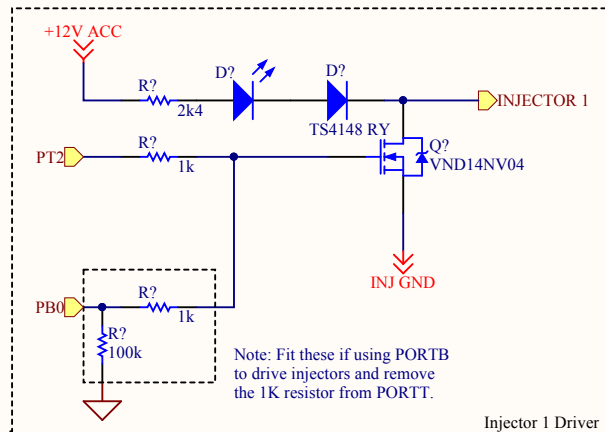
Revision: 0.1

Date: 2/09/2013

Time: 10:30:57 AM Sheet 10 of 14

Drawn By:
Dan Visser

Altium



Title **RB25DET - Injectors**

Size: **A4**

Number: **A**

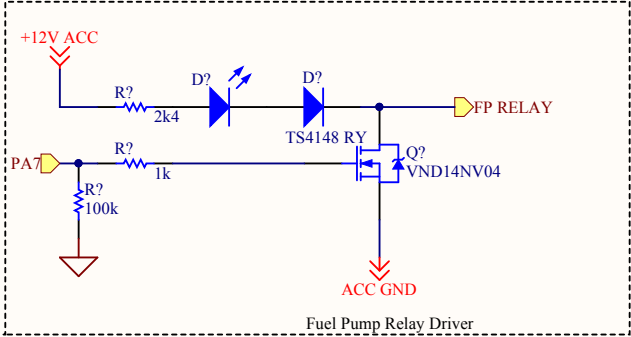
Revision: **0.1**

Date: **2/09/2013**

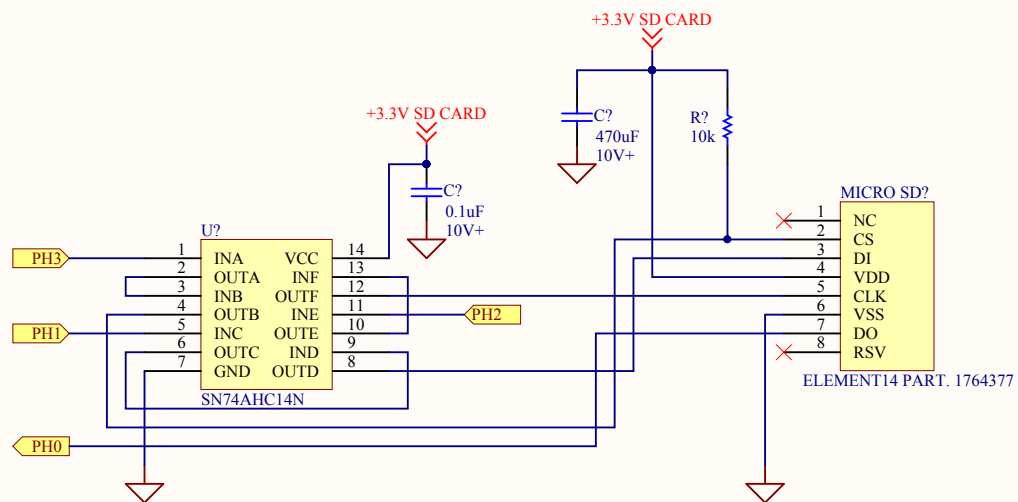
Time: **10:30:57 AM** Sheet **11** of **14**


Drawn By:
Dan Visser





Title RB25DET - Low Side Drivers			Drawn By: Dan Visser	
Size: A4	Number: A	Revision: 0.1		
Date: 2/09/2013	Time: 10:30:57 AM	Sheet 12 of 14		



Title RB25DET - SD Card Interface			Drawn By: <i>Dan Visser</i>	
Size: A4	Number: A	Revision: 0.1		
Date: 2/09/2013	Time: 10:30:57 AM	Sheet 13 of 14		

