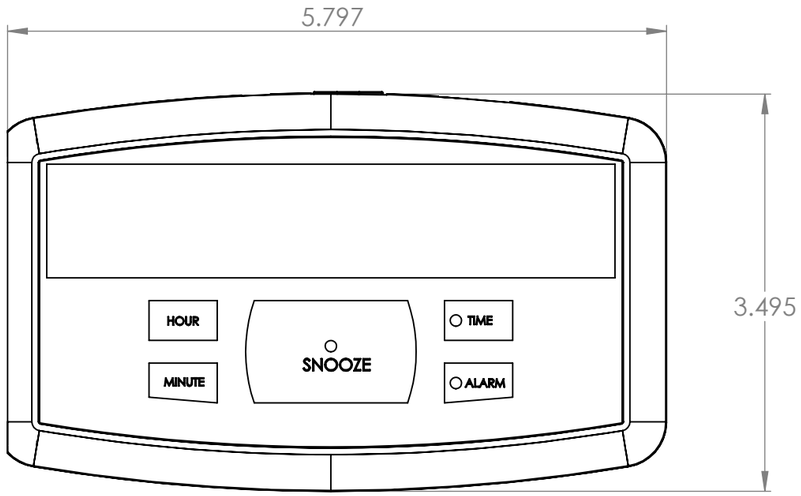


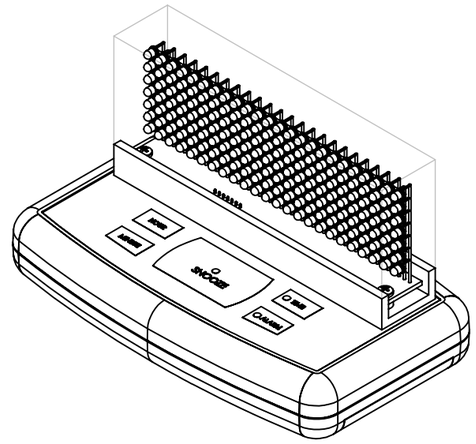

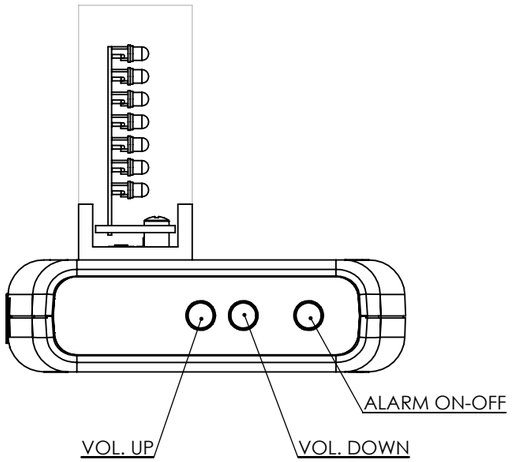


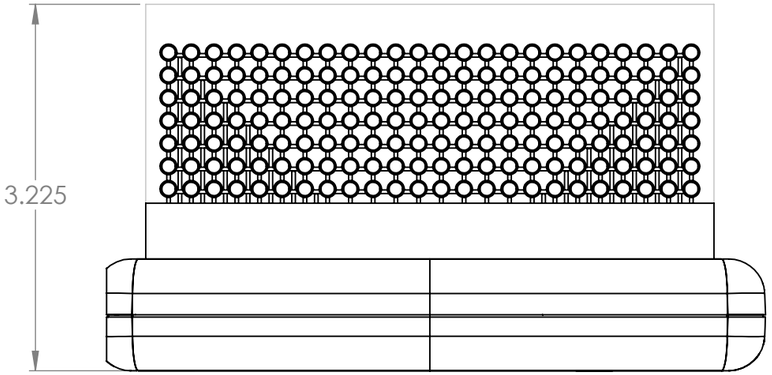


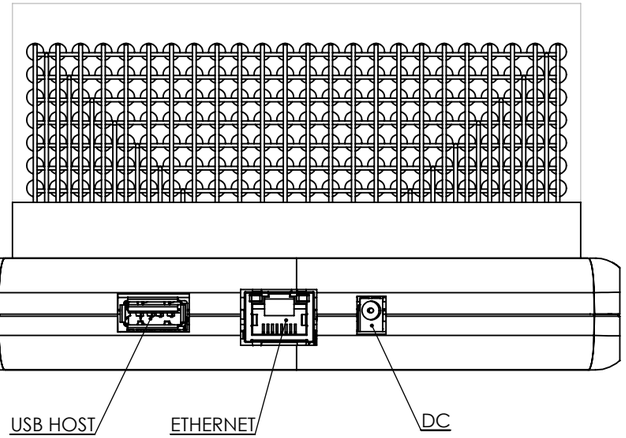


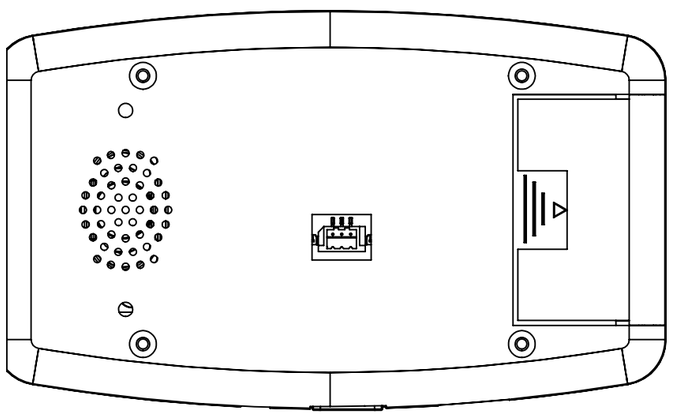

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NOTES :

PROJECT: ALARM CLOCK

TITLE: FINAL ASSEMBLY (MODEL A) DIMENSIONS

REV: A

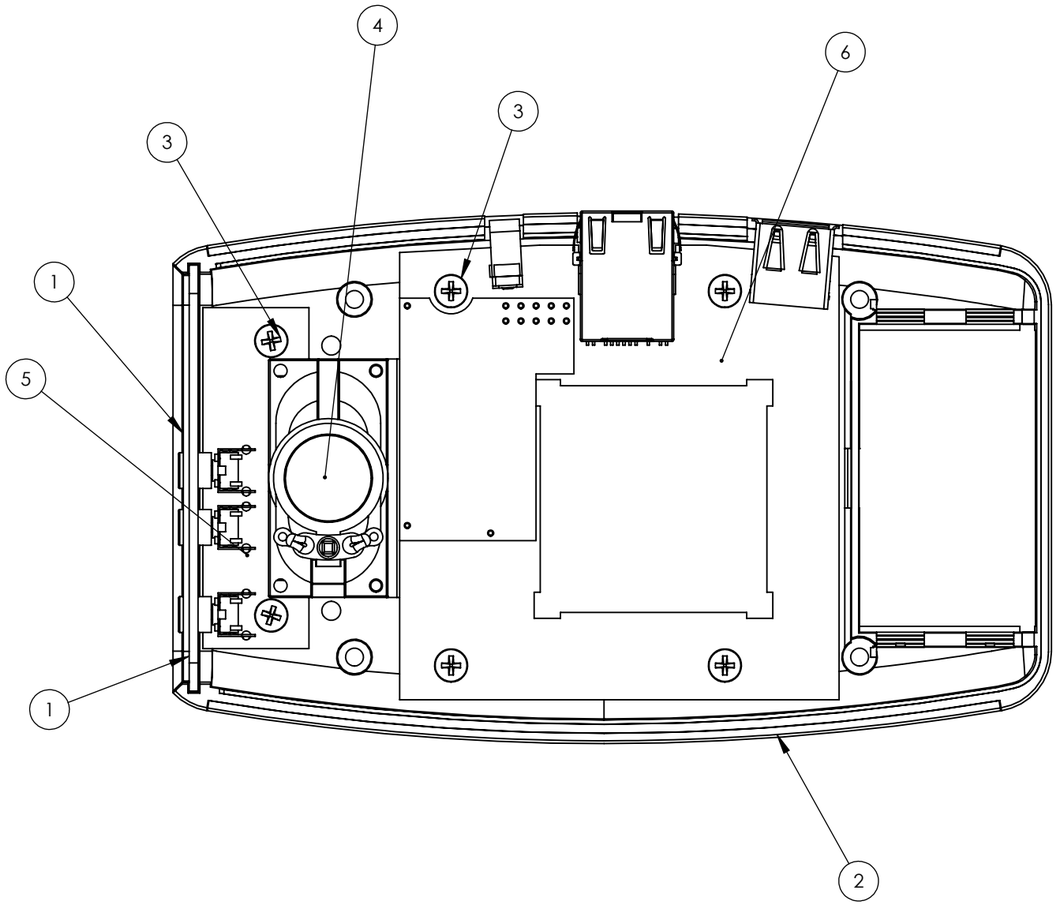
| PART # | DOCUMENT # | UNITS | SIZE |
|---|---|---|---|
| -- | CLK-DWG-25 | INCHES [MM] | B |

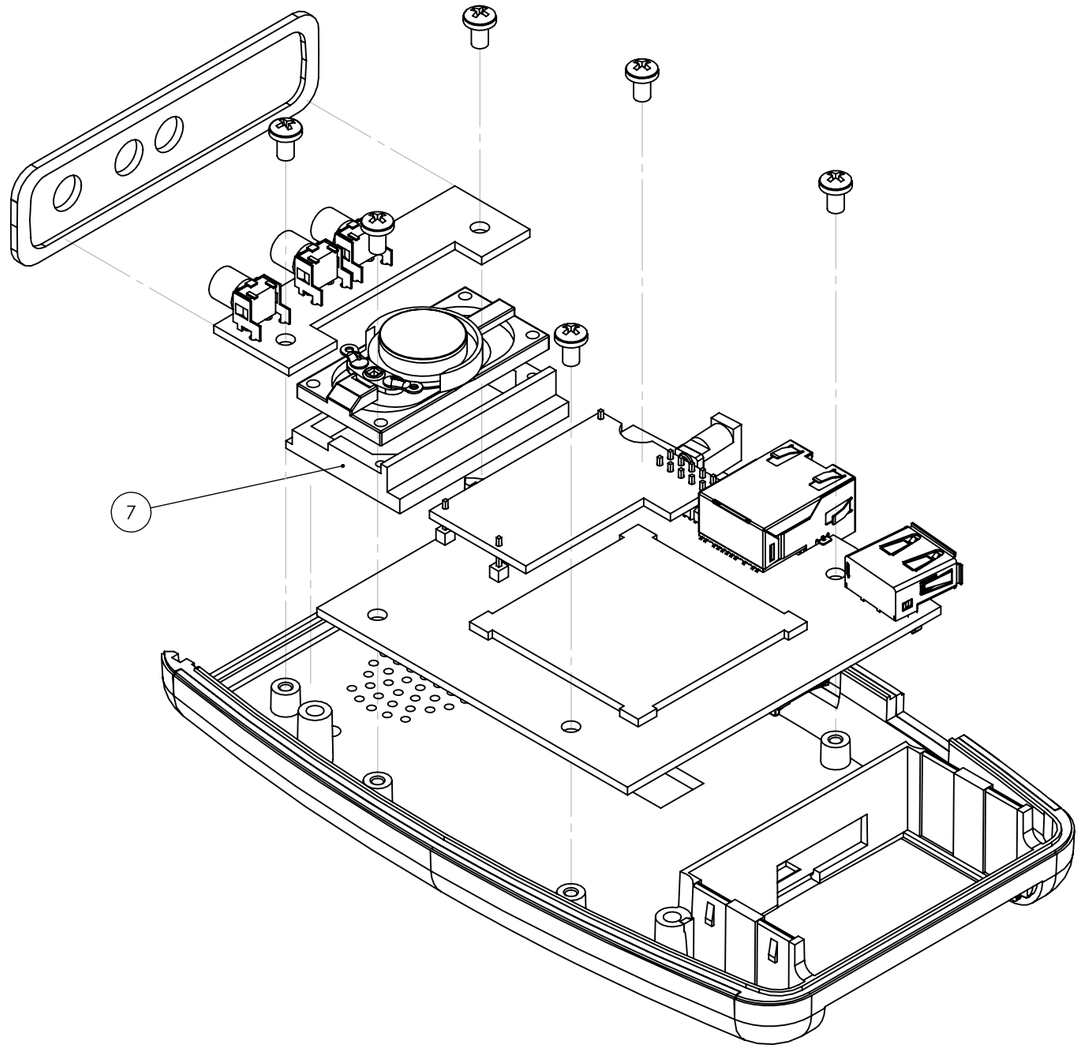
| MATERIAL | FINISH |
|---|---|
| -- | -- |

| DATE | APVD BY : | SCALE | SHEET |
|---|---|---|---|
| 4/22/2015 | | 3:4 | 1 OF 6 |

FILE : CLK-DWG-25

| ITEM NO. | PART NUMBER | DESCRIPTION | QTY. |
|---|---|---|---|
| 1 | 1553DBKBAT | ABS Box 5.80X3.50X0.98" Black (End panel) | 1 |
| 2 | 1553DBKBAT | ABS Box 5.80X3.50X0.98" Black (Bottom panel) | 1 |
| 3 | PH-C-0440-0019 | Phillips Panhead Screw - #4-40 x 3-16" | 6 |
| 4 | AS04008CO-2-R | Speaker 8 ohm 1.5W | 1 |
| 5 | CLK-AS-04 | Left panel PCB assembly | 1 |
| 6 | CLK-AS-05 | Controller PCB Assembly | 1 |
| 7 | CLK-STR-02 | Speaker holder | 1 |

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NOTES :

