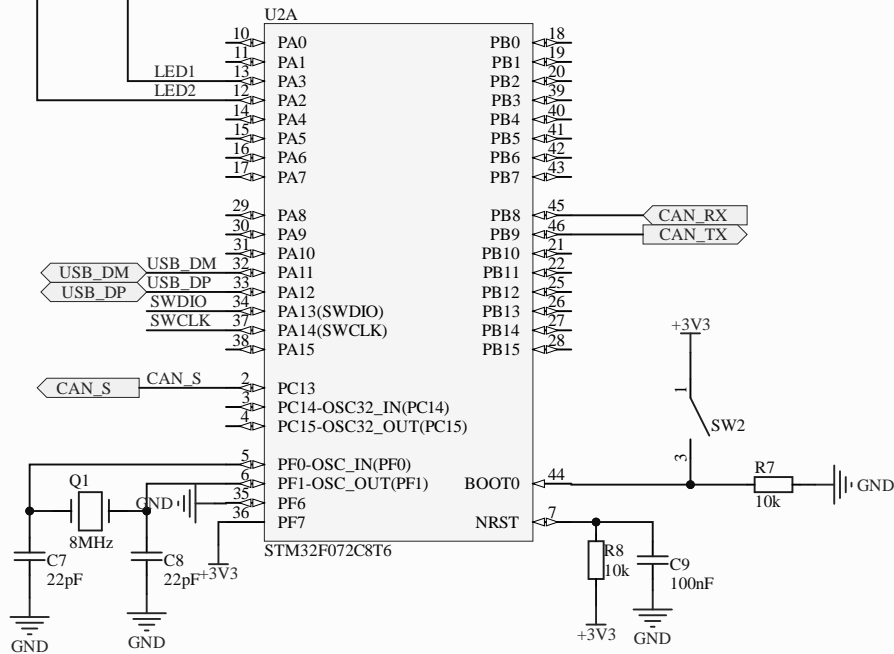
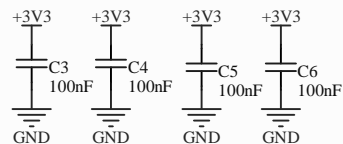
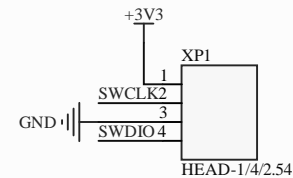
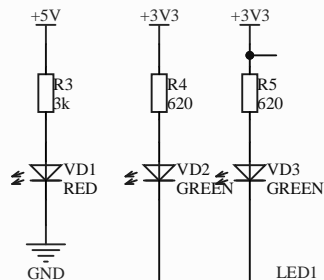
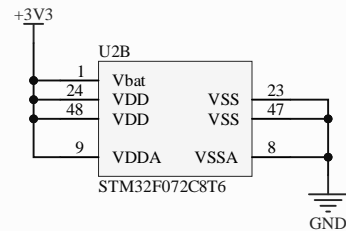


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| Size A4 | Number | Revision |
| Date: | 6.09.2022 | Sheet of |
| File: | Z:\altium_projects\can_usb\CAN_SchDoc | Drawn By: |



| Title | | |
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| Size | Number | Revision |
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| File: | Z:\altium_projects\can_usb\MCU.SchDoc Drawn By: | |

A

B

C

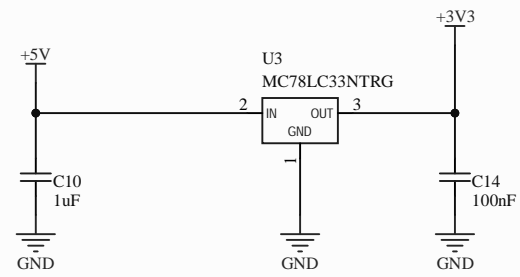
D

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| Title | | |
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A

