

Table of contents

Sheet 1: PROJECT OVERVIEW (THIS PAGE)

Sheet 2: CAN

Sheet 3: DAUGHTERBOARD

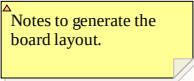
Sheet 4: MCU

Sheet 5: POWER STAGE

Sheet 6: SENSING

Legend

- General comment such as function title, configuration, ...
- Text to be added to silkscreen.
- Warning text.



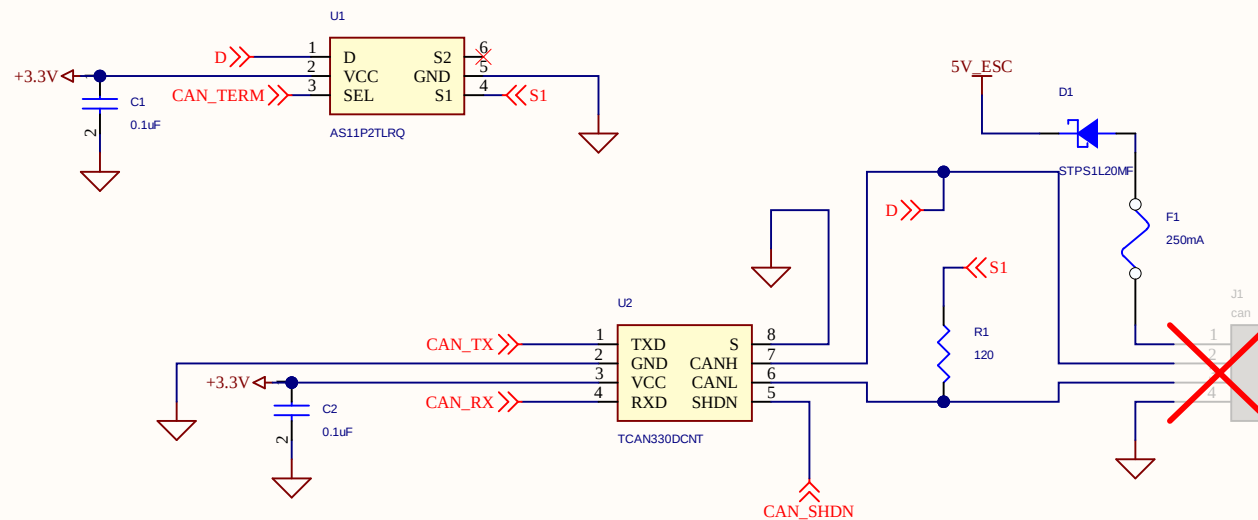
Open Platform License Agreement

The Open Platform License Agreement (“Agreement”) is a binding legal contract between you (“You”) and STMicroelectronics International N.V. (“ST”), a company incorporated under the laws of the Netherlands acting for the purpose of this Agreement through its Swiss branch 39, Chemin du Champ des Filles, 1228 Plan-les-Ouates, Geneva, Switzerland.

By using the enclosed reference designs, schematics, PC board layouts, and documentation, in hardcopy or CAD tool file format (collectively, the “Reference Material”), You are agreeing to be bound by the terms and conditions of this Agreement. Do not use the Reference Material until You have read and agreed to this Agreement terms and conditions. The use of the Reference Material automatically implies the acceptance of the Agreement terms and conditions.