PROJECT
ALARM CLOCK

TITLE
FINAL ASSEMBLY (MODEL A)
MOTHERBOARD / LEFT PANEL PCB

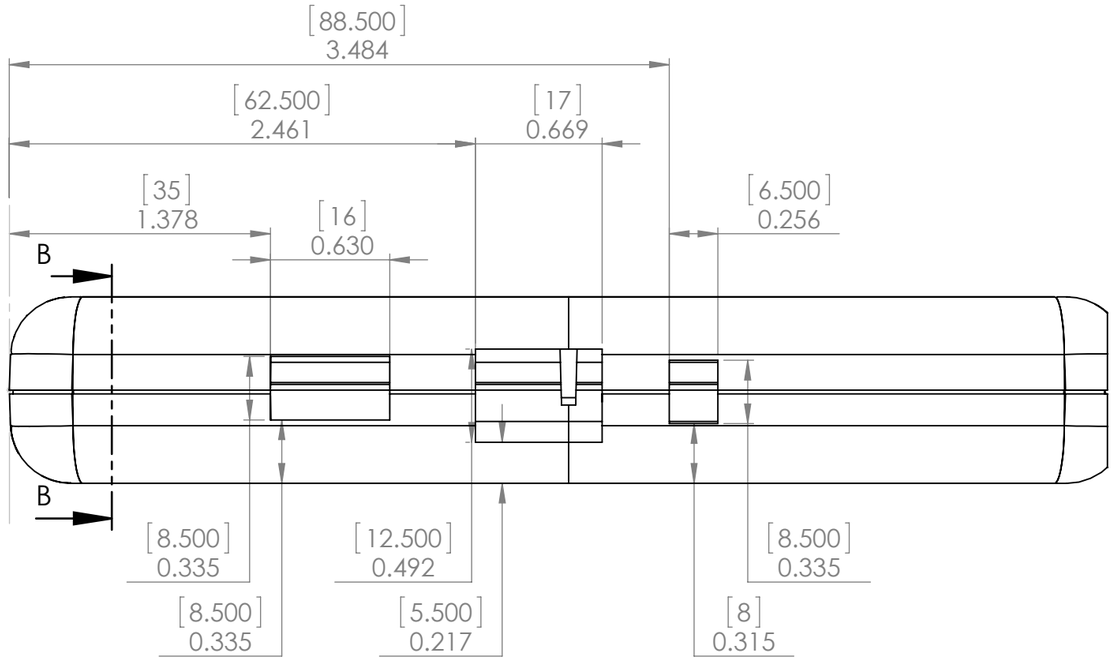
REV
A

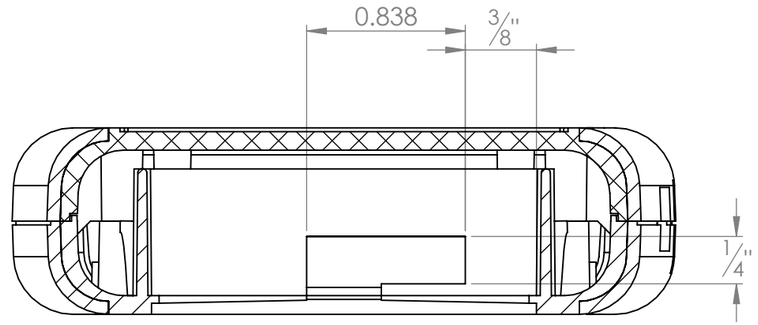
| PART # | DOCUMENT # | UNITS | SIZE |
|---|---|---|---|
| -- | CLK-DWG-25 | INCHES [MM] | B |

| MATERIAL | FINISH |
|---|---|
| -- | -- |

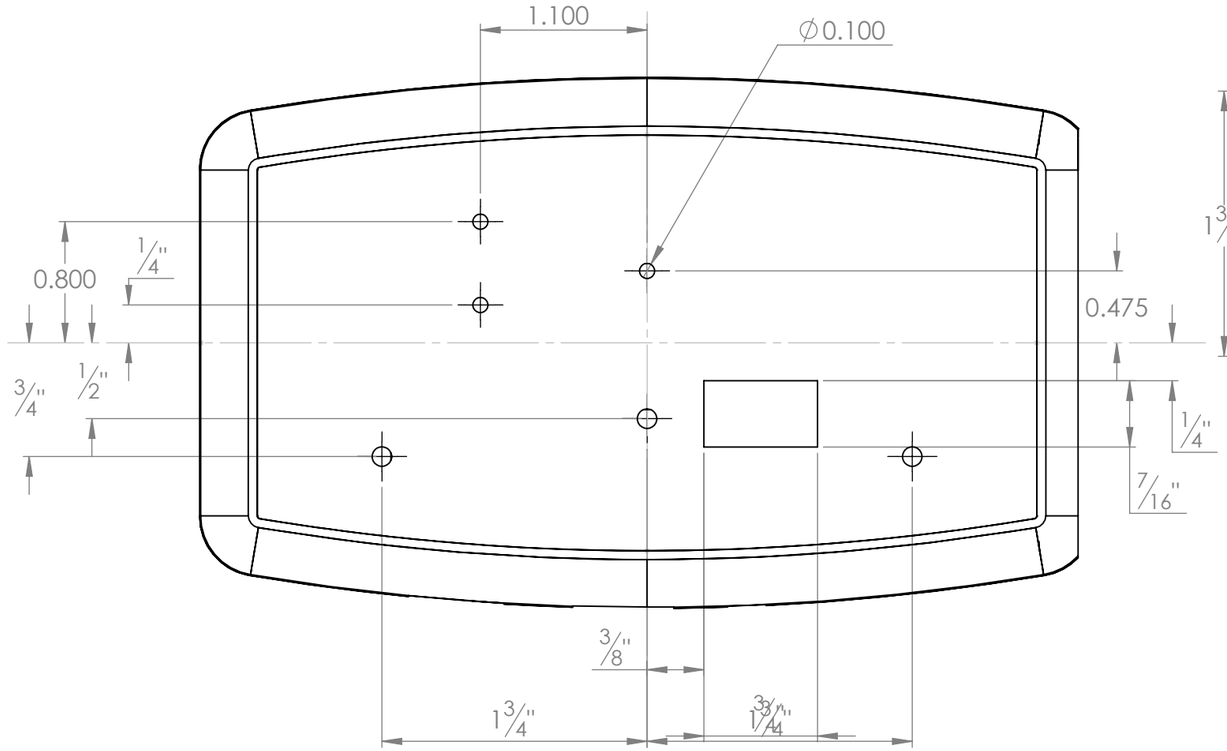
| DATE 4/22/2015 | APVD BY : | SCALE 1:1 | SHEET 2 OF 6 |
|---|---|---|---|

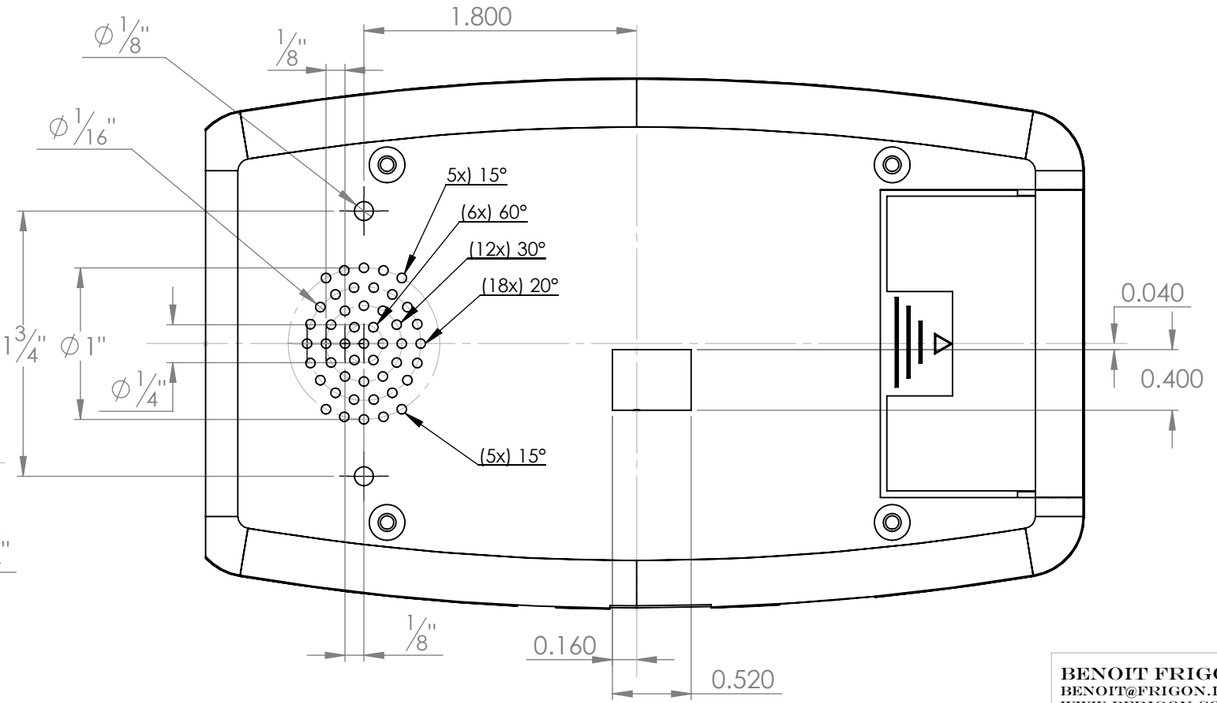
FILE : CLK-DWG-25




SECTION B-B
SCALE 5 : 4

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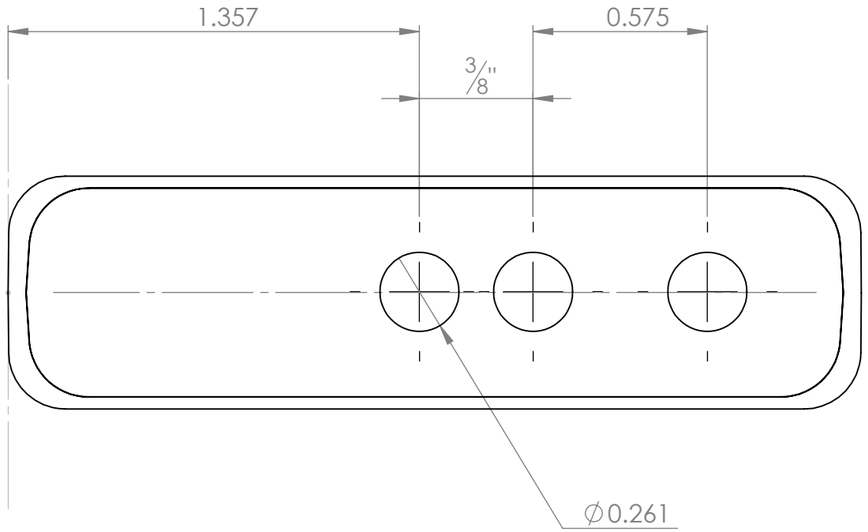
NOTES :

| | | | |
|---|---|---|---|
| PROJECT: ALARM CLOCK | | | |
| TITLE: FINAL ASSEMBLY (MODEL A) 1553D CASE MODIFICATIONS | | | REV: A |
| PART #: -- | DOCUMENT #: CLK-DWG-25 | UNITS: INCHES [MM] | SIZE: B |
| MATERIAL: -- | FINISH: -- | | |
| DATE: 4/22/2015 | APVD BY : | SCALE: 1:1 | SHEET 3 OF 6 |

FILE : CLK-DWG-25

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NOTES :

PROJECT
ALARM CLOCK

TITLE
FINAL ASSEMBLY (MODEL A)
END PANEL

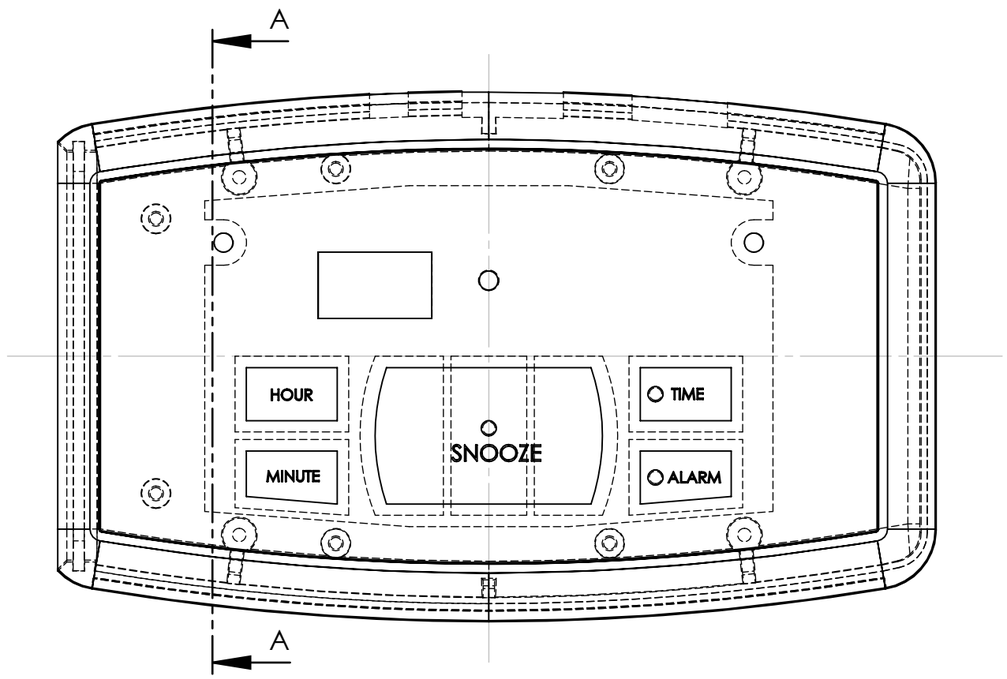
REV
A

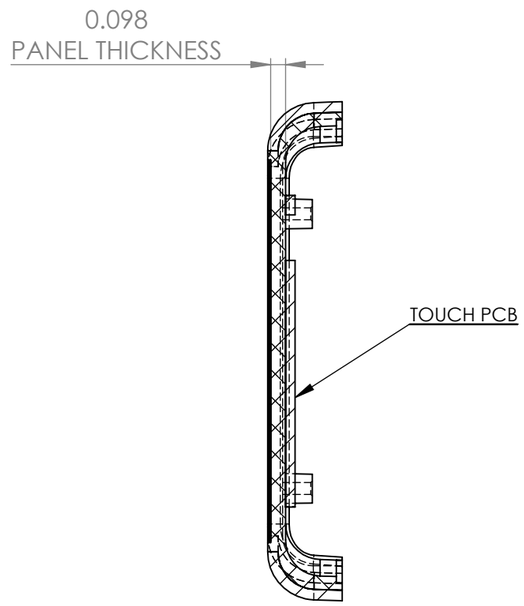
| PART # | DOCUMENT # | UNITS | SIZE |
|---|---|---|---|
| -- | CLK-DWG-25 | INCHES [MM] | B |