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C

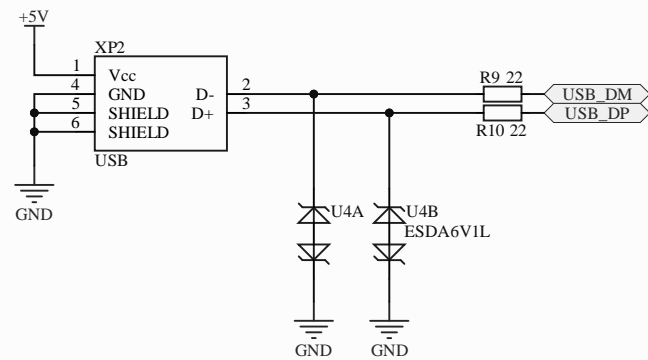
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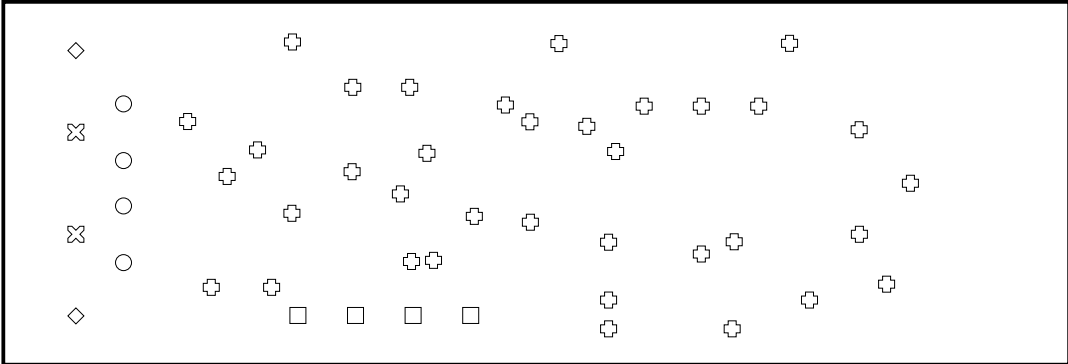
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B

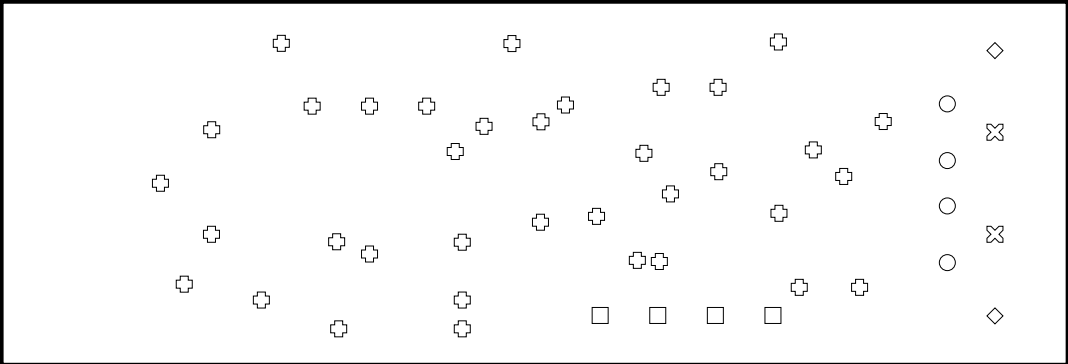
C

D

Drill Drawing Top View (Scale 3:1)



Drill Drawing Bottom View (Scale 3:1)



Drill Table

| Symbol | Count | Hole Size | Plated | Hole Type | Via / Pad | Hole Tolerance |
|--------|-------|-----------|------------|-----------|-----------|----------------|
| ⊕ | 36 | 0mm | Plated | Round | Via | |
| □ | 4 | 1mm | Plated | Round | Pad | |
| ○ | 4 | 1mm | Plated | Round | Pad | |
| ⊗ | 2 | 1mm | Non-Plated | Round | Pad | |
| ◇ | 28 | 1mm | Plated | Slot | Pad | |
| | | | | | | |