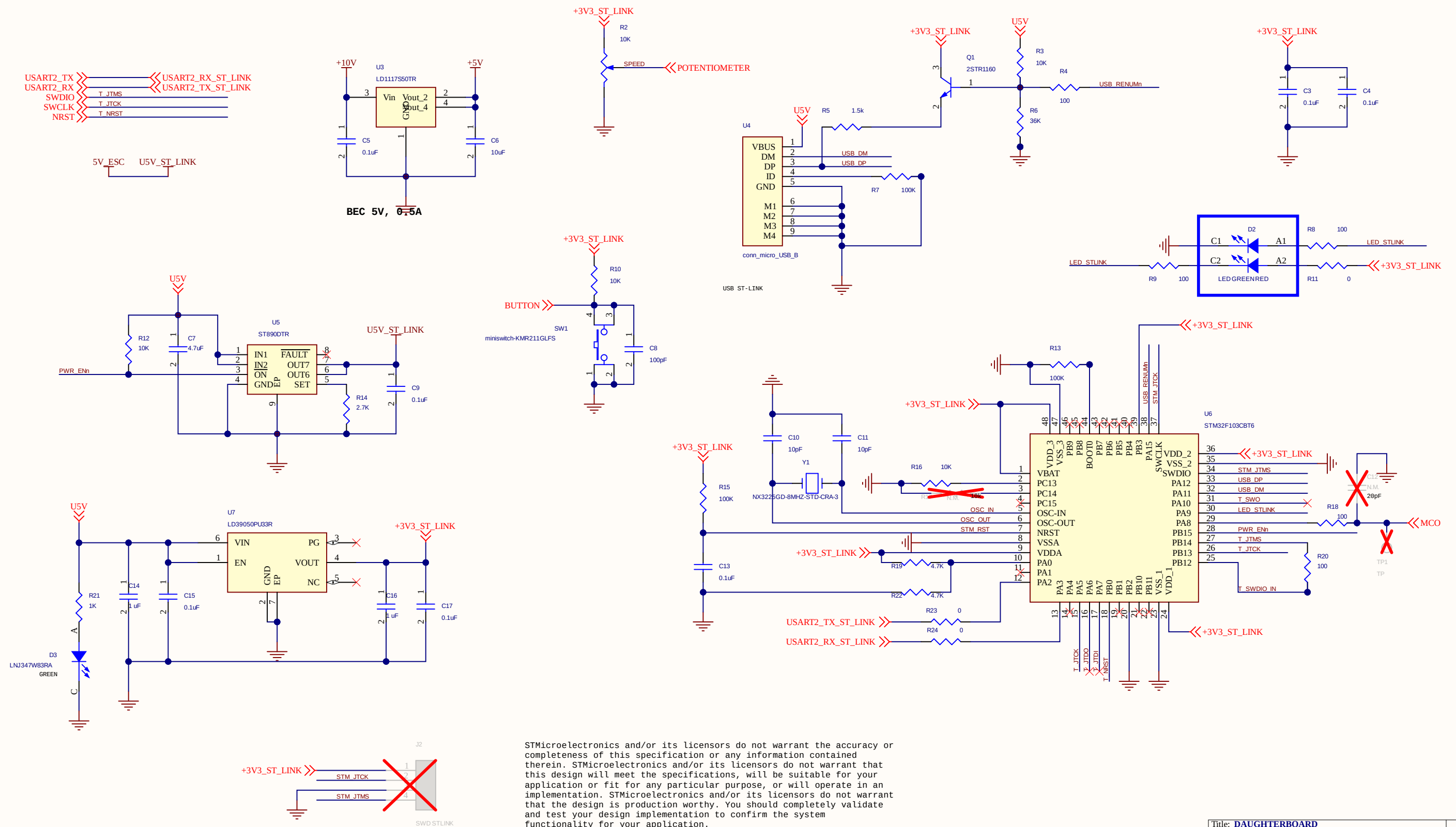
The complete Open Platform License Agreement can be found on www.st.com/opla.