| MATERIAL | FINISH |
|---|---|
| -- | -- |

| DATE | APVD BY : | SCALE | SHEET |
|---|---|---|---|
| 4/22/2015 | | 2:1 | 4 OF 6 |

FILE : CLK-DWG-25




SECTION A-A





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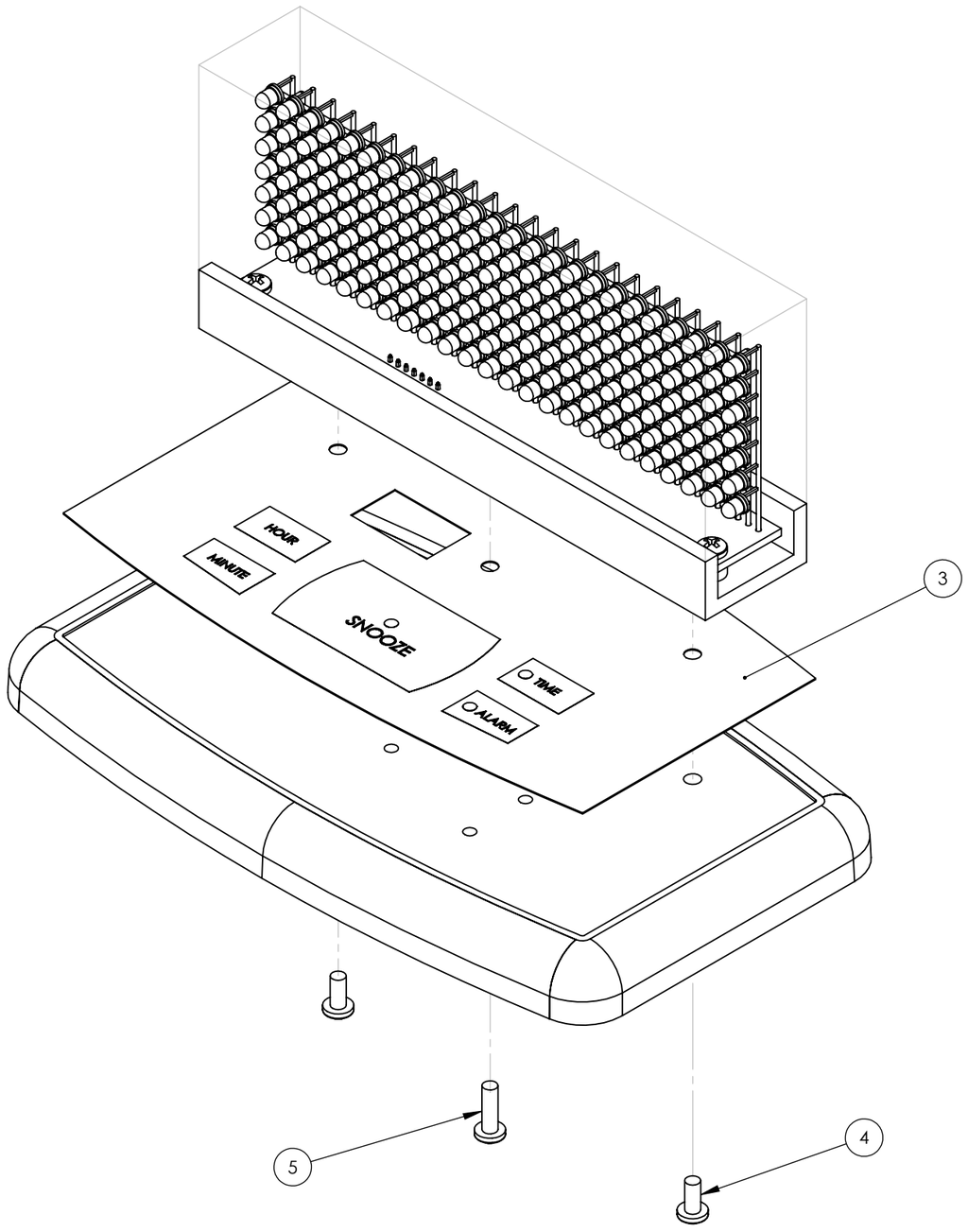
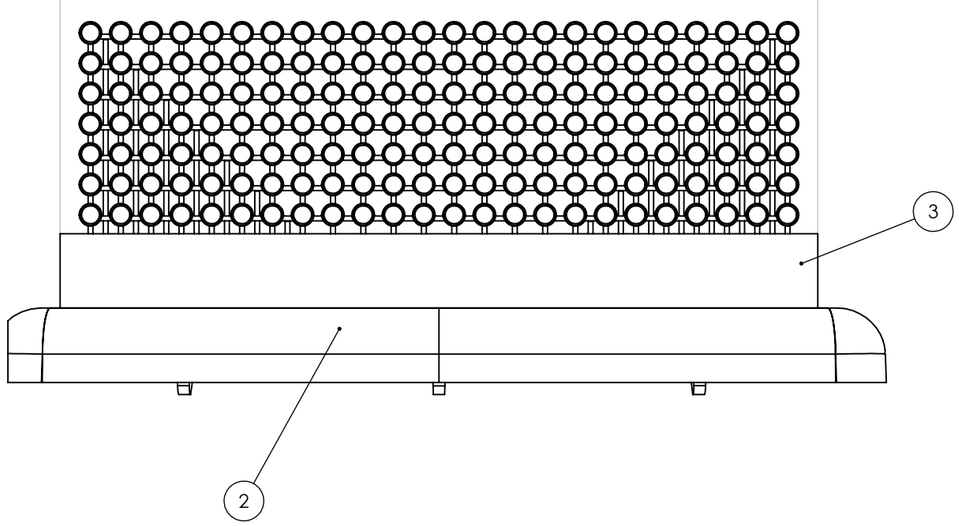
NOTES :

| | | | |
|---|---|---|---|
| PROJECT: ALARM CLOCK | | | |
| TITLE: FINAL ASSEMBLY (MODEL A) TOUCH PCB | | | REV: A |
| PART #: -- | DOCUMENT #: CLK-DWG-25 | UNITS: INCHES [MM] | SIZE: B |
| MATERIAL: -- | | FINISH: -- | |
| DATE: 4/22/2015 | APVD BY : | SCALE: 1:1 | SHEET 5 OF 6 |

FILE : CLK-DWG-25

| ITEM NO. | PART NUMBER | DESCRIPTION | QTY. |
|---|---|---|---|
| 1 | CLK-OVL-01 | Keypad overlay | 1 |
| 2 | 1553DBKBAT | ABS Box 5.80X3.50X0.98" Black (Top panel) | 1 |
| 3 | CLK-AS-02 | Display Assembly (Model A) | 1 |
| 4 | PH-C-0440-0025 | Phillips Panhead Screw - #4-40 x 1-4" | 2 |
| 5 | PH-C-0440-0038 | Phillips Panhead Screw - #4-40 x 3-8" | 1 |

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NOTES :

PROJECT
ALARM CLOCK

TITLE
FINAL ASSEMBLY (MODEL A)
DISPLAY

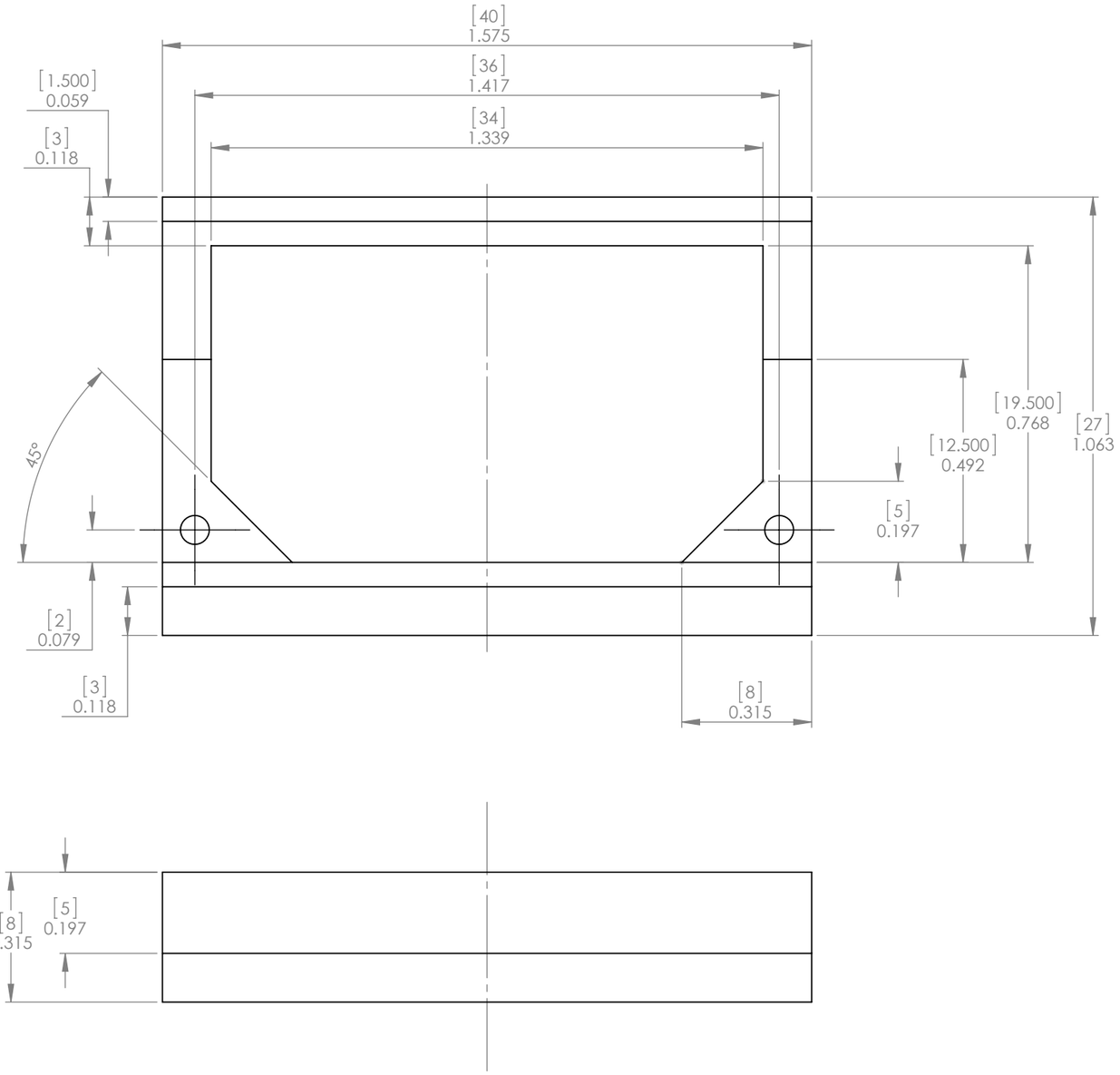
REV
A

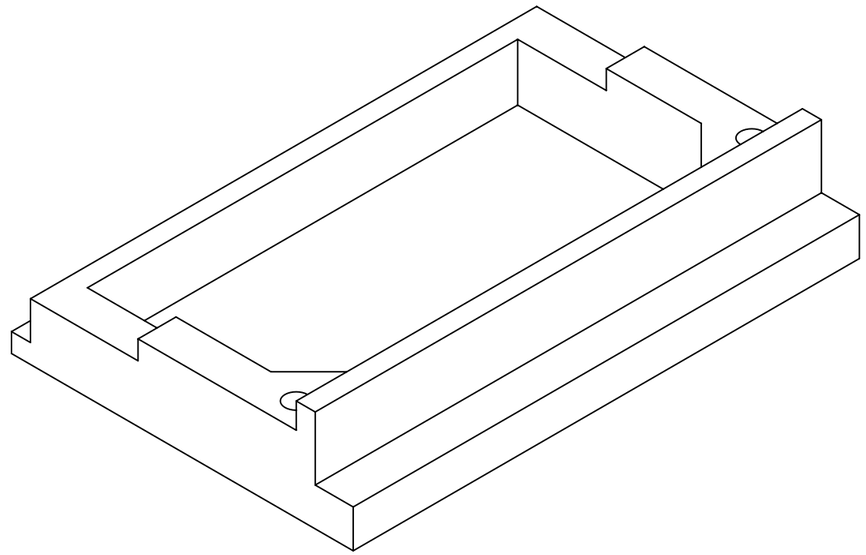
| PART # | DOCUMENT # | UNITS | SIZE |
|---|---|---|---|
| -- | CLK-DWG-25 | INCHES [MM] | B |

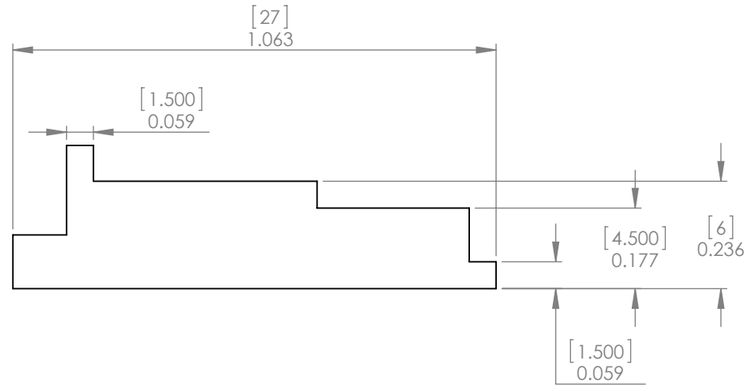
| MATERIAL | FINISH |
|---|---|
| -- | -- |

| DATE | APVD BY : | SCALE | SHEET |
|---|---|---|---|
| 4/22/2015 | | 1:1 | 6 OF 6 |

FILE : CLK-DWG-25







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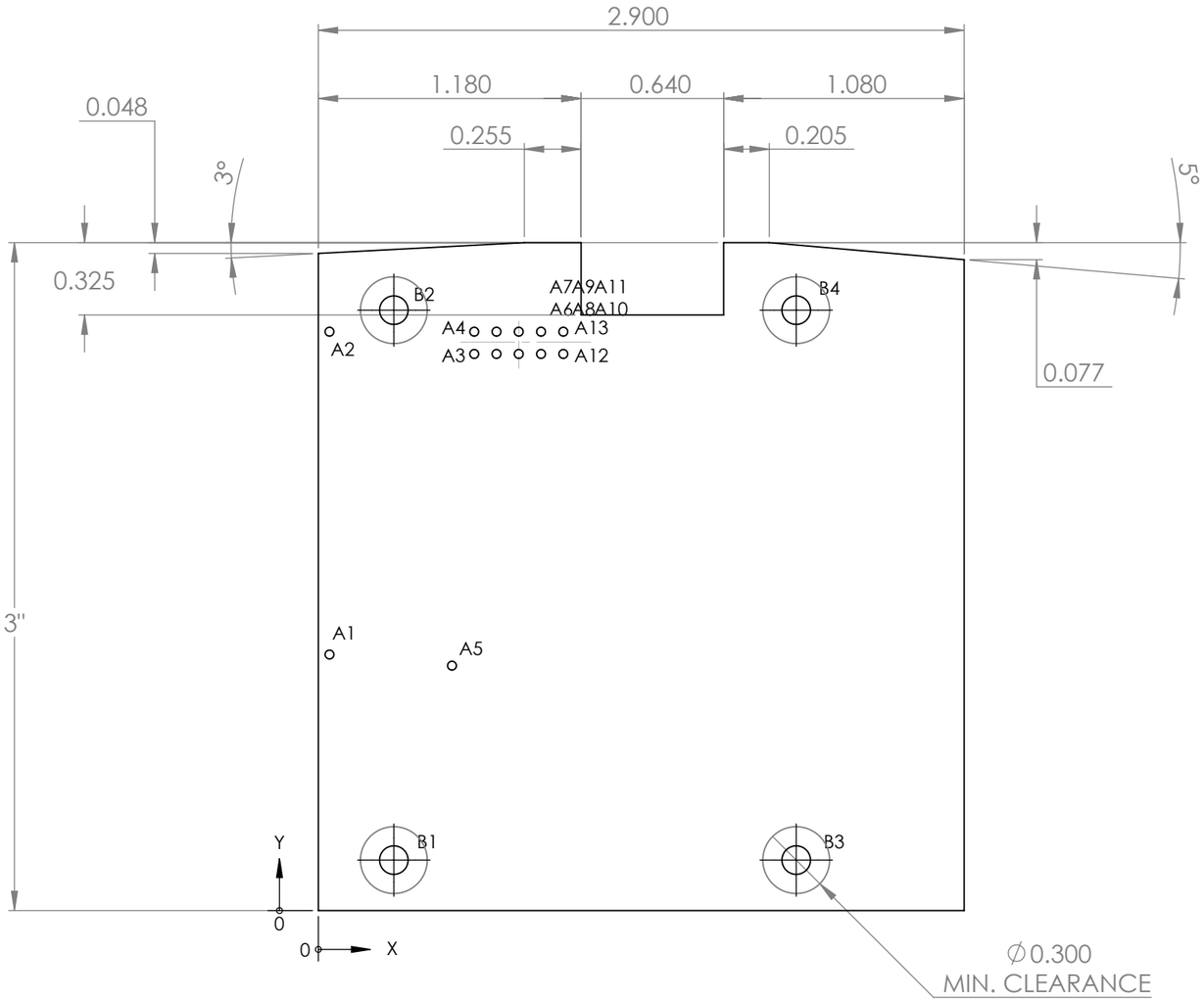
NOTES :

WALL THICKNESS : 1.5MM

EPOXY MIX:
25% CORNSTARCH, 75% CLEAR EPOXY

| | | | |
|---|---|---|---|
| PROJECT: ALARM CLOCK | | | |
| TITLE: SPEAKER HOLDER DIMENSIONS | | | REV: A |
| PART #: CLK-STR-02 | DOCUMENT #: CLK-DWG-11 | UNITS: INCHES [MM] | SIZE: B |
| MATERIAL: TRANSLUCENT WHITE EPOXY | FINISH: - | | |
| DATE 2/8/2015 | APVD BY : | SCALE 3:1 | SHEET 1 OF 1 |