A

B

C

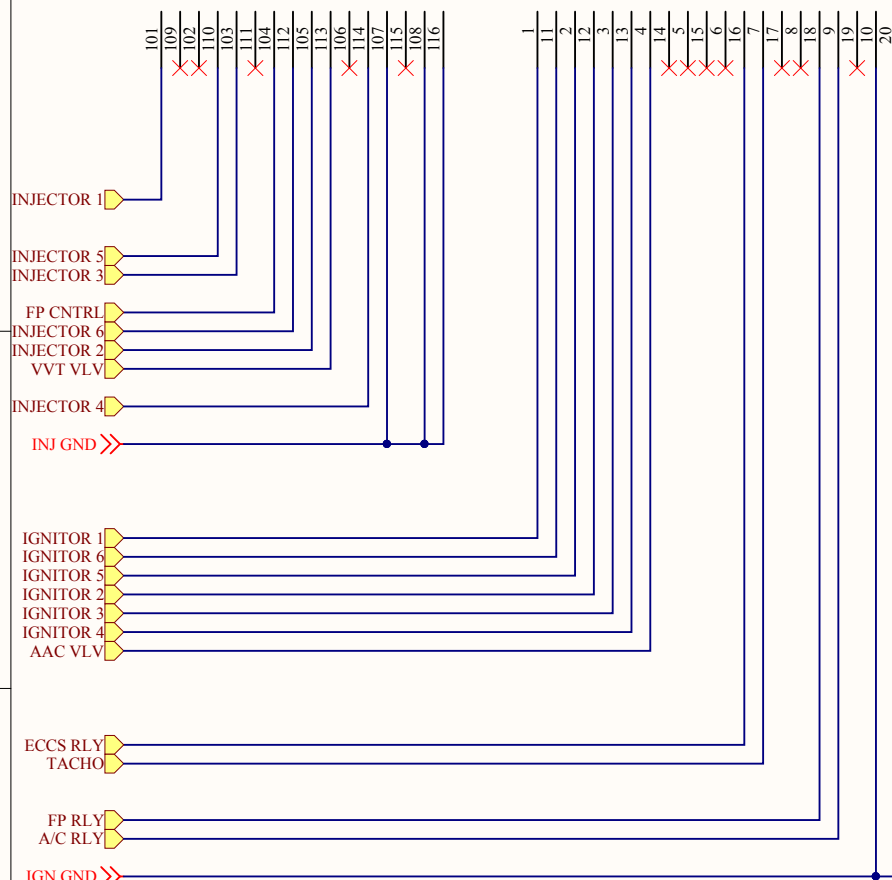
D

A

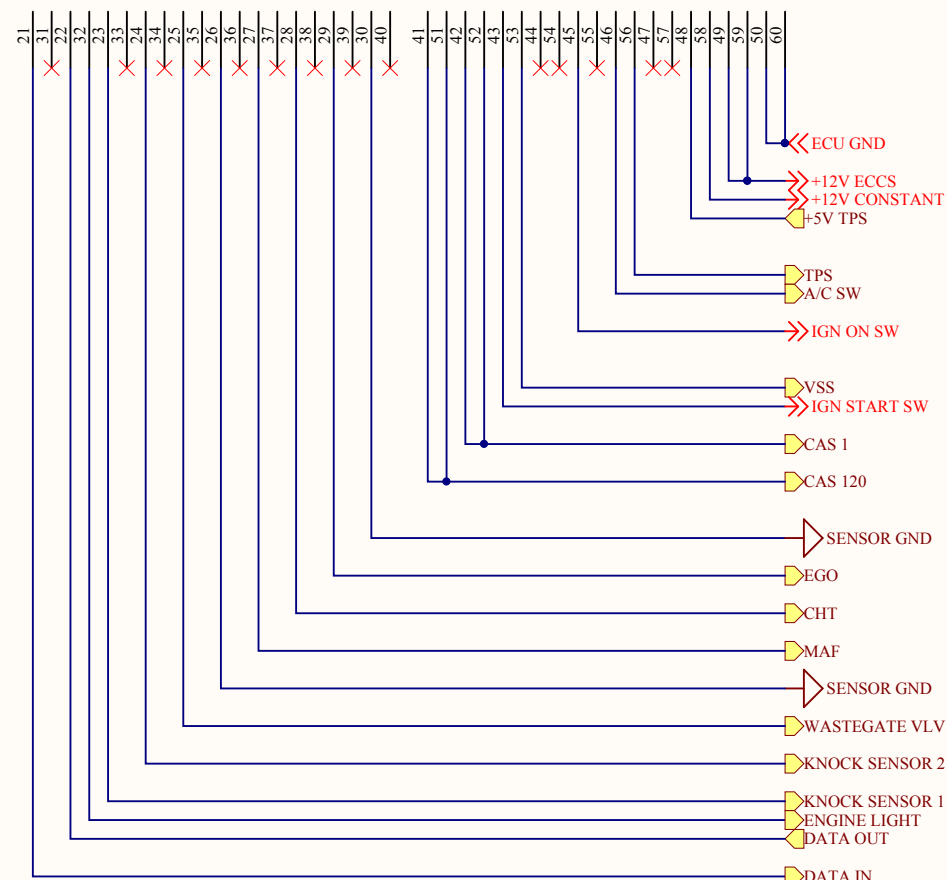
B

C

D



76 PIN ECCS Header



Title RB25DET - Connector			Drawn By: Dan Visser	
Size: A4	Number: A	Revision: 0.1		
Date: 2/09/2013	Time: 10:30:57 AM	Sheet 14 of 14		