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| | | | | | | | | |
|--|--|--------------------------------------|-------------|---------|------------|-----------------------------------|----------|--------------|
| | | UNLESS OTHERWISE SPECIFIED: | | NAME | DATE | | | |
| | | DIMENSIONS ARE IN INCHES | DRAWN | Romanov | 09.06.2022 | TITLE USB to CAN converter | | |
| | | TOLERANCES: | CHECKED | | | | | |
| | | FRACTIONAL± | ENG APPR. | | | | | |
| | | ANGULAR: MACH± BEND ± | MFG APPR. | | | | | |
| | | TWO PLACE DECIMAL ± | Q.A. | | | | | |
| | | THREE PLACE DECIMAL ± | COMMENTS: | | | SIZE | DWG. NO. | |
| | | INTERPRET GEOMETRIC TOLERANCING PER: | | | | | | |
| | | MATERIAL | | | | | | |
| | | FINISH | NEXT ASSY | USED ON | | | | |
| | | DO NOT SCALE DRAWING | APPLICATION | | SCALE: | 1:1 | WEIGHT: | SHEET 1 OF 3 |

A

B

C

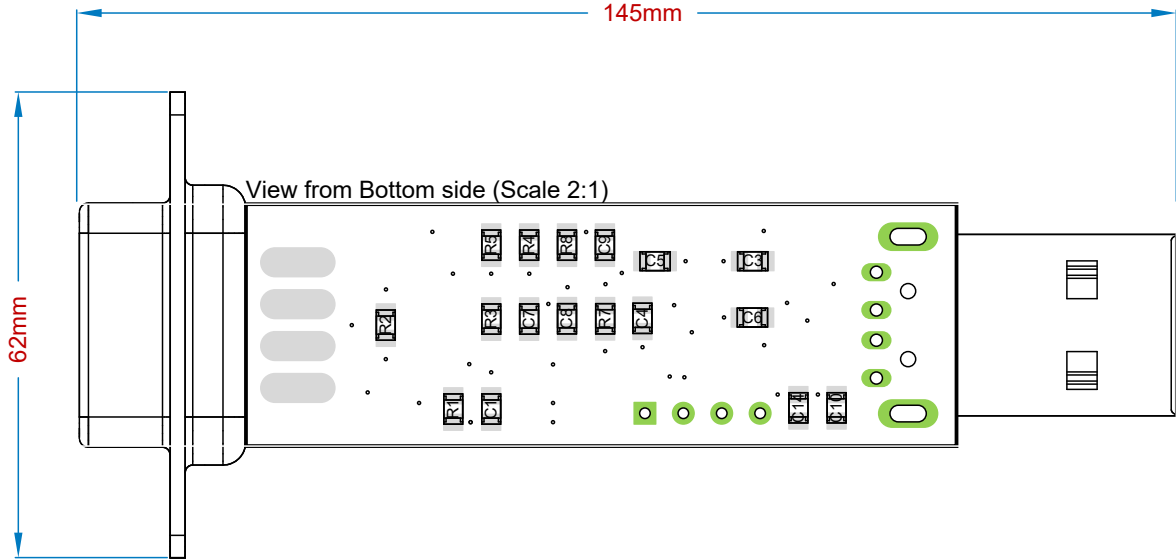
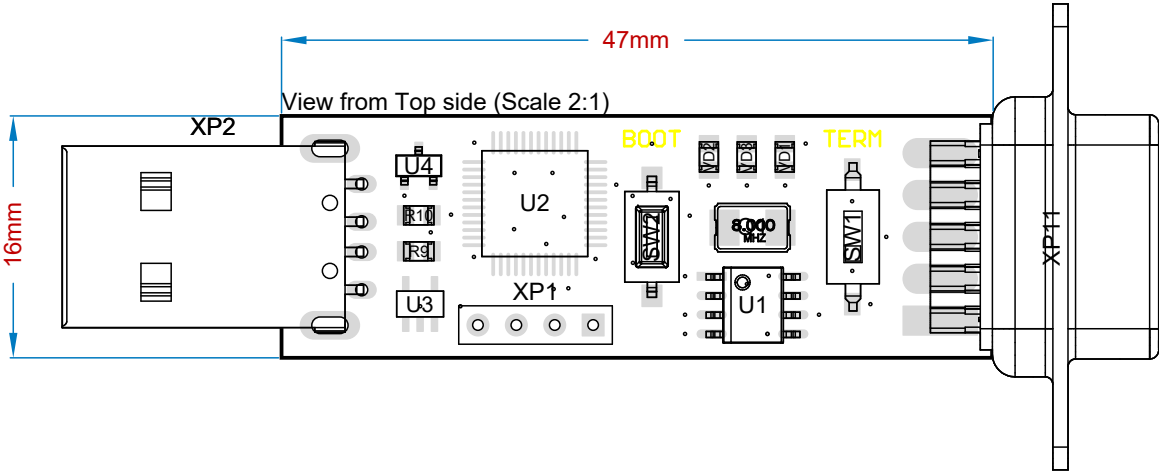
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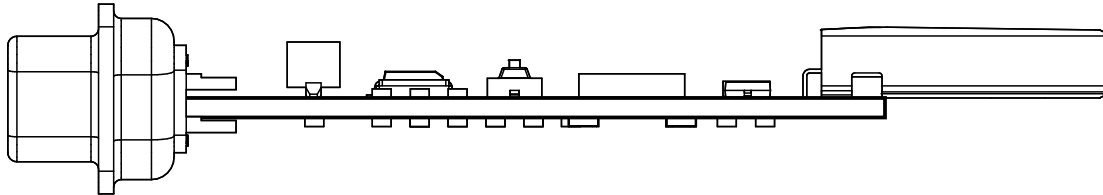
1