FILE : CLK-DWG-11




| TAG | X LOC | Y LOC | SIZE |
|---|---|---|---|
| A1 | 0.05 | 1.15 | ∅ 0.040 ↧ 0.380 |
| A2 | 0.05 | 2.60 | |
| A3 | 0.70 | 2½" | |
| A4 | 0.70 | 2.60 | |
| A5 | 0.60 | 1.10 | |
| A6 | 0.80 | 2½" | |
| A7 | 0.80 | 2.60 | |
| A8 | 0.90 | 2½" | |
| A9 | 0.90 | 2.60 | |
| A10 | 1" | 2½" | |
| A11 | 1" | 2.60 | |
| A12 | 1.10 | 2½" | |
| A13 | 1.10 | 2.60 | |
| B1 | 0.34 | 0.23 | ∅ 0.129 THRU ALL |
| B2 | 0.34 | 2.70 | |
| B3 | 2.15 | 0.23 | |
| B4 | 2.15 | 2.70 | |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NOTES :

PROJECT: ALARM CLOCK

TITLE: MOTHERBOARD DIMENSIONS

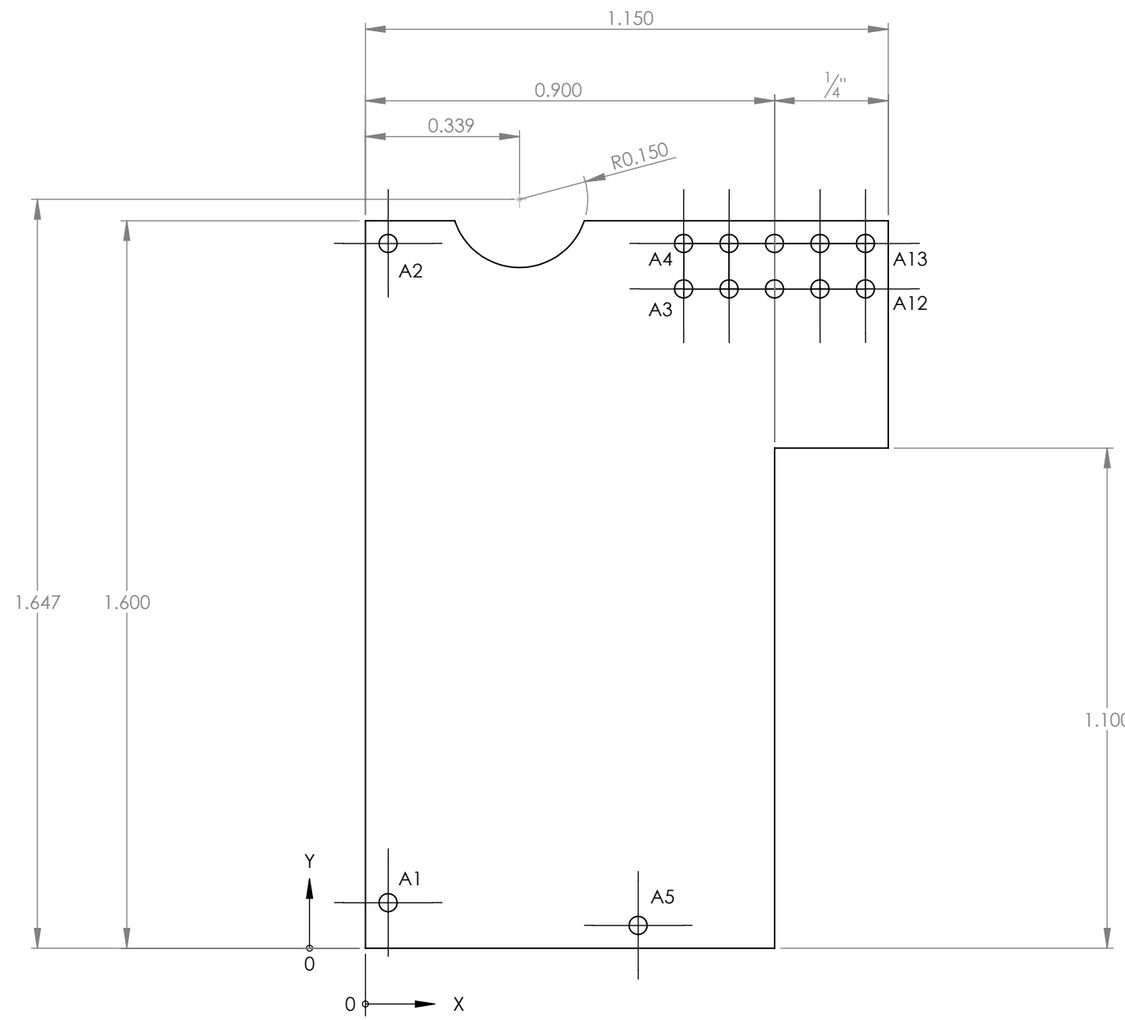
REV: A

| PART # | DOCUMENT # | UNITS | SIZE |
|---|---|---|---|
| CLK-PC-03 | CLK-DWG-03 | INCHES | B |

| MATERIAL | FINISH |
|---|---|
| PCB FR-4 | - |

| DATE | APVD BY : | SCALE | SHEET |
|---|---|---|---|
| 3/21/2015 | | 3:2 | 1 OF 1 |

FILE : CLK-DWG-03




| TAG | X LOC | Y LOC | SIZE |
|---|---|---|---|
| A1 | 0.050 | 0.100 | ∅ 0.040 THRU ALL |
| A2 | 0.050 | 1.550 | |
| A3 | 0.700 | 1.450 | |
| A4 | 0.700 | 1.550 | |
| A5 | 0.600 | 0.050 | |
| A6 | 0.800 | 1.450 | |
| A7 | 0.800 | 1.550 | |
| A8 | 0.900 | 1.450 | |
| A9 | 0.900 | 1.550 | |
| A10 | 1" | 1.450 | |
| A11 | 1" | 1.550 | |
| A12 | 1.100 | 1.450 | |
| A13 | 1.100 | 1.550 | |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NOTES :

PROJECT: ALARM CLOCK

TITLE: BATTERY INTERFACE PCB DIMENSIONS

REV: A

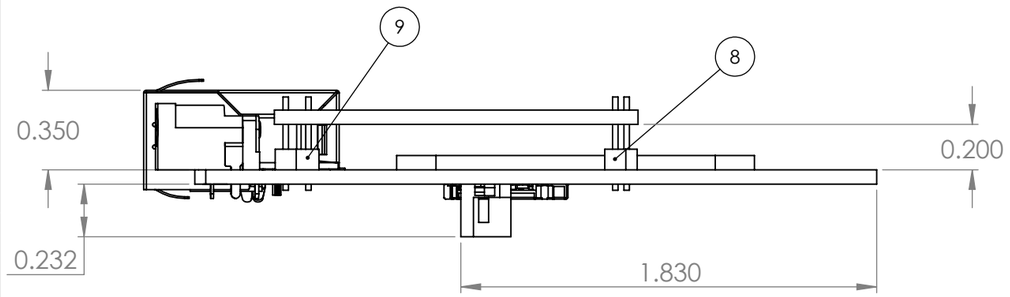
| PART # | DOCUMENT # | UNITS | SIZE |
|---|---|---|---|
| CLK-PC-08 | CLK-DWG-12 | INCHES | B |

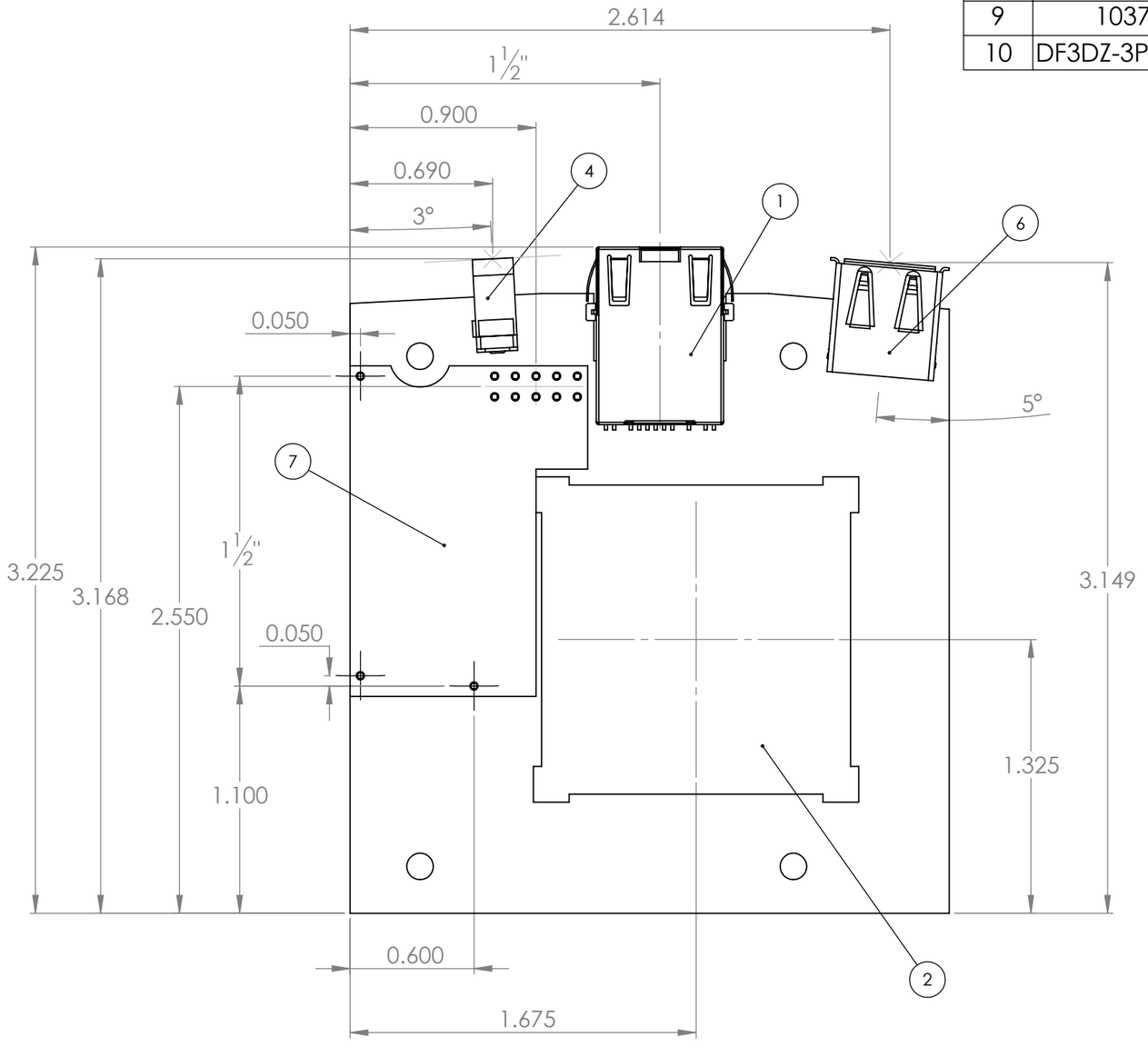
| MATERIAL | FINISH |
|---|---|
| PCB FR4 | - |

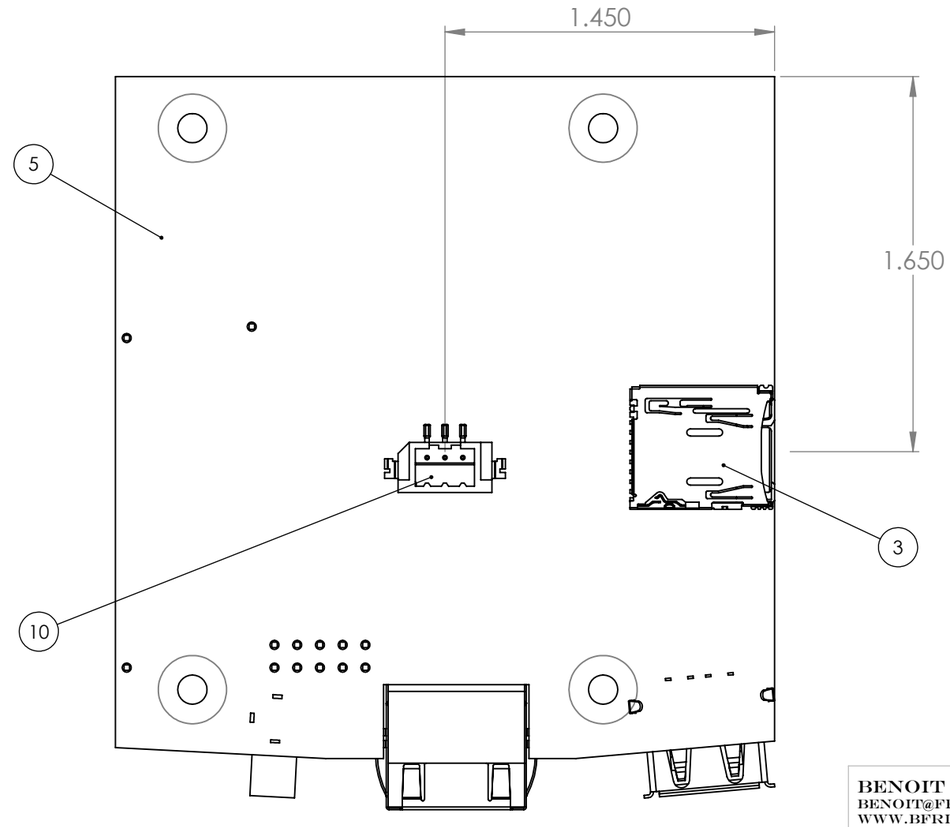
| DATE | APVD BY : | SCALE | SHEET |
|---|---|---|---|
| 4/12/2015 | | 3:1 | 1 OF 1 |

FILE : CLK-DWG-12

| ITEM NO. | PART NUMBER | MFG | DESCRIPTION | QTY. |
|---|---|---|---|---|
| 1 | 7498011122R | Wurth Electronics | Modular connector - RJ45 - w/ magnetics | 1 |
| 2 | Aria G25 | ACME Systems | ARM System-On-Module | 1 |
| 3 | DM3AT-SF-PEJM5 | Hirose Electric | Micro SD card connector | 1 |
| 4 | PJ-031CH | CUI inc | DC barrel jack - 1.1mm I.D / 3.5 mm O.D | 1 |
| 5 | CLK-PC-03 | | Controller PCB | 1 |
| 6 | 292303-1 | TE Connectivity | USB Connector - Type A - Through hole | 1 |
| 7 | CLK-PC-08 | | Battery interface PCB | 1 |
| 8 | 103741-1 | TE Connectivity | 1 pos. header - 0.1" pitch - male | 3 |
| 9 | 103777-5 | TE Connectivity | 2 row, 10 pos. header - 0.1" pitch - male | 1 |
| 10 | DF3DZ-3P-2V(21) | Hirose Electric | Conn Header 3 Pos 2mm SMT | 1 |