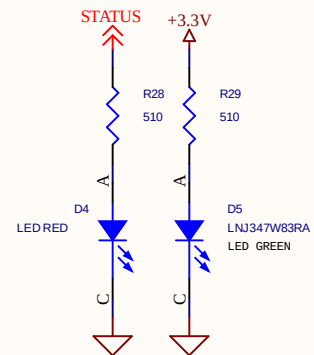
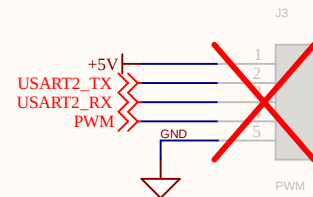
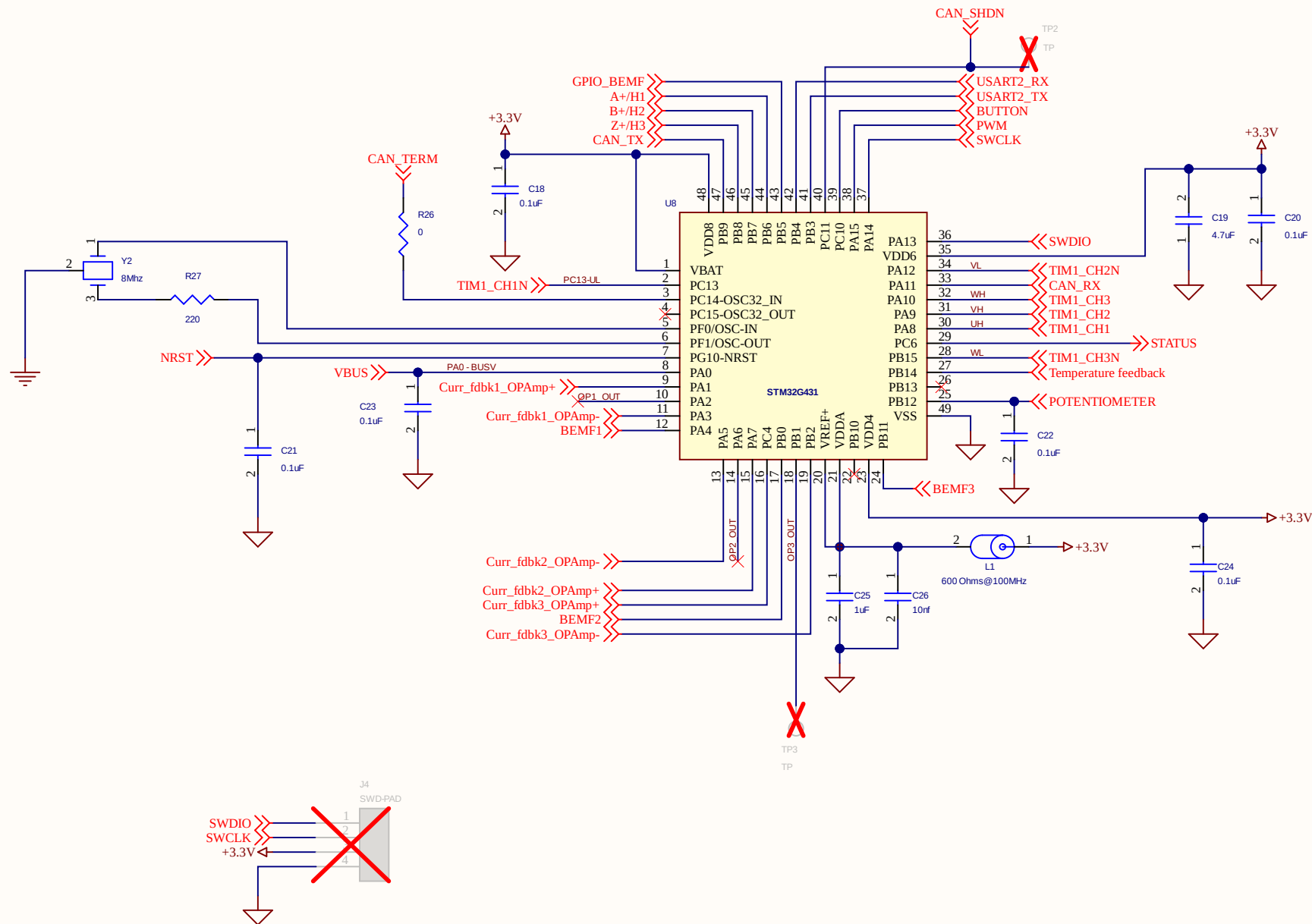
STMicroelectronics and/or its licensors do not warrant the accuracy or completeness of this specification or any information contained therein. STMicroelectronics and/or its licensors do not warrant that this design will meet the specifications, will be suitable for your application or fit for any particular purpose, or will operate in an implementation. STMicroelectronics and/or its licensors do not warrant that the design is production worthy. You should completely validate and test your design implementation to confirm the system functionality for your application.



