

Dear customer,

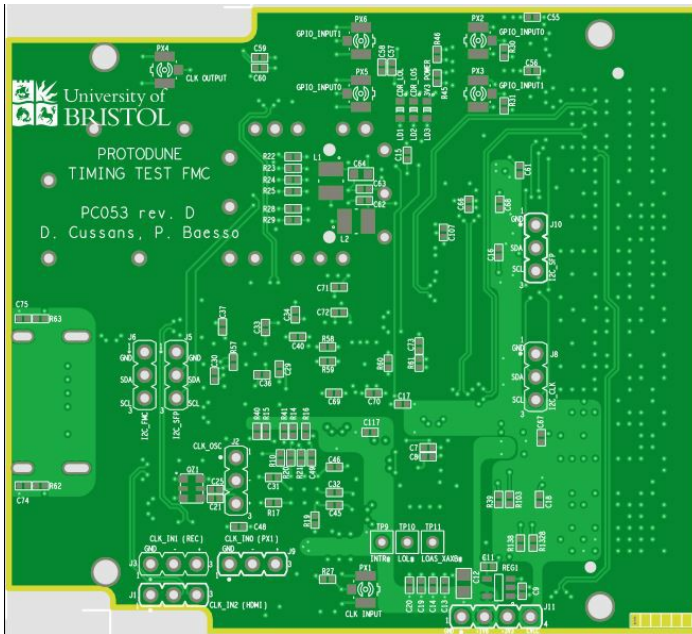
Thank you for placing a price offer with Eurocircuits. While analyzing your data to prepare the offer, our engineers have found some manufacturability issues that require your attention. These are listed below. Wherever possible we have proposed a solution. This may mean changing the technology parameters of the offer details to the values found in the data.

Table of Contents

1. [Please check: Your order is for single PCB with Assembly service](#)
2. [Please check: We suggest the use of Alternative/Generic Parts](#)
3. [Please check: We suggest the use of Alternative/Generic Parts for automotive](#)
4. [Please check: Reference Designator with Multiple Descriptions in the BOM File](#)
5. [Please check: Missing Manufacturer Part Numbers](#)
6. [Please check: Incomplete Manufacturer Part Numbers](#)
7. [Action Required: Unable to Identify Manufacturer Part Numbers from Description](#)
8. [Please check: Manufacturer Part Numbers and Identified Part Numbers do not Match](#)
9. [Action Required: Footprint Defined in the BOM Does Not Match the Gerber Data](#)
10. [Action Required: Manufacturer Part Number Out of Stock/Insufficient Stock](#)
11. [Please check: Suggested Alternative Parts for Out of Stock/Insufficient Stock of Requested Parts](#)
12. [Please check: Polarity Marking Found For Non-Polarized Components](#)

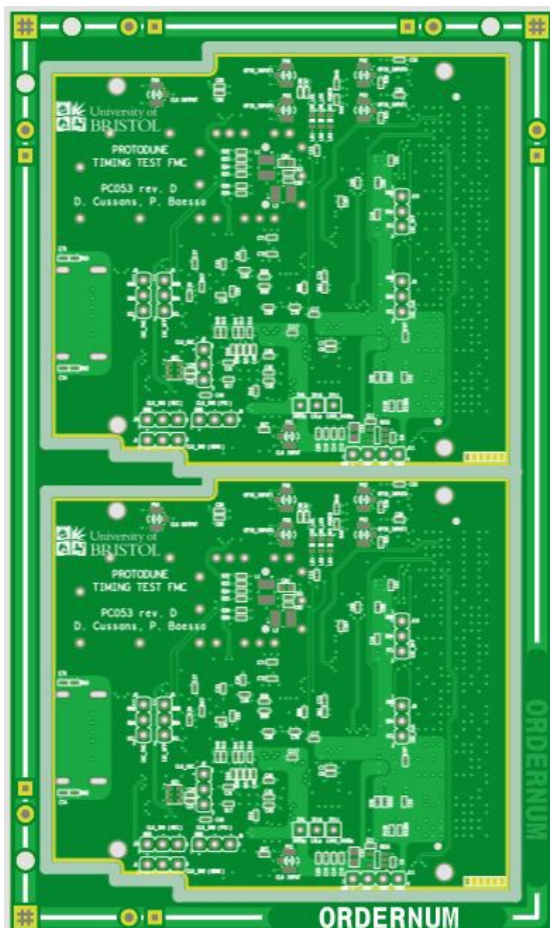
1. Please check: Your order is for single PCB with Assembly service

You have ordered this as a single PCB with Assembly service for it.



Implemented Solution :

For optimal assembly production we have changed the order details from Single PCB to a PANEL. Refer below image :



We have changed the order detail parameters and recalculated the price accordingly.

We have also selected the option "No border - Single PCB" in the order details. It means that you will get Single PCBs delivered after production.

2. Please check: We suggest the use of Alternative/Generic Parts

Our engineers would like to suggest alternate/generic parts for following component reference designators, please provide your approval so that we may continue with your order.