NOTES :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PROJECT: ALARM CLOCK

TITLE: CONTROLLER PCB ASSEMBLY COMPONENTS LAYOUT

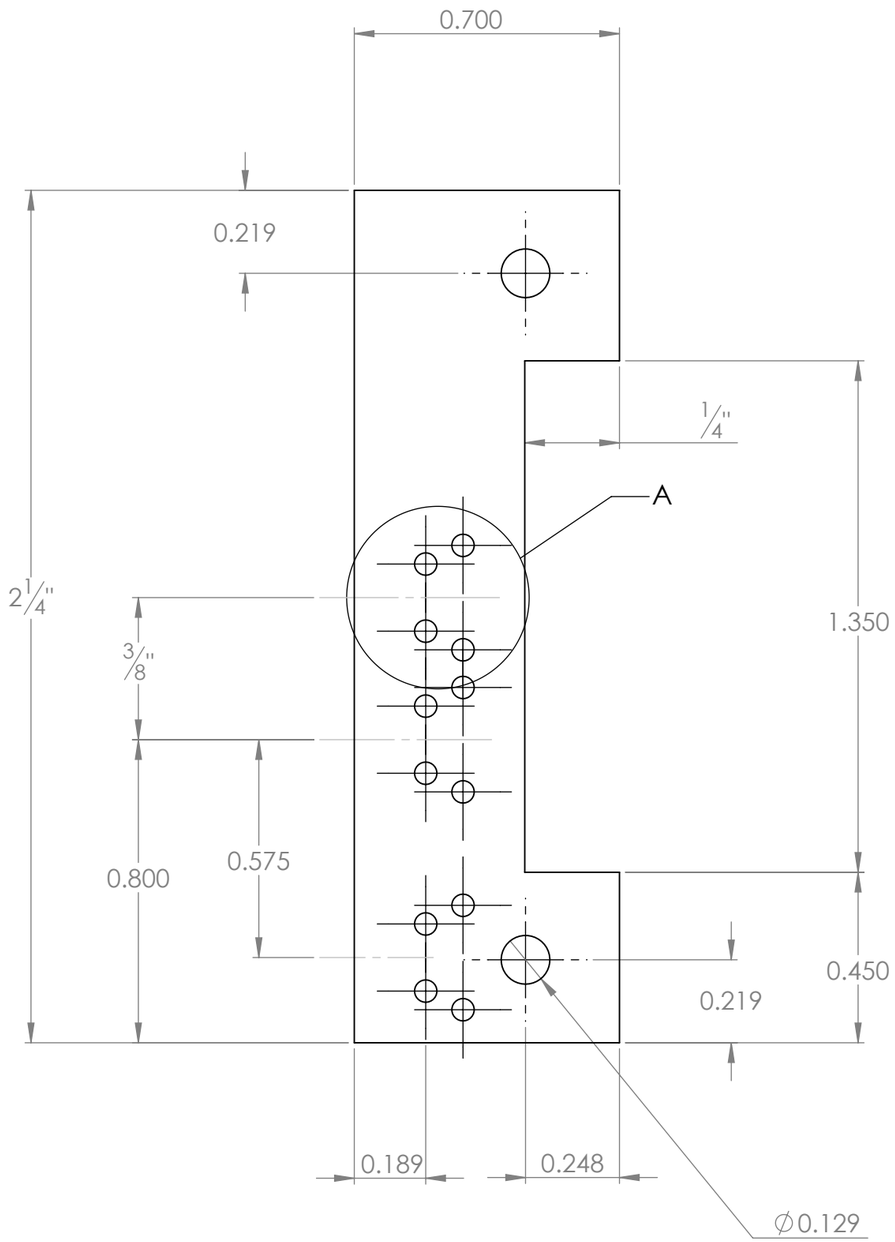
REV: A

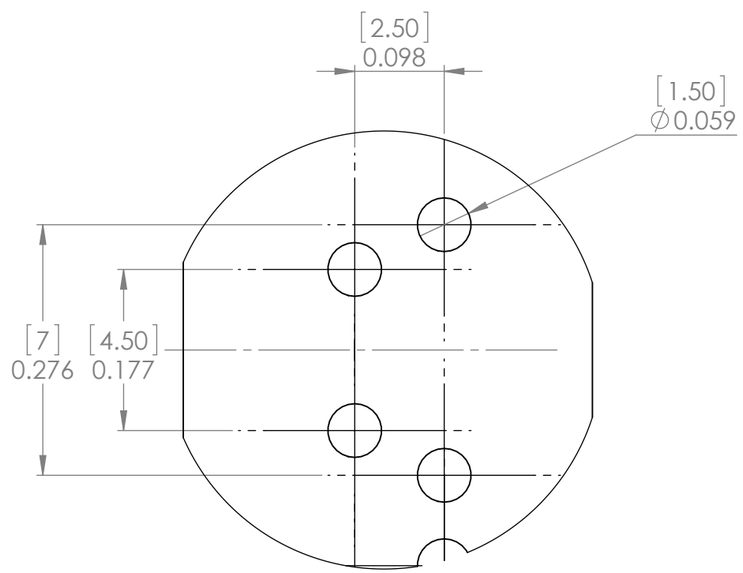
| PART # | DOCUMENT # | UNITS | SIZE |
|---|---|---|---|
| CLK-AS-05 | CLK-DWG-20 | INCHES | B |

| MATERIAL | FINISH |
|---|---|
| -- | -- |

| DATE | APVD BY : | SCALE | SHEET |
|---|---|---|---|
| 4/14/2015 | | 3:2 | 1 OF 1 |

FILE : CLK-DWG-20




DETAIL A
SCALE 6 : 1

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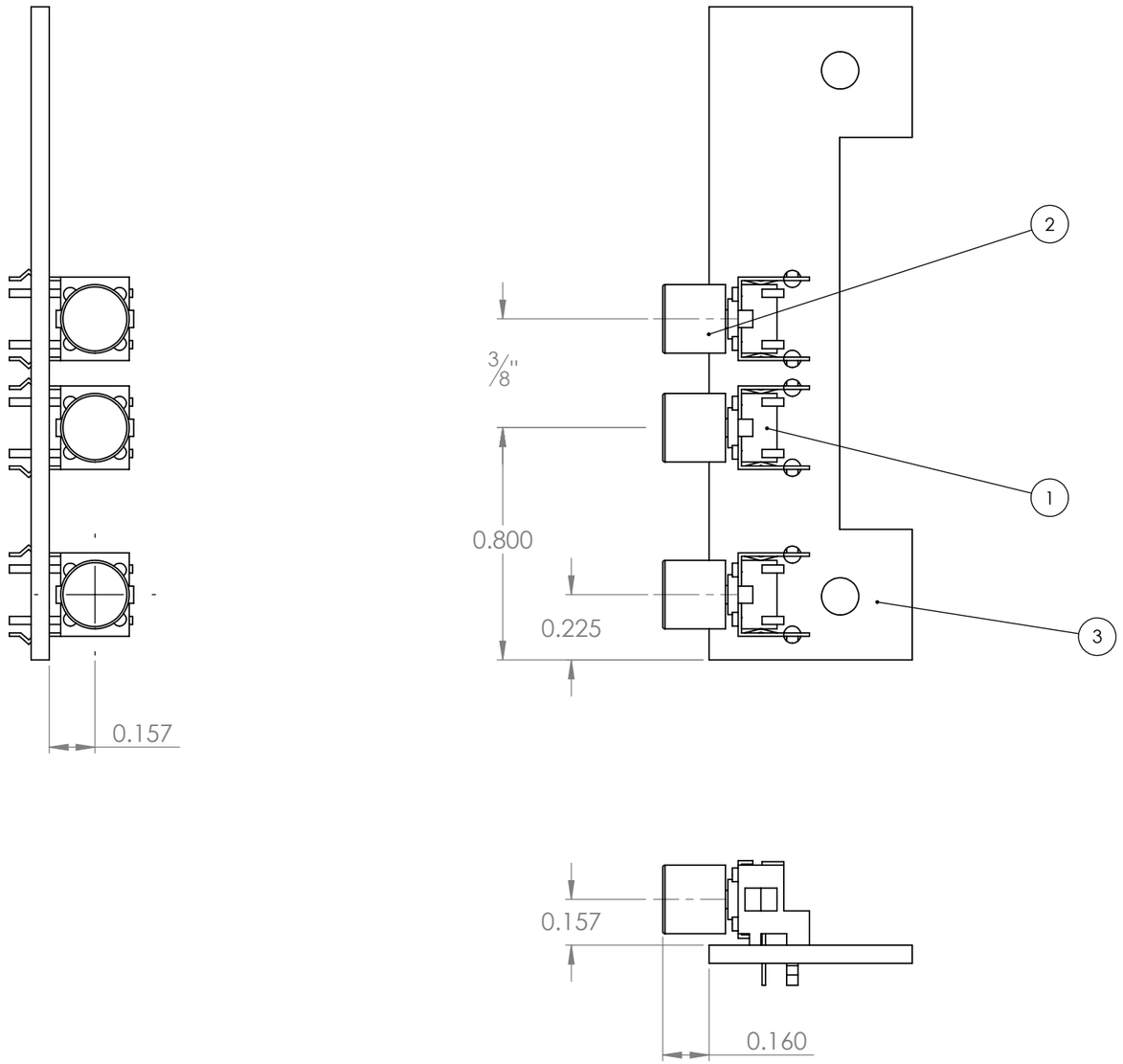
NOTES :

| | | | |
|---|---|---|---|
| PROJECT: ALARM CLOCK | | | |
| TITLE: PCB - LEFT PANEL DIMENSIONS | | | REV: A |
| PART #: CLK-PC-04 | DOCUMENT #: CLK-DWG-05 | UNITS: INCHES [MM] | SIZE: B |
| MATERIAL: PCB FR-4 | | FINISH: - | |
| DATE 3/21/2015 | APVD BY : | SCALE 5:2 | SHEET 1 OF 1 |

FILE : CLK-DWG-05

| ITEM NO. | PART NUMBER | CompanyName | DESCRIPTION | QTY. |
|---|---|---|---|---|
| 1 | B3F_3150 | Omron | Tactile switch R/A - SPST | 3 |
| 2 | B32-2010 | Omron | 6mm Round Keycap for B3F - Black | 3 |
| 3 | CLK-PC-04 | | Left panel PCB | 1 |







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NOTES :

PROJECT: ALARM CLOCK

TITLE: LEFT PANEL PCB ASSEMBLY COMPONENTS LAYOUT

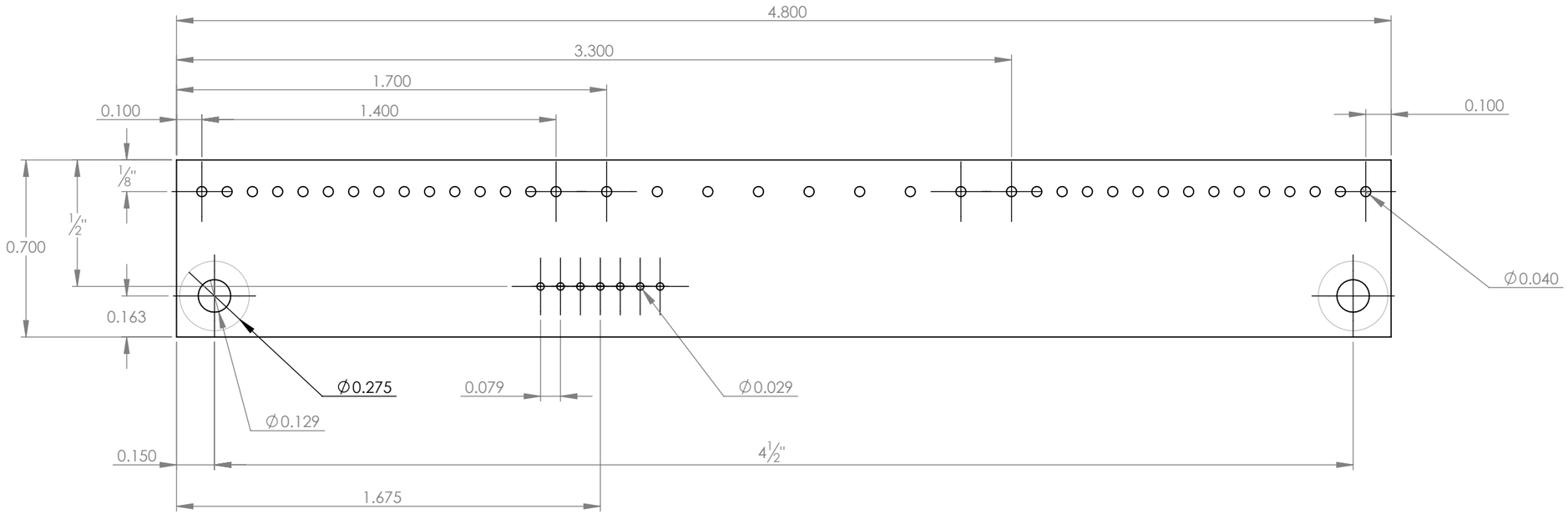
REV: A

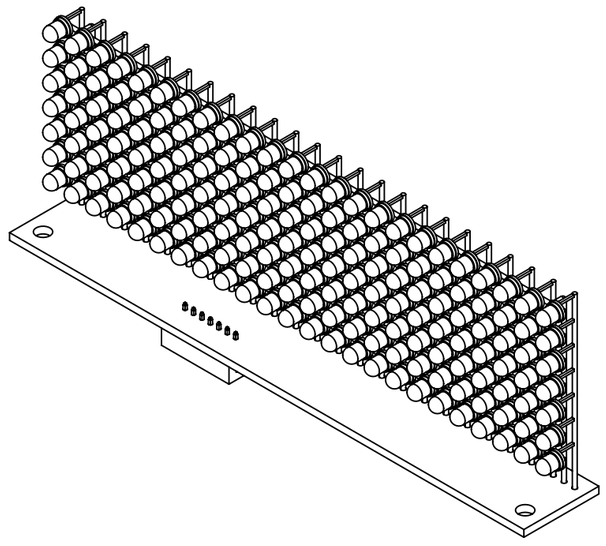
| PART # | DOCUMENT # | UNITS | SIZE |
|---|---|---|---|
| CLK-AS-04 | CLK-DWG-21 | INCHES | B |