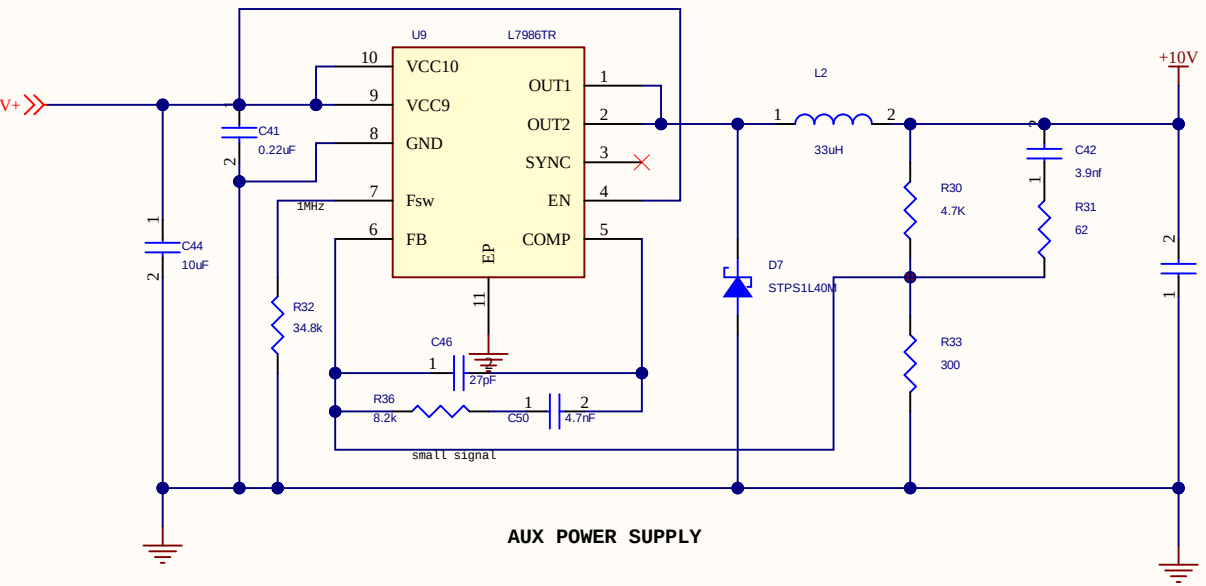


STMicroelectronics and/or its licensors do not warrant the accuracy or completeness of this specification or any information contained therein. STMicroelectronics and/or its licensors do not warrant that this design will meet the specifications, will be suitable for your application or fit for any particular purpose, or will operate in an implementation. STMicroelectronics and/or its licensors do not warrant that the design is production worthy. You should completely validate and test your design implementation to confirm the system functionality for your application.

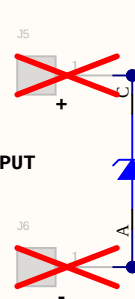




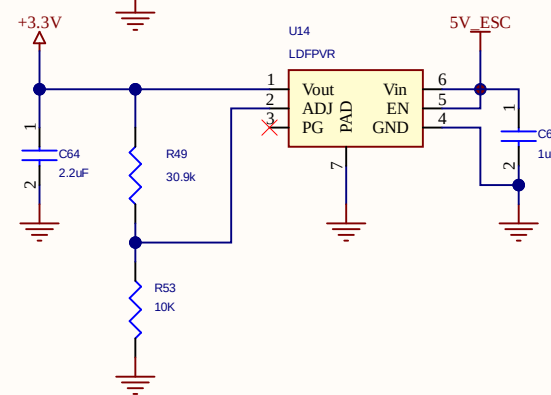
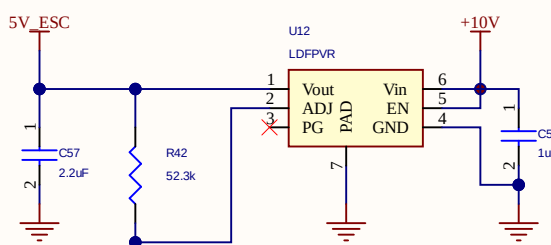
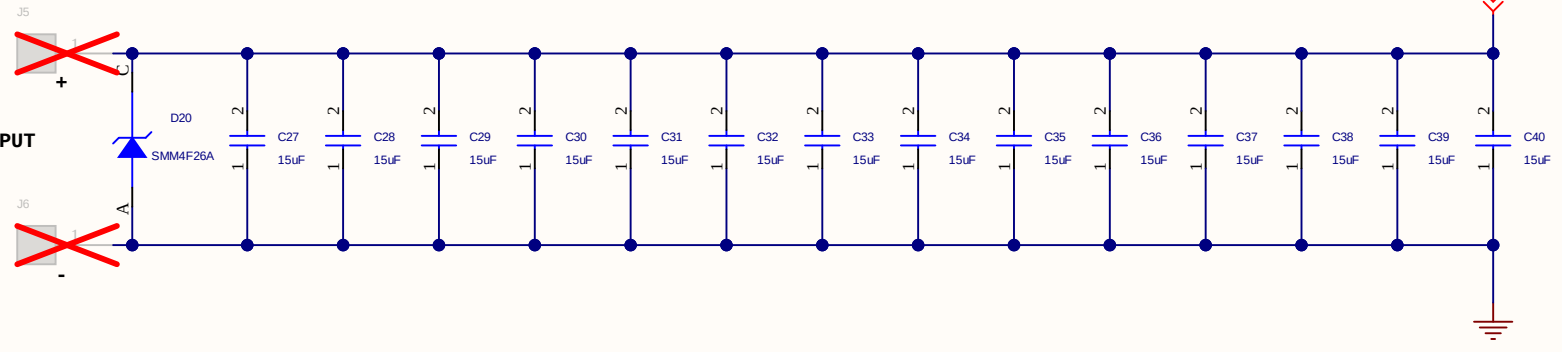
STMicroelectronics and/or its licensors do not warrant the accuracy or completeness of this specification or any information contained therein. STMicroelectronics and/or its licensors do not warrant that this design will meet the specifications, will be suitable for your application or fit for any particular purpose, or will operate in an implementation. STMicroelectronics and/or its licensors do not warrant that the design is production worthy. You should completely validate and test your design implementation to confirm the system functionality for your application.