C12
C35
C64
C1, C2, C3, C4, C5, C6, C7, C8...
C30, C34, C37, C41
R1
R61
R10, R17, R19, R20, R21, R44
R12, R34, R52, R53, R54, R55
R2, R3, R4, R32, R33, R36, R38, R57
R5, R6
R58, R59, R64, R65, R66, R67...
R7, R8, R9, R11, R18

Suggested solution

Please check the description, value and details of the identified parts using the PCB Visualizer, if they are acceptable please give your approval so that we may continue with your order.

3. Please check: We suggest the use of Alternative/Generic Parts for automotive

Our engineers would like to suggest alternate/generic parts for following component reference designators, please provide your approval so that we may continue with your order.

R13, R14, R15, R16, R22, R23...
R27, R30, R31, R45, R46, R62, R63

Suggested solution

Please check the description, value and details of the identified parts using the PCB Visualizer, if they are acceptable please give your approval so that we may continue with your order.

4. Please check: Reference Designator with Multiple Descriptions in the BOM File

Our engineers have found there are two different descriptions in BOM for the following reference designators.

- For "**C43, C44**" the BOM file description is "**Value:-1.5uf**" while the identified part "**GPC0603105-6.3**" which is "**Value:-1uf**".
- For "**IC8**" the BOM file description is " **Manufacturer: NATIONAL SEMICONDUCTOR**" while the identified part "**DS90LV028AQMA/NOPB**" which is "**Manufacturer: Texas Instruments**".
- For "**J4**" the BOM file description is " **Manufacturer: TYCO**" while the identified part " **1888247-1**" which is "**Manufacturer: TE Connectivity**".
- For "**C30, C34,..;**" the BOM file description is "**Value:-50v**" while the identified part "**MC0402B102K160CT**" which is "**Value:-16v**".

Suggested solution

We have continued with the identified parts in PCBA Visualizer.

5. Please check: Missing Manufacturer Part Numbers

Our engineers have found that the manufacturer part numbers were not provided for some reference designators in PCBA visualizer.

C12
C39
C64
C73
C1, C2, C3, C4, C5, C6, C7, C8...
C30, C34, C37, C41
R1
R26
R61
R12, R34, R52, R53, R54, R55
R13, R14, R15, R16, R22, R23...
R2, R3, R4, R32, R33, R36, R38, R57
R27, R30, R31, R45, R46, R62, R63
R35, R37
R47, R48, R49
R5, R6
R50, R51, R56
R58, R59, R64, R65, R66, R67...
R7, R8, R9, R11, R18

Suggested solution

We have continued with the identified part in PCBA Visualizer.

6. Please check: Incomplete Manufacturer Part Numbers

Our engineers have found that In Bom file Description For Following Reference designator Manufacturer Part Number provided is incomplete.

IC1
IC8
IC18
IC5, IC6, IC7
L1, L2
LD1, LD2, LD3

Suggested solution

We have continued with the identified part in PCBA Visualizer.

7. Action Required: Unable to Identify Manufacturer Part Numbers from Description

Our engineers found that the description for the following reference designators is insufficient to suggest the Manufacturer Part Number.

IC4

Requested action

Please provide a manufacturer part numbers for above reference designators.

8. Please check: Manufacturer Part Numbers and Identified Part

Numbers do not Match

Our engineers have found that the following reference designators manufacturer part numbers do not match with the identified part number.

QZ1

Suggested solution

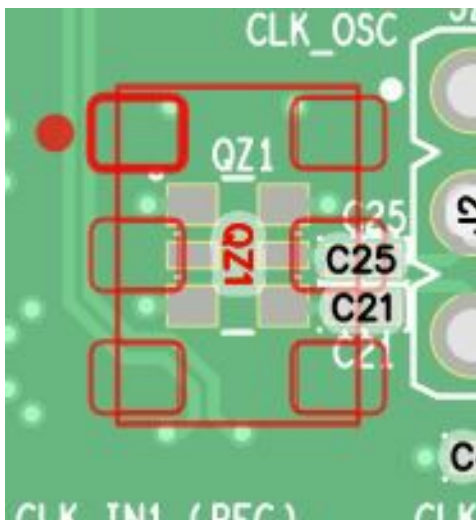
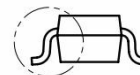
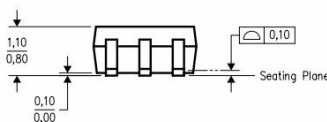
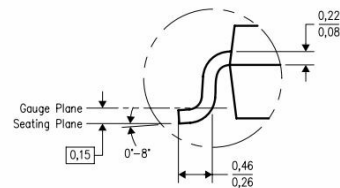
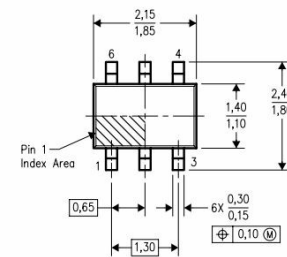
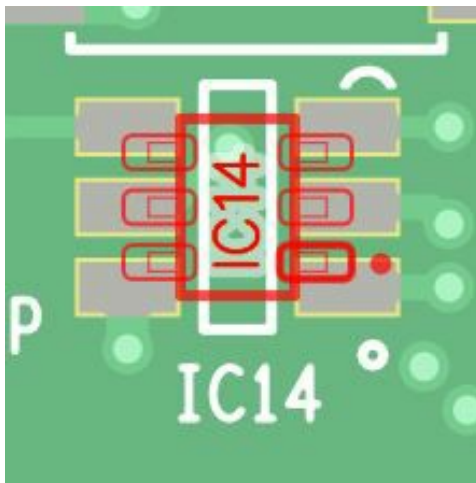
We have continued with the identified parts in PCBA Visualizer.