| MATERIAL | FINISH |
|---|---|
| -- | -- |

| DATE | APVD BY : | SCALE | SHEET |
|---|---|---|---|
| 2/8/2015 | | 2:1 | 1 OF 1 |

FILE : CLK-DWG-21



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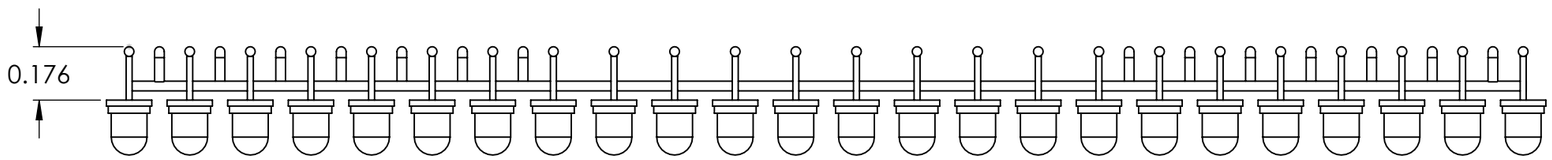
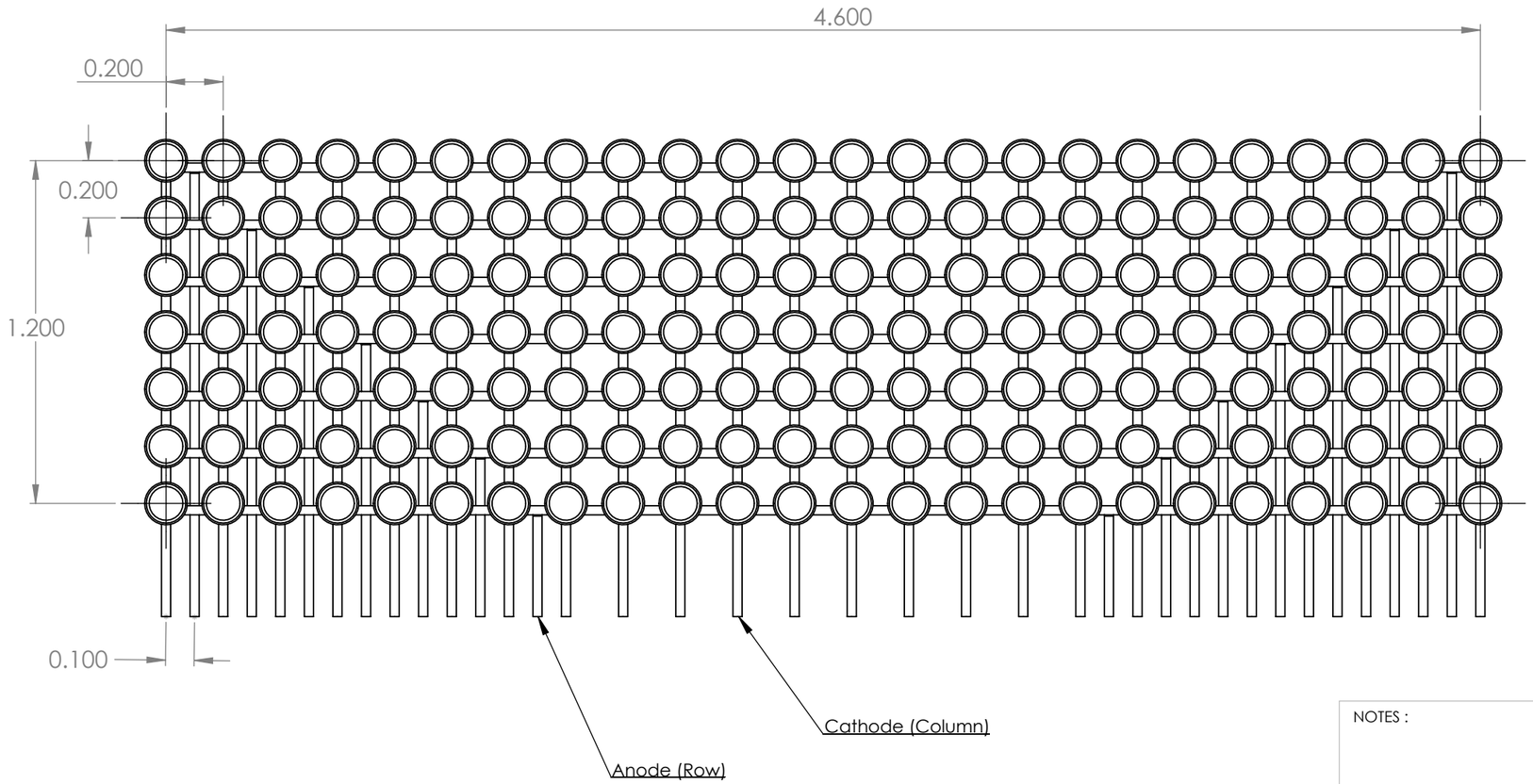
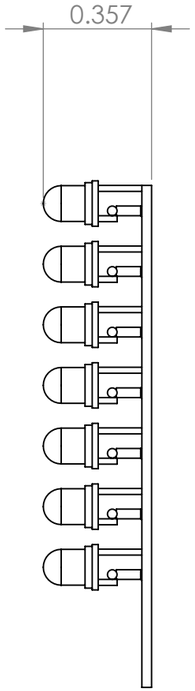
| | | | |
|---|---|---|---|
| PROJECT: ALARM CLOCK | | | |
| TITLE: LED MATRIX PCB DIMENSIONS | | | REV: A |
| PART #: CLK-PC-01 | DOCUMENT #: CLK-DWG-01 | UNITS: INCHES | SIZE: B |
| MATERIAL: PCB | FINISH: - | | |
| DATE: 2/8/2015 | APVD BY : | SCALE: 2:1 | SHEET 1 OF 1 |

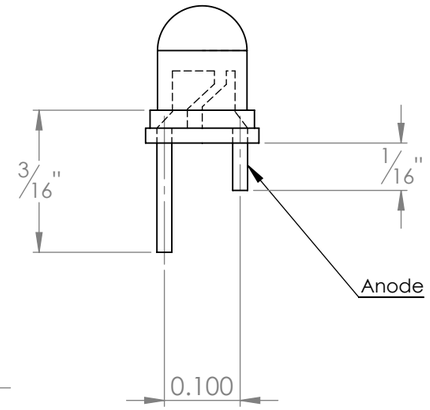
FILE : CLK-DWG-01

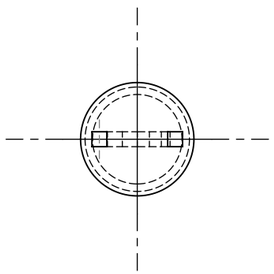
| ITEM NO. | PART NUMBER | DESCRIPTION | QTY. |
|---|---|---|---|
| 1 | WP710A10CGCK | Clear Green LED 3mm | 168 |
| 2 | -- | Common anode wire (Row) | 7 |
| 3 | -- | Common cathode wire (Column) | 24 |
| 4 | -- | Common anode lead wire | 14 |



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NOTES :

PROJECT: ALARM CLOCK

TITLE: 24 X 7 LED MATRIX DIMENSIONS

REV: A

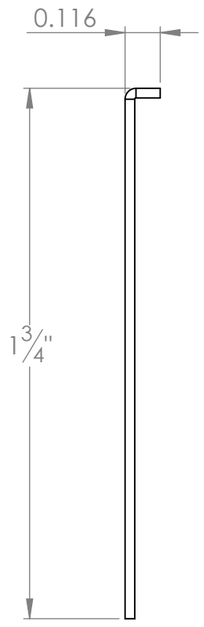
| PART # | DOCUMENT # | UNITS | SIZE |
|---|---|---|---|
| CLK-AS-03 | CLK-DWG-22 | INCHES | B |

MATERIAL: --

FINISH: --

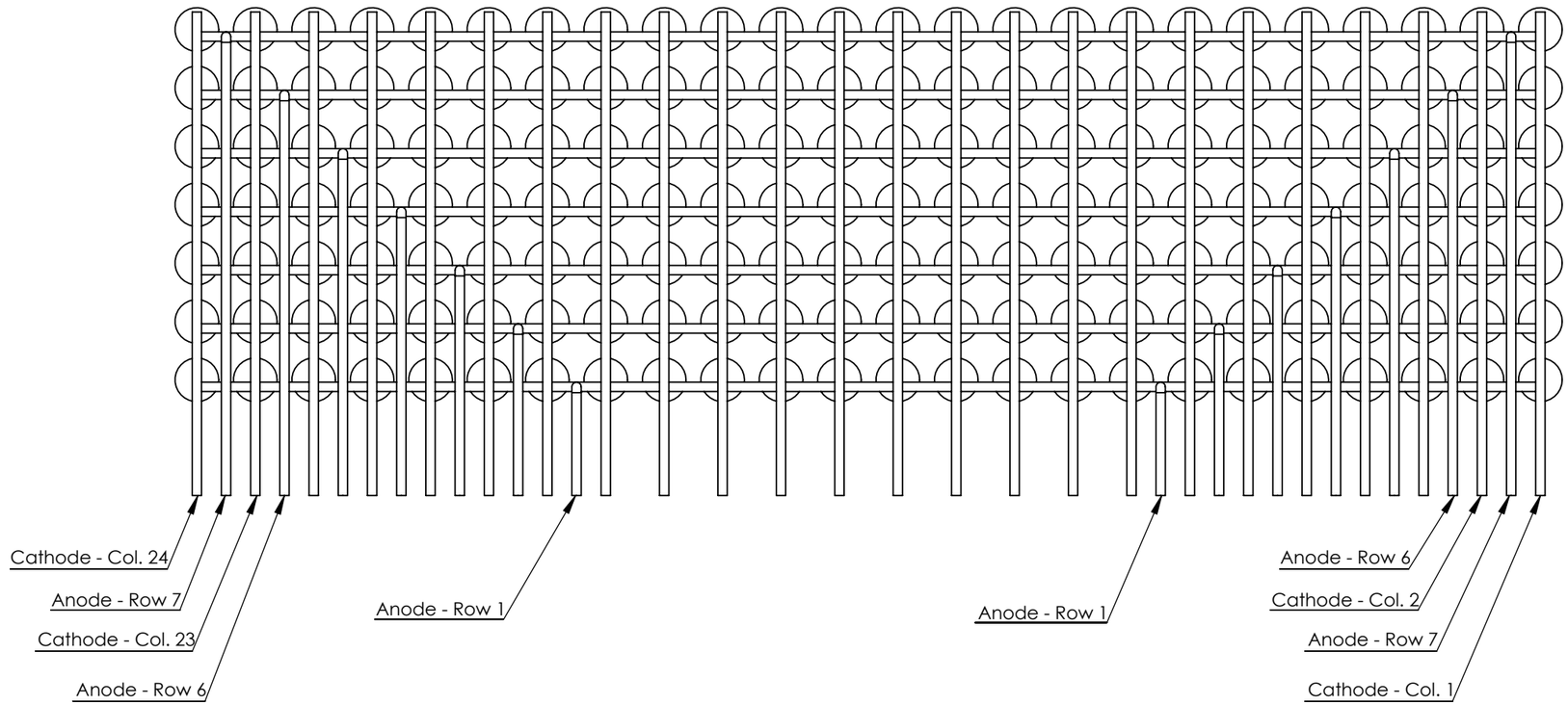
DATE 2/8/2015 | APVD BY : | SCALE 2:1 | SHEET 1 OF 2

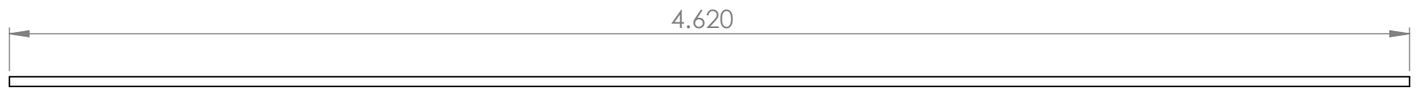
FILE : CLK-DWG-22




ANODE LEADS


COMMON CATHODE WIRE




COMMON ANODE WIRE

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NOTES :

PROJECT
ALARM CLOCK

TITLE
24 X 7 LED MATRIX
PINOUT

REV
A

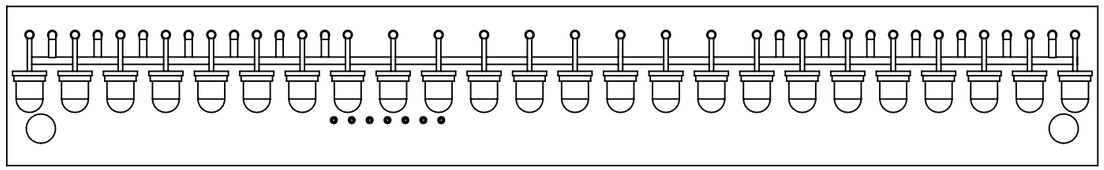
| PART # | DOCUMENT # | UNITS | SIZE |
|---|---|---|---|
| CLK-AS-03 | CLK-DWG-22 | INCHES | B |

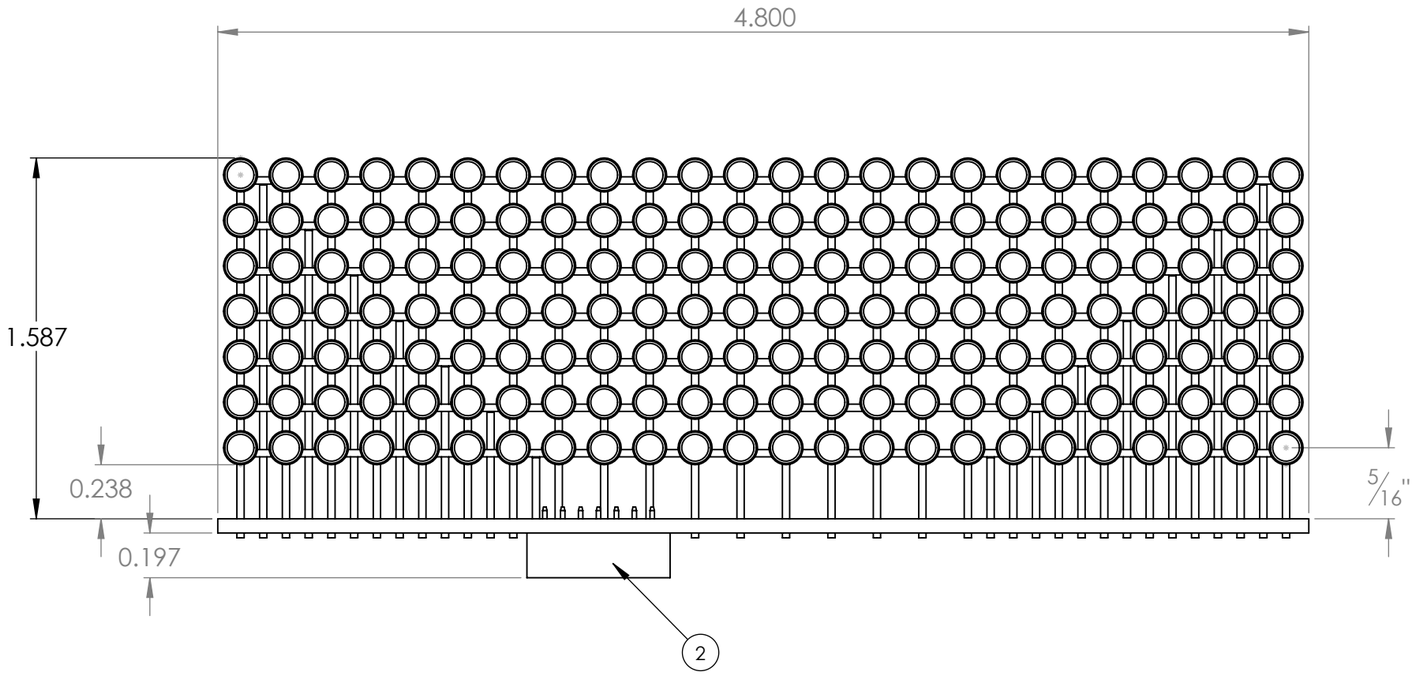
| MATERIAL | FINISH |
|---|---|
| -- | -- |

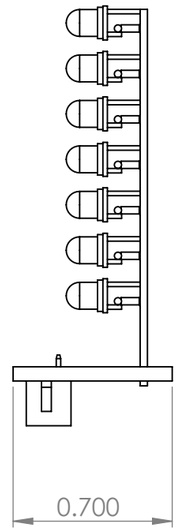
| DATE 2/8/2015 | APVD BY : | SCALE 2:1 | SHEET 2 OF 2 |
|---|---|---|---|

