# 1888250-2 Product Details

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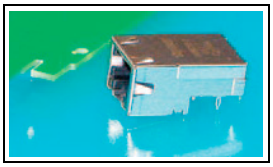

**1888250-2**

TE Internal Number: 1888250-2

Active

View 3D PDF

## PCB Mounted Jacks - Single Port, Multi-port and Stacked

Always EU RoHS/ELV Compliant (Statement of Compliance)

**Product Highlights:**

- Connector
- Preloaded
- Single Port Configuration
- 1 x 1 Jack Configuration
- Jack Type = RJ45

View all Features

**Quick Links**

- Pricing & Availability
- Search for Tooling
- Product Feature Selector
- Contact Us About This Product

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## Documentation & Additional Information

**Product Drawings:**
- CONNECTOR ASSEMBLY, LOW PROFILE, PRESS FIT, MODULAR ... (PDF, English)

**Catalog Pages/Data Sheets:**
- 1-1773464-9_MODULAR_JACKS_SINGLE_PORT_PCB_MOUNT (PDF, English)
- Solutions for AdvancedTCA, AdvancedTCA 300, MicroTCA... (PDF, English)

**Product Specifications:**
- None Available

**Application Specifications:**
- Category 5, Shielded, Offset, Press Fit, Modular Jac... (PDF, English)

**Instruction Sheets:**
- None Available

**CAD Files:** (CAD Format & Compression Information)
- 2D Drawing (DXF, Version B)
- 3D Model (IGES, Version B)
- 3D Model (STEP, Version B)

List all Documents

**Additional Information:**
- Product Line Information

**Related Products:**
- Tooling

## Product Features (Please use the Product Drawing for all design activity)

**Product Type Features:**
- Product Type = Connector
- Jack Type = RJ45
- PCB Mounting Orientation = Side Entry (Right Angle)
- PCB Mount Style = Through Hole
- Performance Category = Cat 5
- LED = With
- Grounding Options = Panel Ground and PCB Ground
- Panel Stops = Without
- Keyed = No
- Profile = Very Low; Offset - Over Hangs PCB
- Color = Black

**Mechanical Attachment:**
- Panel Mount Retention = Without

**Termination Features:**
- Termination Method to PC Board = Through Hole - Press Fit

**Dimensions:**
- Height (mm [in]) = 4.20 [0.165]
- PCB Tail Length (mm [in]) = 2.29 [0.091]

**Body Features:**
- Inverted Jack Face = No
- Shield Plating = Nickel
- Shield Material = Copper Alloy

**Contact Features:**
- Solder Tail Contact Plating = Tin over Nickel
- Contact Plating, Mating Area, Material = Gold (50)
- Contact Base Material = Phosphor Bronze

**Configuration Features:**
- Preloaded = Yes
- Port Configuration = Single
- Jack Configuration = 1 x 1
- Number of Positions = 8
- Shielded = Yes
- Number of Contacts Loaded = 8
- Number of PCB Ground Tabs = 4

**Industry Standards:**
- RoHS/ELV Compliance = RoHS compliant, ELV compliant
- Lead Free Solder Processes = Not relevant for lead free process
- RoHS/ELV Compliance History = Always was RoHS compliant