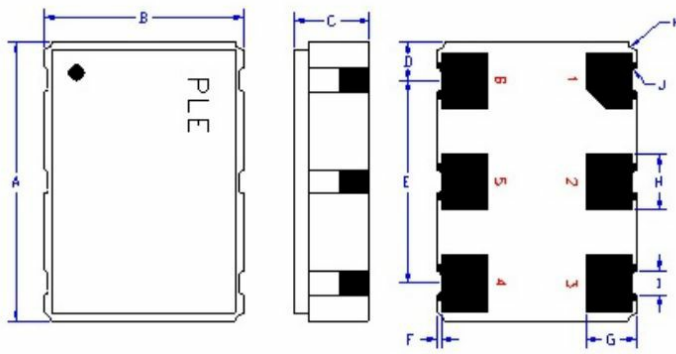
9. Action Required: Footprint Defined in the BOM Does Not Match the Gerber Data

Our engineers have found that the footprint for the following reference designators as specified in your BOM do not match the gerber data. Either the footprint used during PCB layout is incorrect or manufacturer part numbers given in BOM is incorrect.

IC14, IC16

QZ1





	Inches	mm
A	0.276 \pm 0.006	7.00 \pm 0.15
B	0.197 \pm 0.006	5.00 \pm 0.15
C	0.067 max	1.70 max
D ¹	0.038	0.96
E ¹	0.200	5.08
F ¹	0.004	0.10
G ¹	0.050	1.27
H ¹	0.055	1.40
I ¹	0.024	0.60
J ¹	0.004R	0.10R
K ¹	0.008R	0.20R

Requested action

Please provide us with the correct Manufacturer part numbers as per PCB layout.

10.**Action Required: Manufacturer Part Number Out of Stock/Insufficient Stock**

Our engineers have found that the following manufacturer part numbers are either out of stock or there is insufficient stock available from our suppliers.

HDMI-19-01-X-SM (for J7)
SG73S1JTTD33R0F (for R47, R48, R49)
TPS799185DDCTG4 (for REG1)

Requested action

Please provide us with alternate parts together with the relative information or supply the components directly to us for assembly.

11.**Please check: Suggested Alternative Parts for Out of Stock/Insufficient Stock of Requested Parts**

Our engineers have found the following manufacturer part numbers are either out of stock or there is insufficient stock with our standard suppliers.

AR02BTC7500 (for R50, R51, R56)
RND 1500402B103J160NU (for C73)

Suggested solution

We would like to suggest using the alternate manufacturer part numbers.

RT0402BRD07750RL (for R50, R51, R56)

C0402C103J4RACTU (for C73)

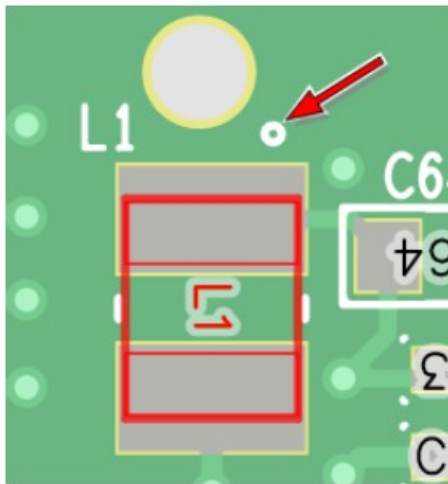
Please approve the use of these alternatives.

12.

Please check: Polarity Marking Found For Non-Polarized Components

Our engineers have found that the Polarity marking found in legend layer but part is non polarized for following reference designators in your Gerber data.

L1, L2



Suggested solution

We have ignored the polarity marking in PCBA Visualizer.

Useful information on technical issues:

Detailed information on how to provide the best possible layout data can be found:

1. [10 rules for better data](#)
2. [Eurocircuits PCB design guidelines](#)

EAGLE and Altium users can download specific Eurocircuits DRC rules here

1. [Eurocircuits DRC rules for EAGLE V6.x](#) software from CadSoft
2. [Eurocircuits DRC rules for Altium Designer](#) software from Altium

Detailed specifications of all Eurocircuits services [can be found here.](#)

A clarification on **TECHNICAL TERMS & ABBREVIATIONS** [can be found here.](#)

Contact Eurocircuits.

Should you require further technical assistance to help you to continue your order, please do not hesitate to contact us. The fastest solution is to email your question to our head office at euro@eurocircuits.com or by phone on +32 15 28 16 30. We will make sure that your question is answered as soon as possible.