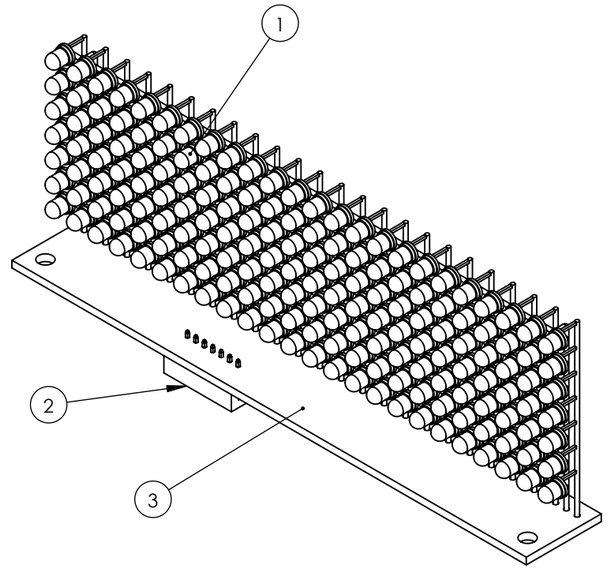
FILE : CLK-DWG-22

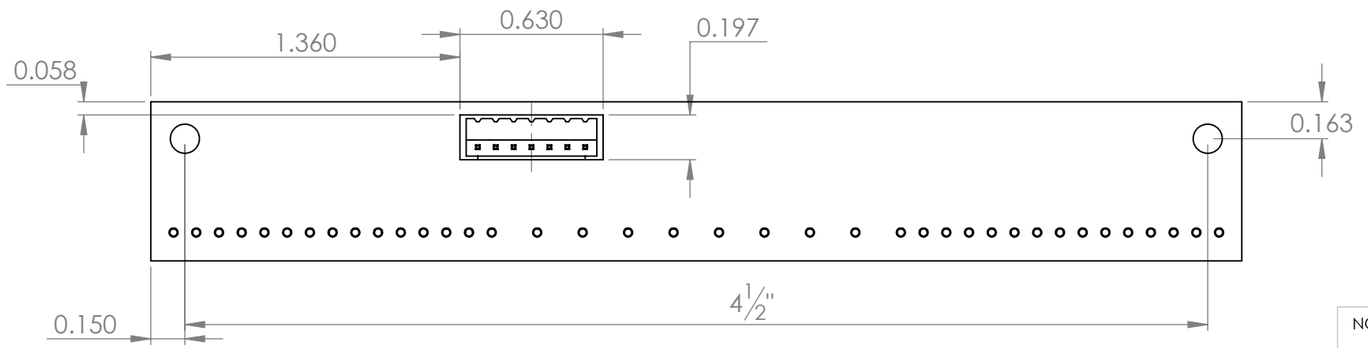
| ITEM NO. | PART NUMBER | DESCRIPTION | QTY. |
|---|---|---|---|
| 1 | CLK-AS-03 | 24x7 - 3mm Led Matrix | 1 |
| 2 | DF3A-7P-2DSA | Conn. Header 7 Pos - 2mm Pitch | 1 |
| 3 | CLK-PC-01 | Display (Model A) - Base PCB | 1 |







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NOTES :

PROJECT: ALARM CLOCK

TITLE: LED MATRIX PCB ASSEMBLY DIMENSIONS

REV: A

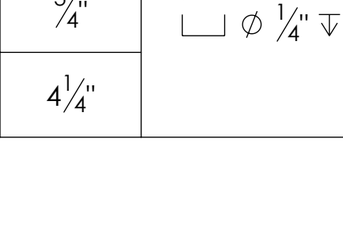
| PART # | DOCUMENT # | UNITS | SIZE |
|---|---|---|---|
| CLK-AS-01 | CLK-DWG-23 | INCHES [MM] | B |

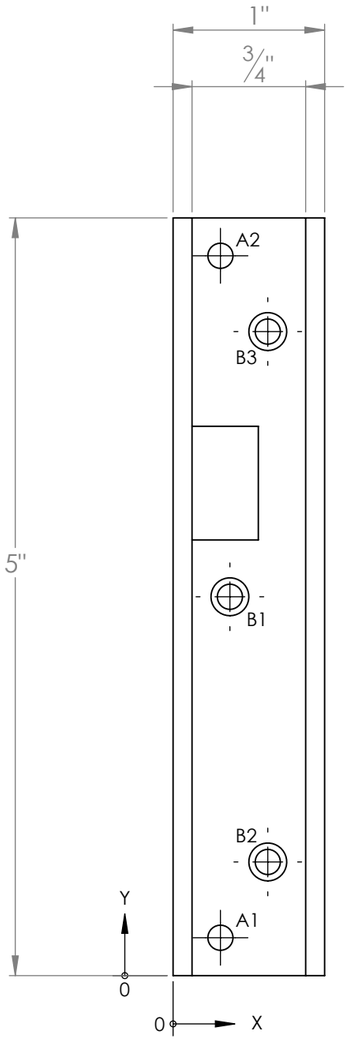
| MATERIAL | FINISH |
|---|---|
| -- | -- |

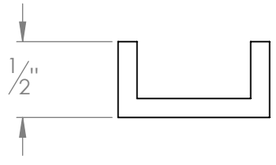
| DATE | APVD BY : | SCALE | SHEET |
|---|---|---|---|
| 2/8/2015 | | 3:2 | 1 OF 1 |

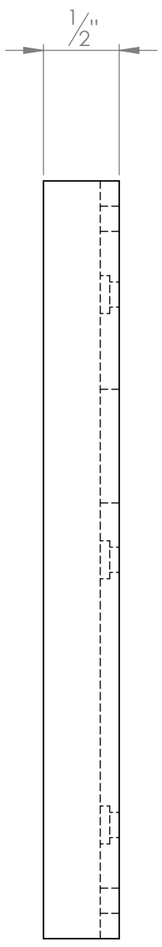
FILE : CLK-DWG-23

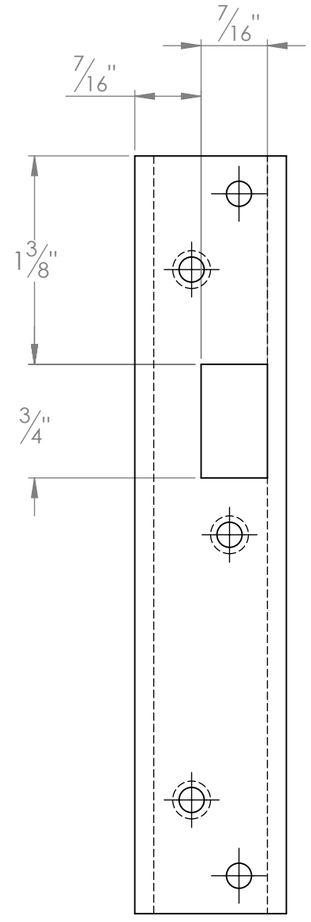
| TAG | X LOC | Y LOC | SIZE |
|---|---|---|---|
| A1 | 5/16" | 1/4" | ∅ 0.166 THRU ALL |
| A2 | 5/16" | 4 3/4" | |
| B1 | 3/8" | 2 1/2" | ∅ 0.166 THRU ALL ⌴ ∅ 1/4" ↧ 1/16" |
| B2 | 5/8" | 3/4" | |
| B3 | 5/8" | 4 1/4" | |






NOTES :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PROJECT: ALARM CLOCK

TITLE: DISPLAY BASE DIMENSIONS

REV: A

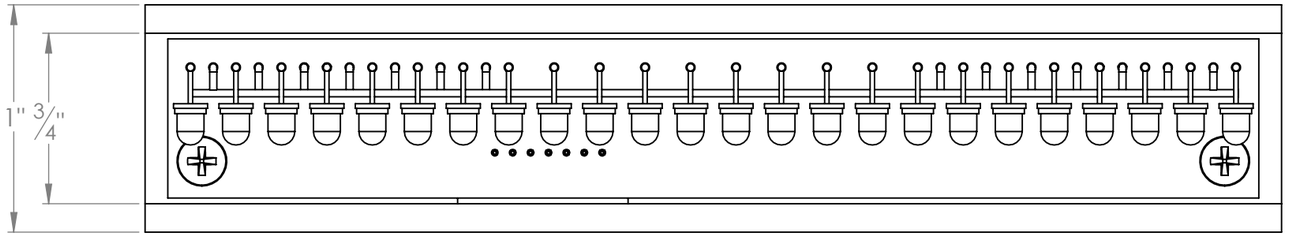
| PART # | DOCUMENT # | UNITS | SIZE |
|---|---|---|---|
| CLK-STR-01 | CLK-DWG-06 | INCHES | B |

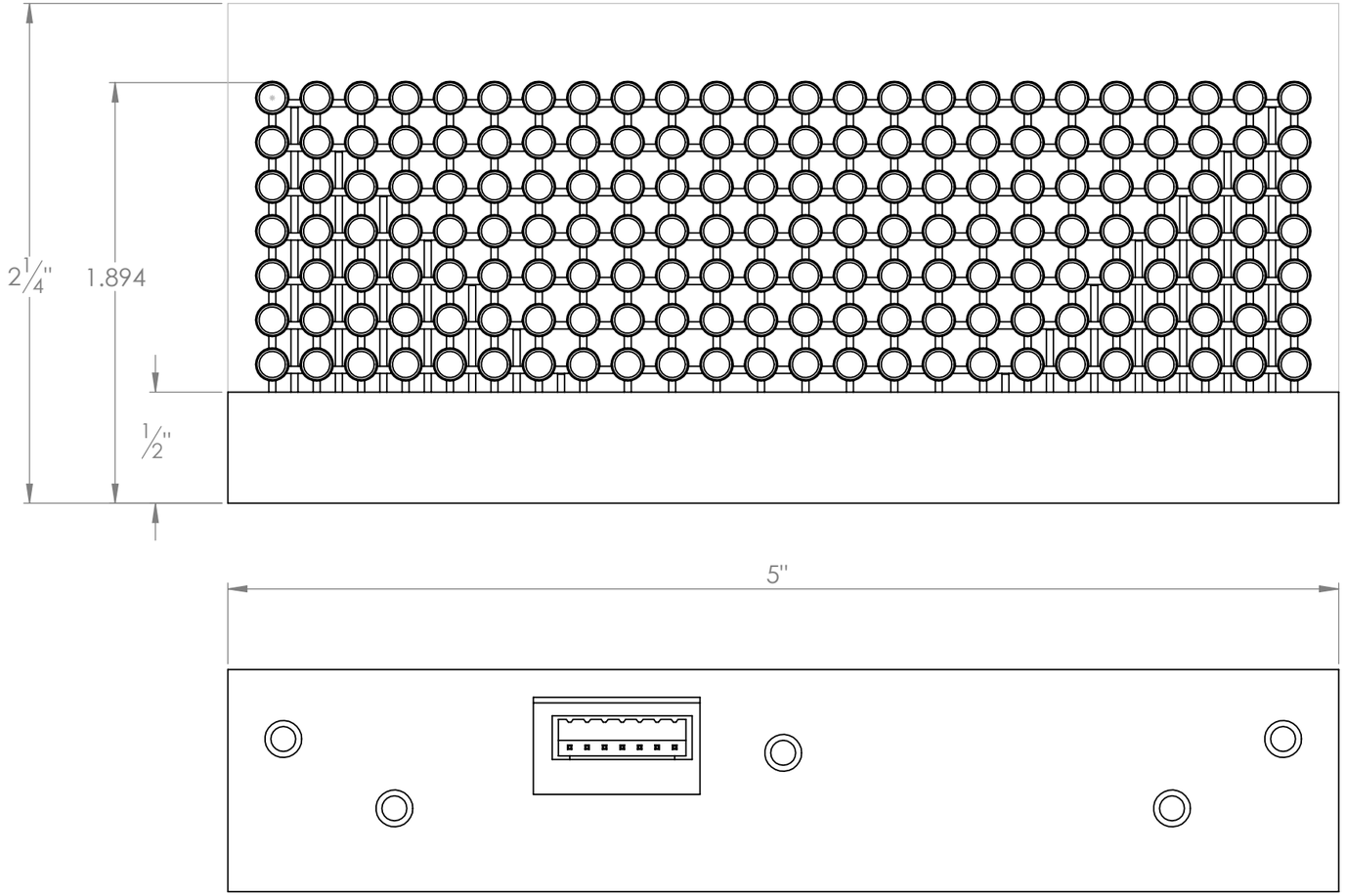
MATERIAL: 1" X 0.5" ALUMINUM "U" CHANNEL

FINISH: -

DATE 2/8/2015 | APVD BY : | SCALE 5:2 | SHEET 1 OF 1

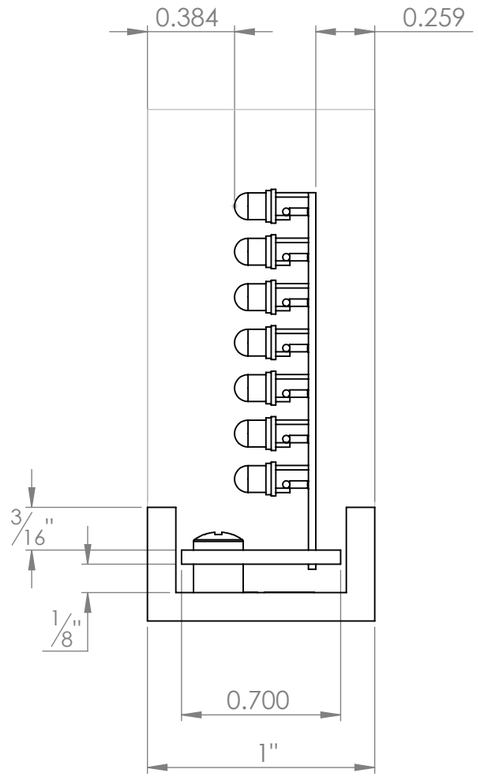
FILE : CLK-DWG-06







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NOTES :

PROJECT
ALARM CLOCK

TITLE
DISPLAY ASSEMBLY (MODEL A)
DIMENSIONS

REV
A

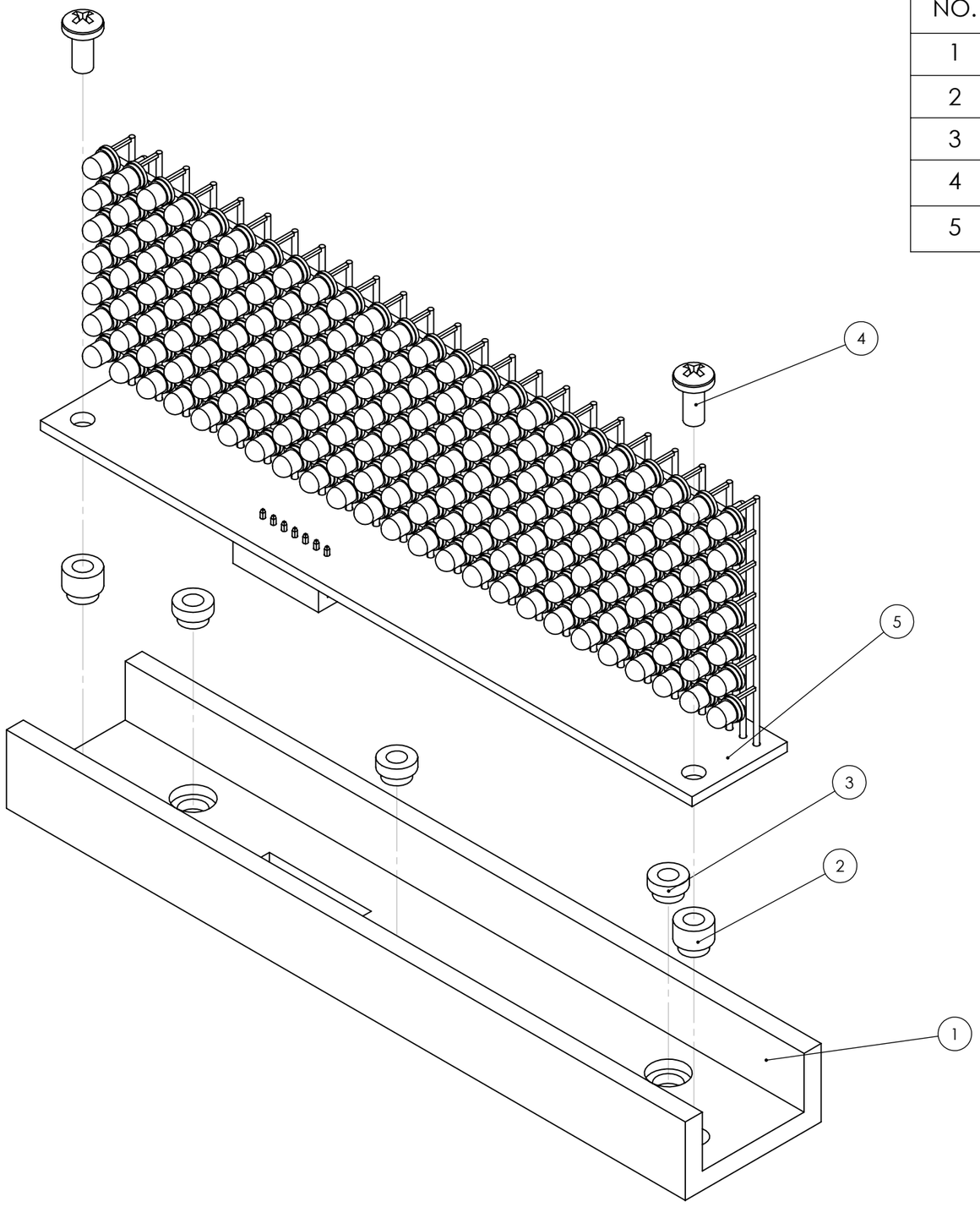
| PART # | DOCUMENT # | UNITS | SIZE |
|---|---|---|---|
| CLK-AS-02 | CLK-DWG-24 | INCHES | B |

| MATERIAL | FINISH |
|---|---|
| -- | -- |

| DATE | APVD BY : | SCALE | SHEET |
|---|---|---|---|
| 4/22/2015 | | 3:2 | 1 OF 2 |

FILE : CLK-DWG-24

| ITEM NO. | PART NUMBER | DESCRIPTION | QTY. |
|---|---|---|---|
| 1 | CLK-STR-01 | Display base | 1 |
| 2 | 4862 | Force-Fit Standoff - #4-40, 0.125" | 2 |
| 3 | 4861 | Force-Fit Standoff - #4-40, 0.065" | 3 |
| 4 | PH-C-0440-0025 | Phillips Panhead Screw - #4-40 x 1-4" | 2 |
| 5 | CLK-AS-01 | Display (Model A) - Base PCB Assembly | 1 |