2

2



View from Back side (Scale 2:1)



Bill Of Materials

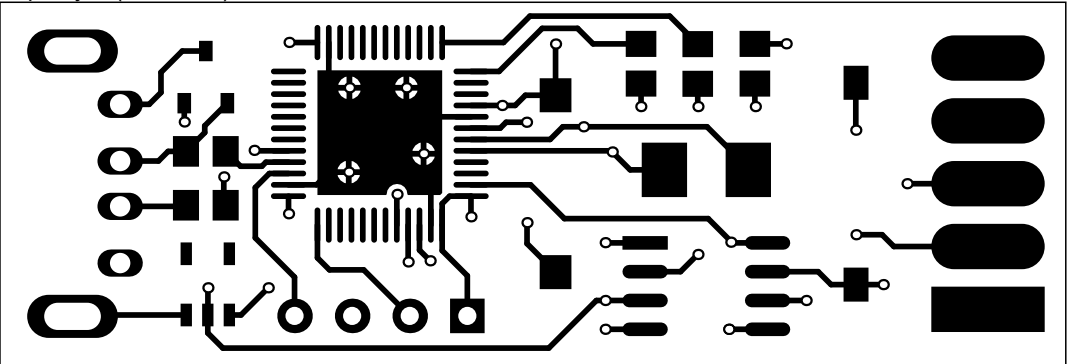
| Line # | Designator | Comment | Quantity |
|--------|------------------------|---------------|----------|
| 1 | C1, C3, C4, C5, C6, C9 | 100nF | 6 |
| 2 | C7, C8 | 22pF | 2 |
| 3 | C10 | 1uF | 1 |
| 4 | C14 | 100nF | 1 |
| 5 | Q1 | 8MHz | 1 |
| 6 | R1, R7, R8 | 10k | 3 |
| 7 | R2 | 120 | 1 |
| 8 | R3 | 3k | 1 |
| 9 | R4, R5 | 620 | 2 |
| 10 | R9, R10 | 22 | 2 |
| 11 | SW1 | SW_DIP/2.54 | 1 |
| 12 | SW2 | SW_SMD_6/3.7 | 1 |
| 13 | U1 | TJA1051 | 1 |
| 14 | U2 | STM32F072C8T6 | 1 |
| 15 | U3 | MC78LC33NTRG | 1 |
| 16 | U4 | ESDA6V1L | 1 |
| 17 | VD1 | RED | 1 |
| 18 | VD2, VD3 | GREEN | 2 |
| 19 | XP1 | HEAD-1/4/2.54 | 1 |
| 20 | XP2 | USB | 1 |
| 21 | XP11 | DB9M_CABLE | 1 |