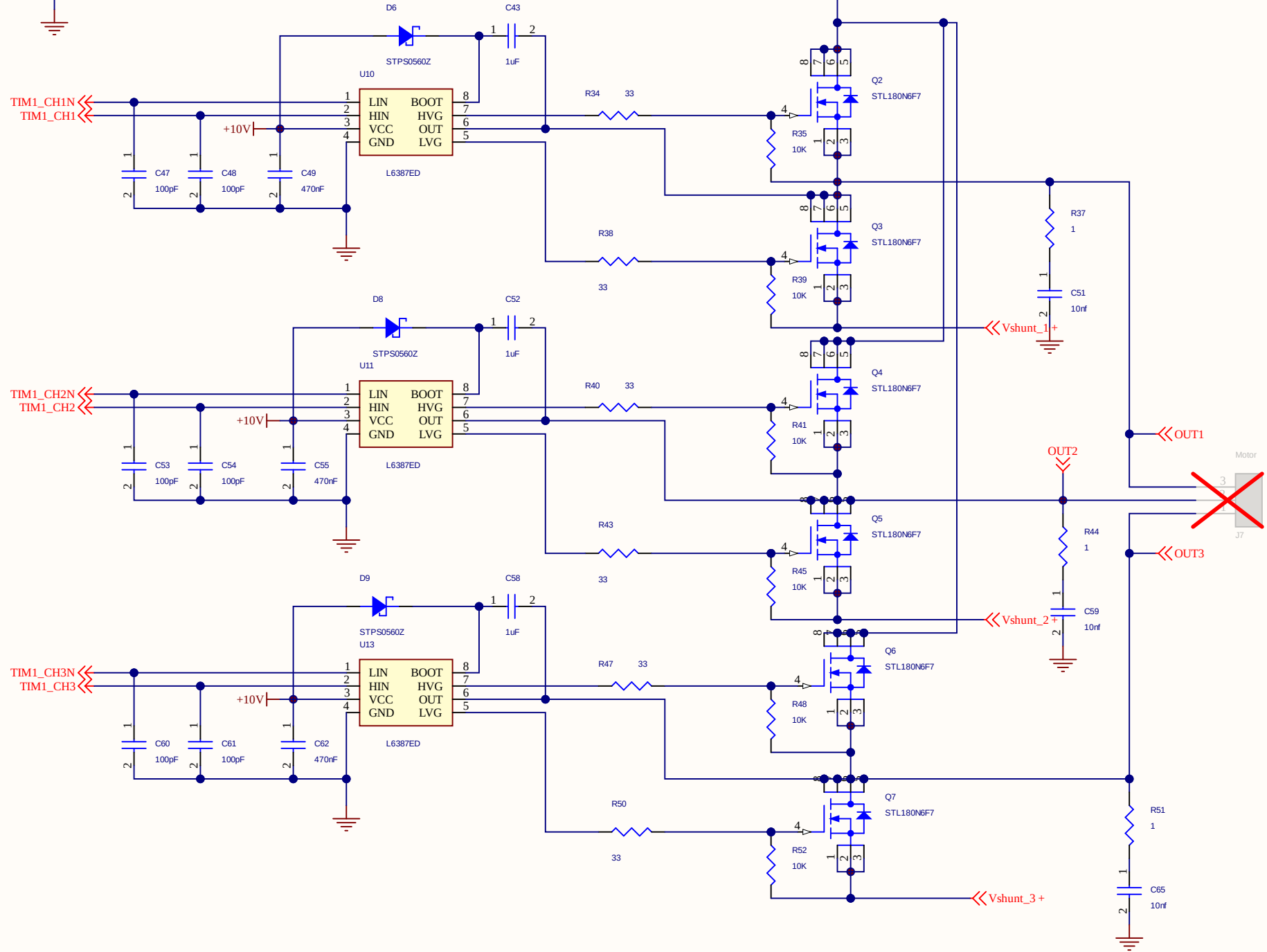
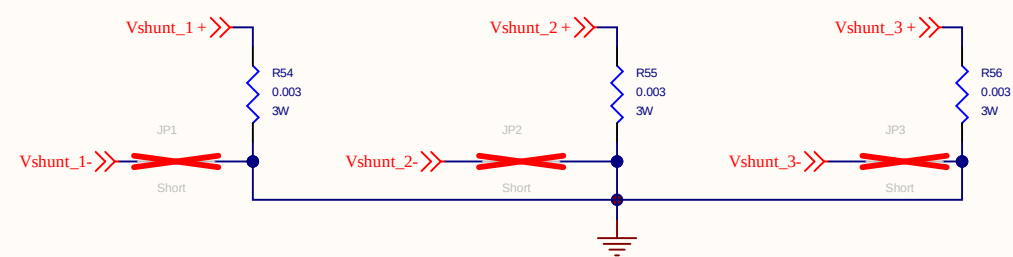
POWER INPUT