**Identification Marking:**
- LED Position 1 Color = Green/Yellow
- LED Position 2 Color = Green/Yellow

**Packaging Features:**
- Packaging Method = Tray
- Packaging Quantity = 40

**Product Availability:**
- Region = Asia, North America

**Other:**
- Brand = TE Connectivity

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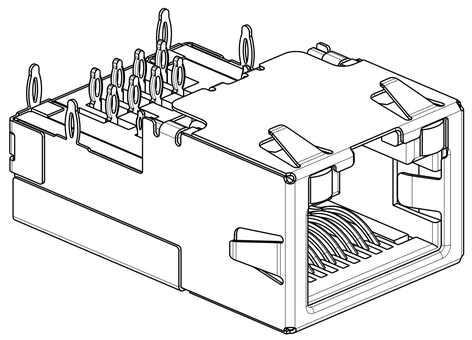
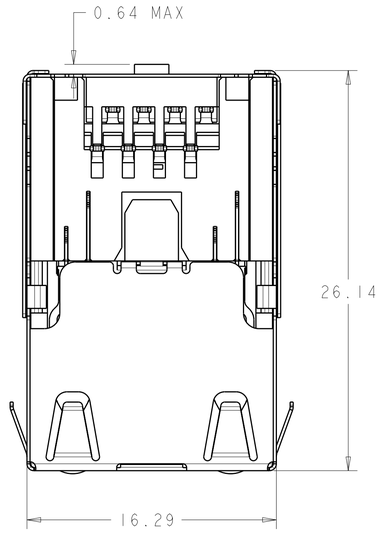
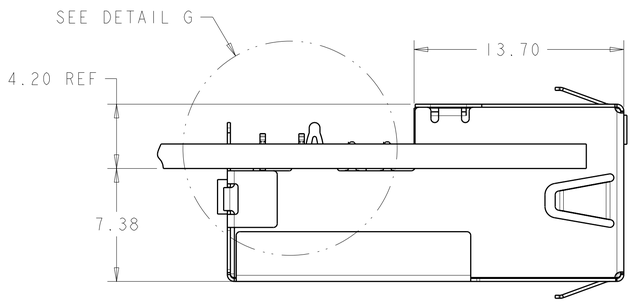
| LOC | DIST |
|---|---|
| AA | 00 |

REVISIONS

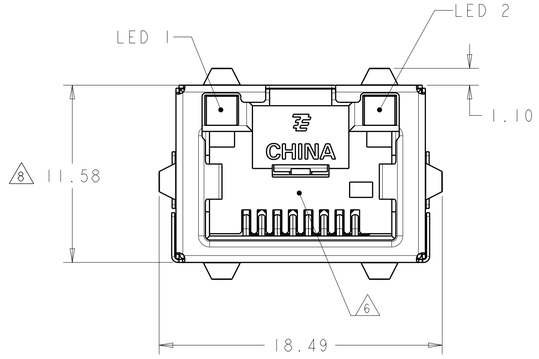
| P | LTR | DESCRIPTION | DATE | DWN | APVD |
|---|---|---|---|---|---|
| | B5 | ECR-11-009822 | 11MAY2011 | JJ | MOW |
| | C | ECR-12-002445 | 09FEB2012 | JJ | AC |

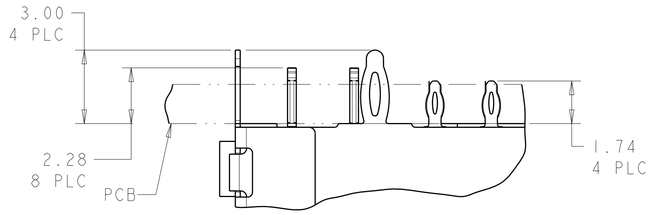




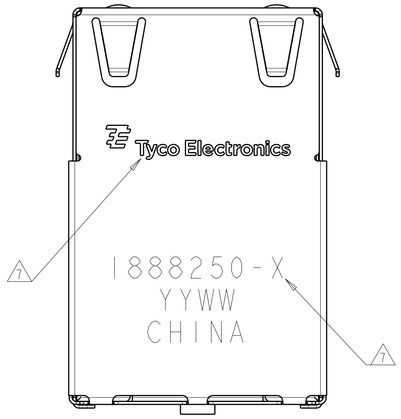



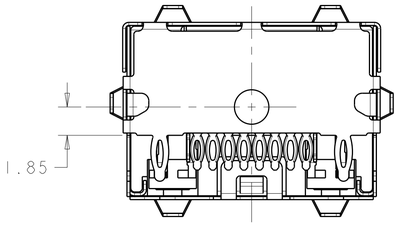

VIEW SHOWN ASSEMBLED
TO PCB ONLY




DETAIL G
SCALE 8:1




1. MATERIALS:
   HOUSING: BLACK THERMOPLASTIC, 94V-0.
   SHIELD: COPPER ALLOY WITH 0.76µm MIN NICKEL PLATE
   CONTACTS: PHOSPHOR BRONZE WITH 1.27µm MIN GOLD AT MATING INTERFACE OVER 1.27µm MIN NICKEL UNDERPLATE.

2. PERFORMANCE:
   INSERTION LOSS: 0.4dB @ 100 MHz.
   RETURN LOSS: 12.0dB @ 100 MHz.
   CROSSTALK ATTENUATION: -43dB MINIMUM @ 100 MHz
   CURRENT:0.6AMPERE MAXIMUM PER SINGAL CONTACT.