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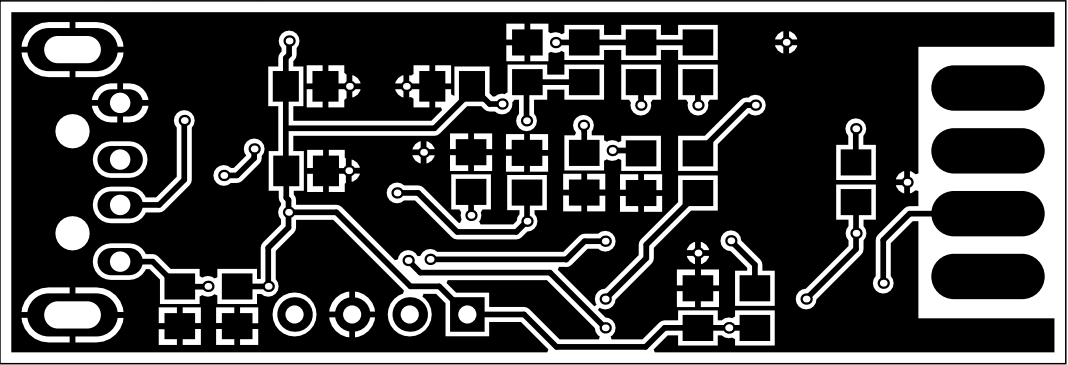
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| | | | | | | | | |
|-----------|---------|--------------------------------------|----------------------|---------|------------|-----------------------------------|----------|--------------|
| | | UNLESS OTHERWISE SPECIFIED: | | NAME | DATE | TITLE USB to CAN converter | | |
| | | DIMENSIONS ARE IN INCHES | DRAWN | Romanov | 09.06.2022 | | | |
| | | TOLERANCES: | CHECKED | | | | | |
| | | FRACTIONAL± | ENG APPR. | | | | | |
| | | ANGULAR: MACH± BEND ± | MFG APPR. | | | | | |
| | | TWO PLACE DECIMAL ± | Q.A. | | | COMMENTS: | | |
| | | THREE PLACE DECIMAL ± | | | | | | |
| | | INTERPRET GEOMETRIC TOLERANCING PER: | | | | | | |
| | | MATERIAL | | | | SIZE | DWG. NO. | |
| | | FINISH | | | | | | |
| NEXT ASSY | USED ON | APPLICATION | DO NOT SCALE DRAWING | | | SCALE: 1:1 | WEIGHT: | SHEET 2 OF 3 |

Top Layer (Scale 3:1)



Bottom Layer (Scale 3:1)



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|-----------|---------|--------------------------------------|----------------------|---------|------------|-----------------------------------|----------|--------------|
| | | UNLESS OTHERWISE SPECIFIED: | | NAME | DATE | TITLE USB to CAN converter | | |
| | | DIMENSIONS ARE IN INCHES | DRAWN | Romanov | 09.06.2022 | | | |
| | | TOLERANCES: | CHECKED | | | | | |
| | | FRACTIONAL± | ENG APPR. | | | | | |
| | | ANGULAR: MACH± BEND ± | MFG APPR. | | | | | |
| | | TWO PLACE DECIMAL ± | Q.A. | | | COMMENTS: | | |
| | | THREE PLACE DECIMAL ± | | | | | | |
| | | INTERPRET GEOMETRIC TOLERANCING PER: | | | | | | |
| | | MATERIAL | | | | SIZE | DWG. NO. | |
| | | FINISH | | | | | | |
| NEXT ASSY | USED ON | APPLICATION | DO NOT SCALE DRAWING | | | SCALE: 1:1 | WEIGHT: | SHEET 3 OF 3 |
| | | | | | | | | |