POWER SECTION

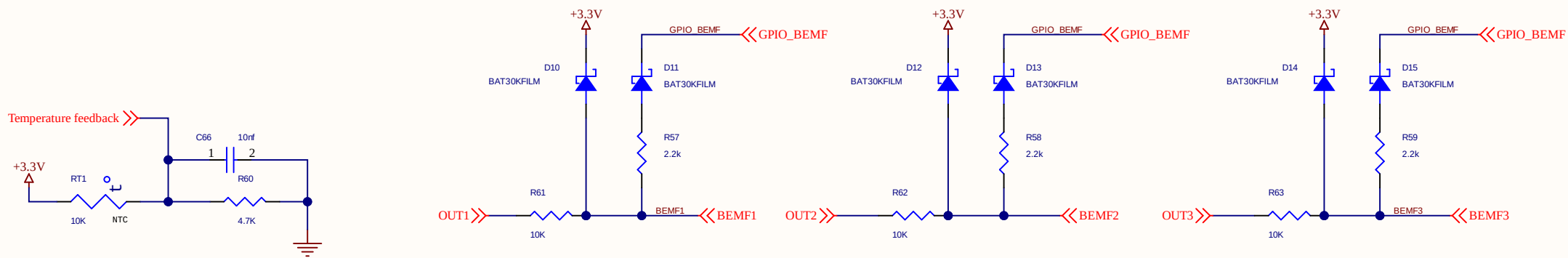


SHUNT RESISTOR

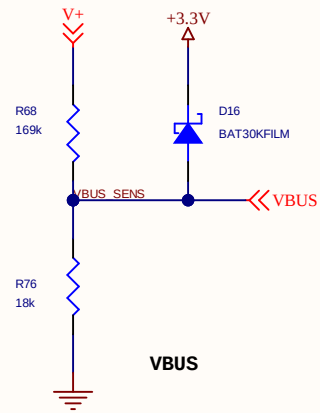
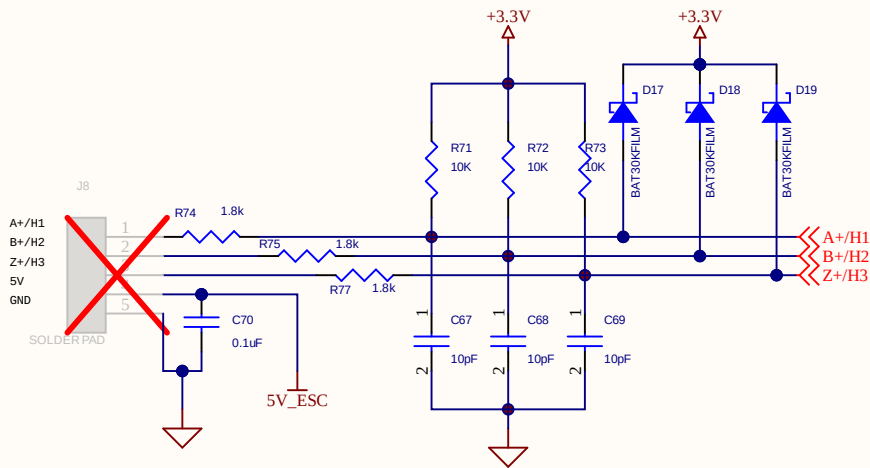