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NOTES :

PROJECT
ALARM CLOCK

TITLE
DISPLAY ASSEMBLY (MODEL A)
EXPLODED VIEW

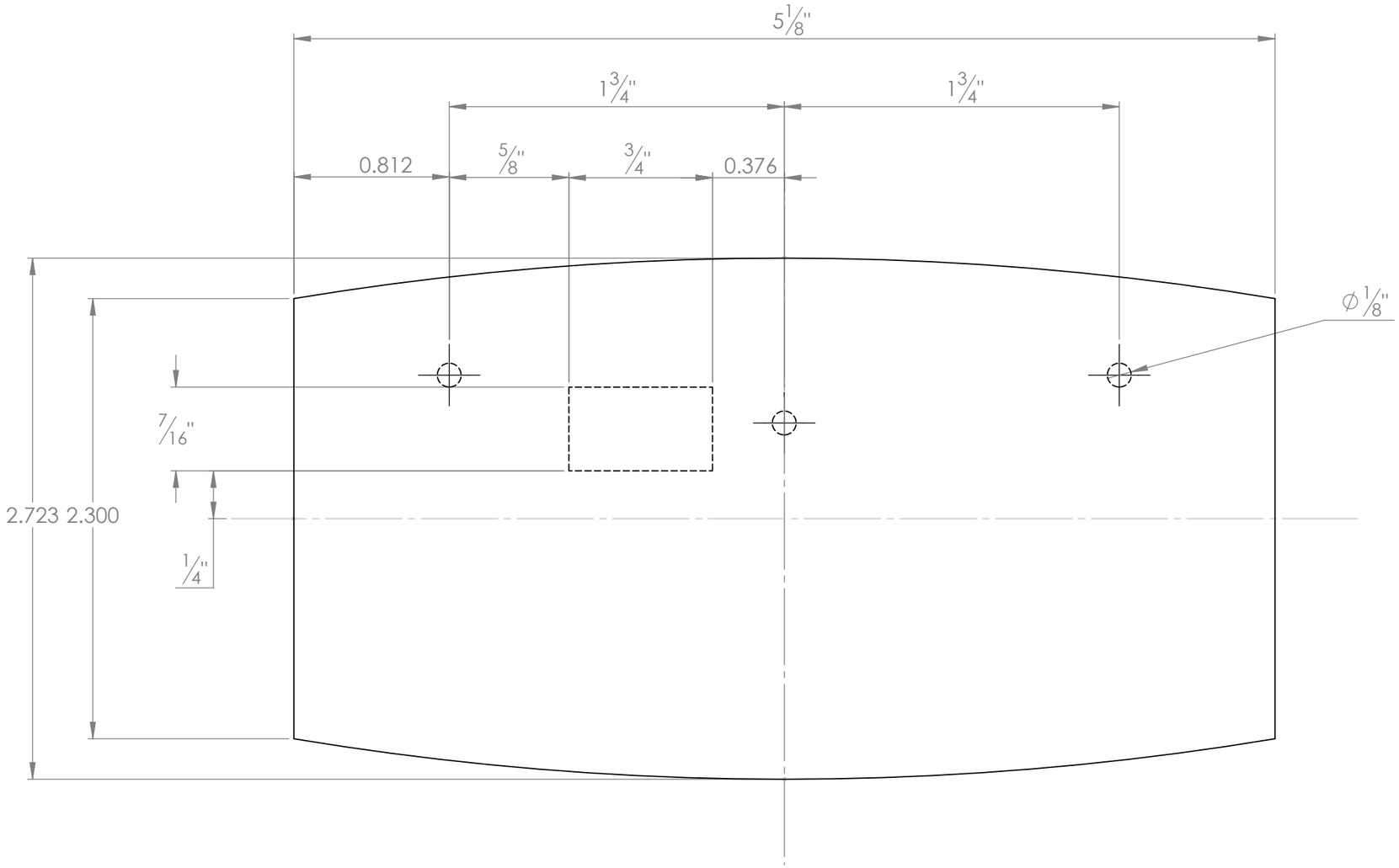
REV
A

| PART # | DOCUMENT # | UNITS | SIZE |
|---|---|---|---|
| CLK-AS-02 | CLK-DWG-24 | INCHES | B |

| MATERIAL | FINISH |
|---|---|
| -- | -- |

| DATE | APVD BY : | SCALE | SHEET |
|---|---|---|---|
| 4/22/2015 | | 3:2 | 2 OF 2 |

FILE : CLK-DWG-24

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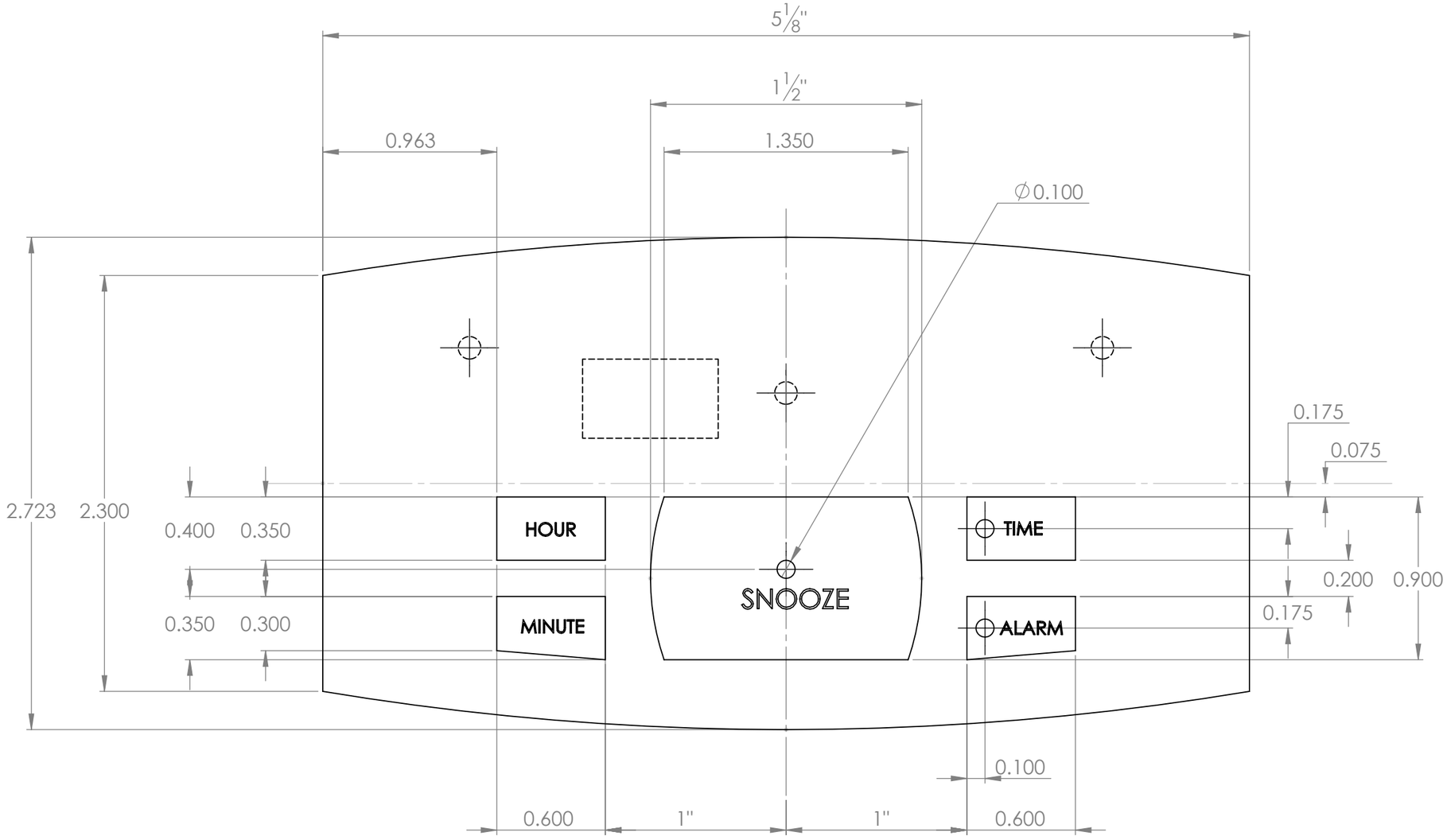
| | | | |
|---|---|---|---|
| PROJECT: ALARM CLOCK | | | |
| TITLE: KEYPAD OVERLAY CUTOUT | | | REV: A |
| PART #: CLK-OVL-01 | DOCUMENT #: CLK-DWG-07 | UNITS: INCHES | SIZE: B |
| MATERIAL: -- | | FINISH: - | |
| DATE 2/8/2015 | APVD BY : | SCALE 3:2 | SHEET 1 OF 2 |

FILE : CLK-DWG-07

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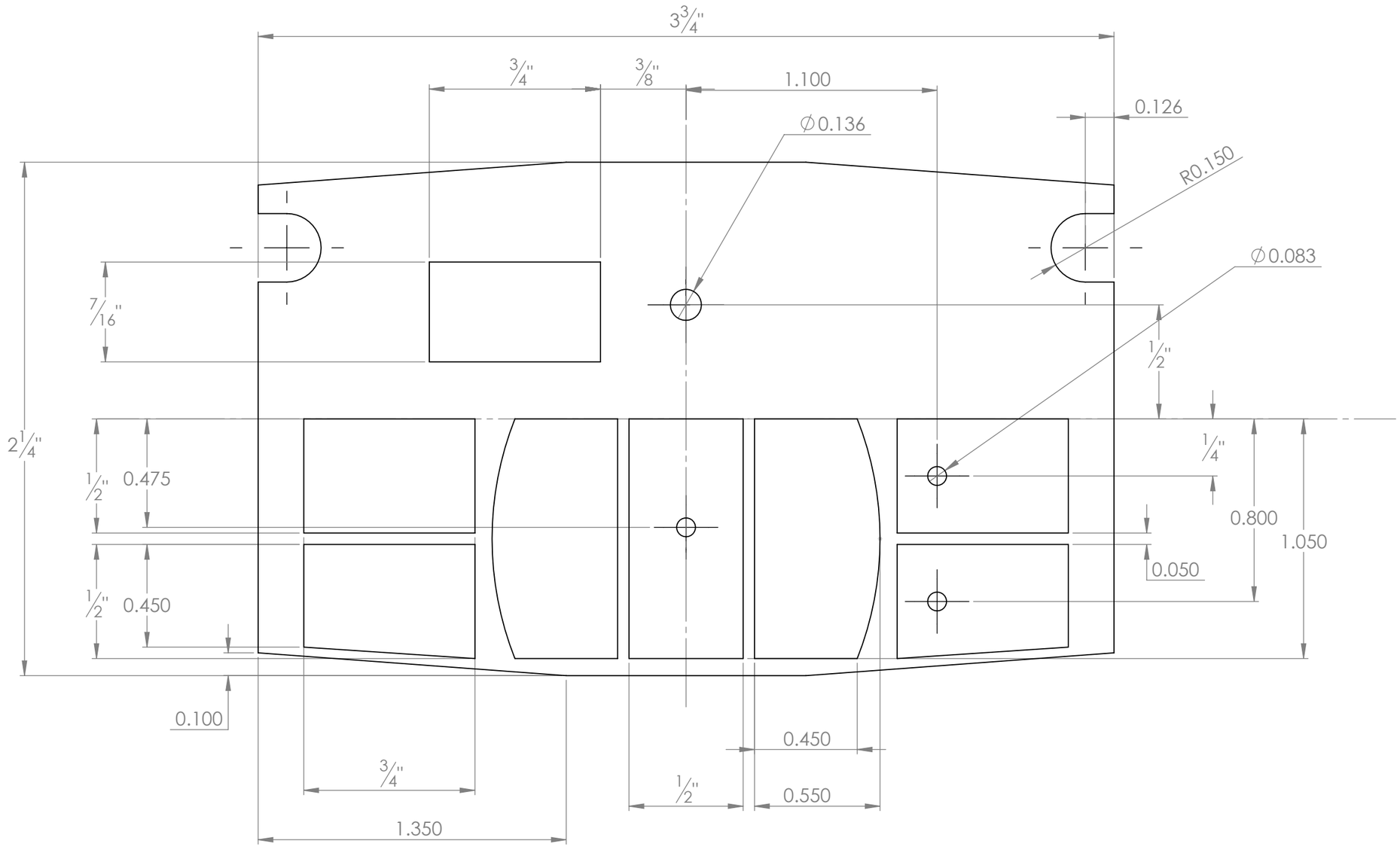
NOTES :

| | | | |
|---|---|---|---|
| PROJECT: ALARM CLOCK | | | |
| TITLE: KEYPAD OVERLAY BUTTONS LAYOUT | | | REV: A |
| PART #: CLK-OVL-01 | DOCUMENT #: CLK-DWG-07 | UNITS: INCHES | SIZE: B |
| MATERIAL: -- | | FINISH: - | |
| DATE 2/8/2015 | APVD BY : | SCALE 3:2 | SHEET 2 OF 2 |

FILE : CLK-DWG-07

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| | | | |
|---|---|---|---|
| PROJECT: ALARM CLOCK | | | |
| TITLE: TOUCH KEYPAD PCB DIMENSIONS | | | REV: A |
| PART #: CLK-PC-02 | DOCUMENT #: CLK-DWG-02 | UNITS: INCHES | SIZE: B |
| MATERIAL: PCB FR-4 | FINISH: - | | |
| DATE: 2/8/2015 | APVD BY : | SCALE: 2:1 | SHEET 1 OF 1 |

FILE : CLK-DWG-02