STMicroelectronics and/or its licensors do not warrant the accuracy or completeness of this specification or any information contained therein. STMicroelectronics and/or its licensors do not warrant that this design will meet the specifications, will be suitable for your application or fit for any particular purpose, or will operate in an implementation. STMicroelectronics and/or its licensors do not warrant that the design is production worthy. You should completely validate and test your design implementation to confirm the system functionality for your application.

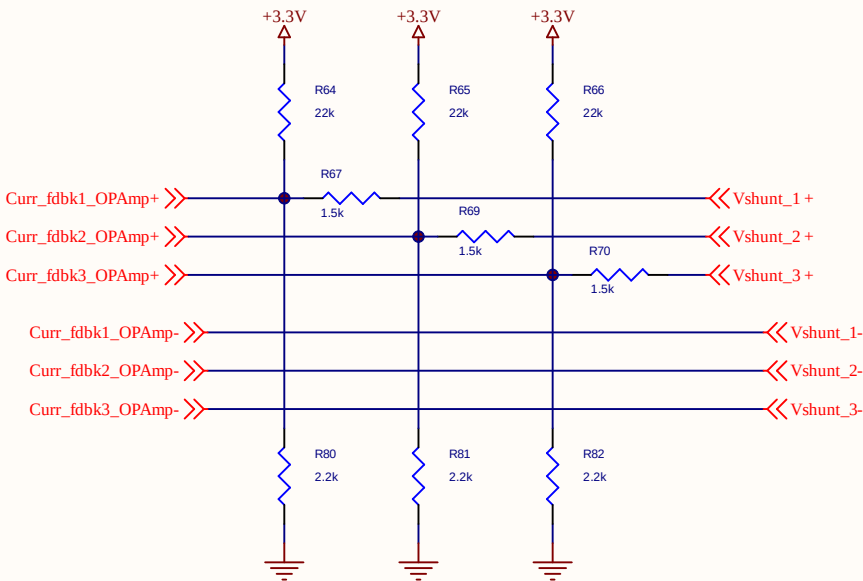
BEMF DETECTION- SIX STEP



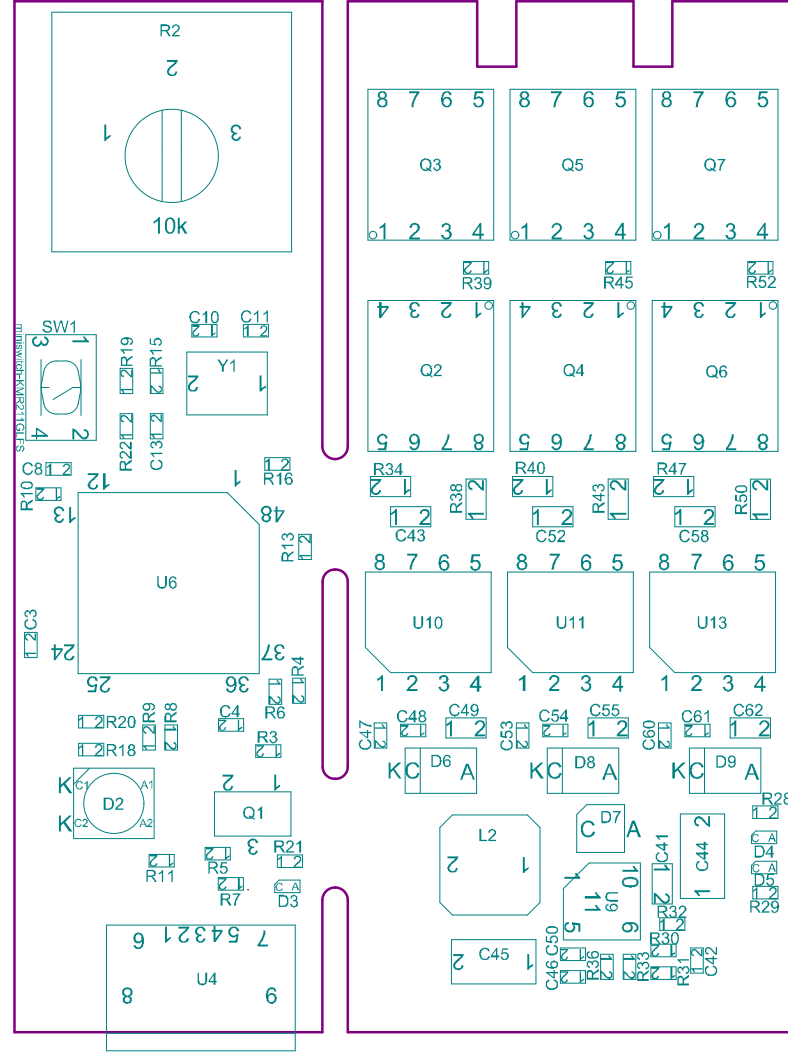
HALL/ENCODER SENSOR



SHUNT SENSING CIRCUIT

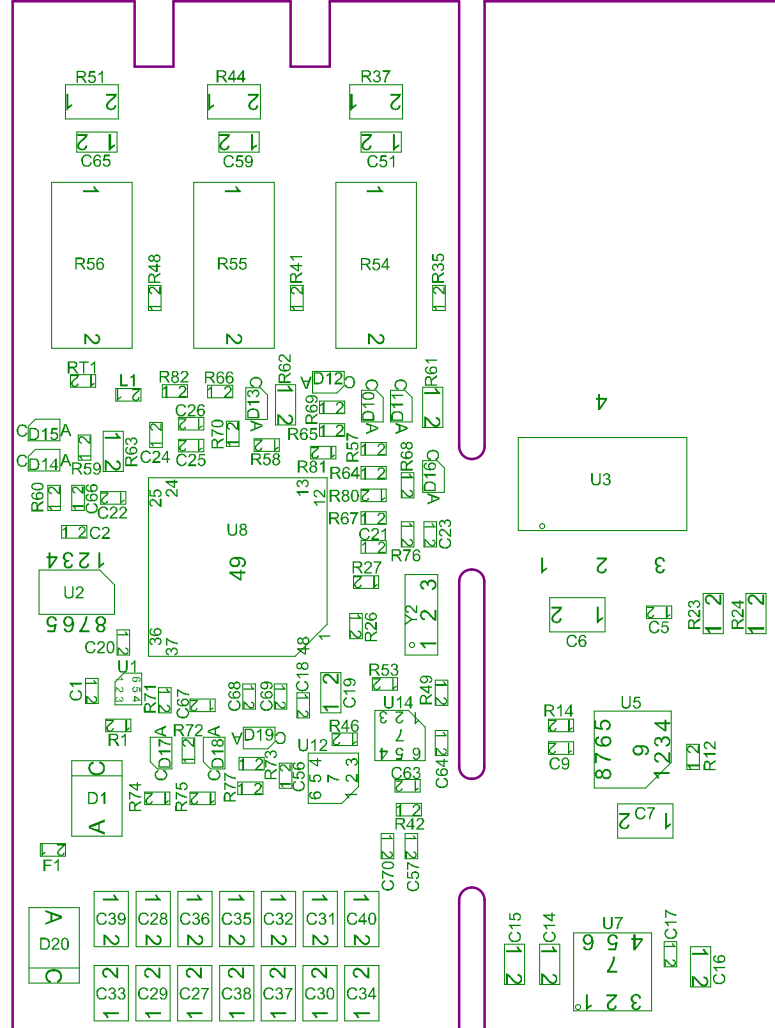


STMicroelectronics and/or its licensors do not warrant the accuracy or completeness of this specification or any information contained therein. STMicroelectronics and/or its licensors do not warrant that this design will meet the specifications, will be suitable for your application or fit for any particular purpose, or will operate in an implementation. STMicroelectronics and/or its licensors do not warrant that the design is production worthy. You should completely validate and test your design implementation to confirm the system functionality for your application.



Project: ESC_G4	
Layer: M14-Top Assembly	Gerber: .GM14
Variant: G431CBU6	Ref: MB1419
Date: 26-MARCH-2019	Rev: B





Project: ESC_G4		
Layer: M15-Bottom Assembly	Gerber:.GM15	
Variant: G431CBU6	Ref: MB1419	
Date: 26-MARCH-2019	Rev: B	