3. LED's COMPLIANT WITH IEC60825-1 SAFETY OF LASER PRODUCTS WHEN OPERATED AT CURRENT OF 20mA.

4. ALL DIMENSIONS NOMINAL.

5. RECOMMENDED MOTHERBOARD PCB THICKNESS: 1.60±0.16.

△6 RJ45 PORT CONFORMS TO FCC RULES AND REGULATIONS PART 68 SUB-PART F.

△7 TE LOGO, PART NUMBER, DATE CODE AND COUNTRY OF ORIGIN TO BE MARKED IN APPROXIMATE LOCATION SHOWN.

△8 THIS DIMENSION MEETS THE ADVANCED MEZZANINE CARD (AMC) SPECIFICATION.

△9 PIN 9,10,11,12 ARE LED LEAD PINS,For 1888250-3, NO LED INTEGRATED, HOLES ON PCB FOR THESE PINS ARE ONLY OPTIONAL.

| YELLOW | GREEN | 1888250-5 |
|---|---|---|
| GREEN | GREEN | 1888250-4 |
| - | - | 1888250-3 |
| GRN/YEL | GRN/YEL | 1888250-2 |
| GREEN | YELLOW | 1888250-1 |
| LED #1 | LED #2 | PART NUMBER |

THIS DRAWING IS A CONTROLLED DOCUMENT.

DIMENSIONS: mm

TOLERANCES UNLESS OTHERWISE SPECIFIED:
0 PLC ±-
1 PLC ±-
2 PLC ±0.13
3 PLC ±-
4 PLC ±-
ANGLES ±1°

MATERIAL SEE NOTE 1
FINISH SEE NOTE 1

DWN MS/L.A.MAYER 15FEB2008
CHK J.WESTMAN 15FEB2008
APVD S.FLICKINGER 15FEB2008
PRODUCT SPEC 108-2274
APPLICATION SPEC 114-13179
WEIGHT -

TE Connectivity

NAME CONNECTOR ASSEMBLY, LOW PROFILE, PRESS FIT, MODULAR JACK, 1X1, RJ45
-

| SIZE | CAGE CODE | DRAWING NO | RESTRICTED TO |
|---|---|---|---|
| A1 | 00779 | C-1888250 | - |

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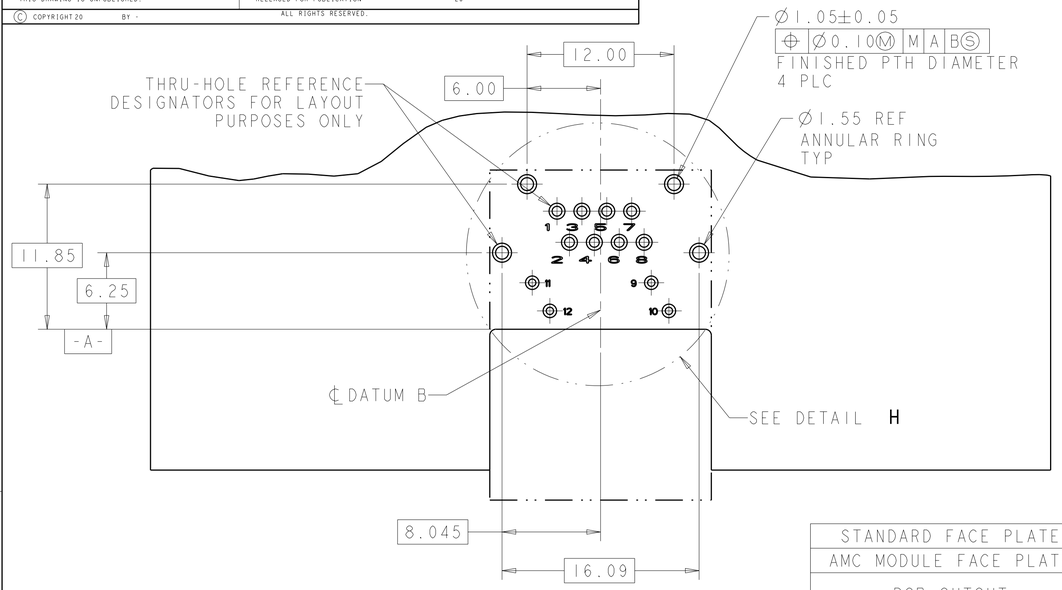
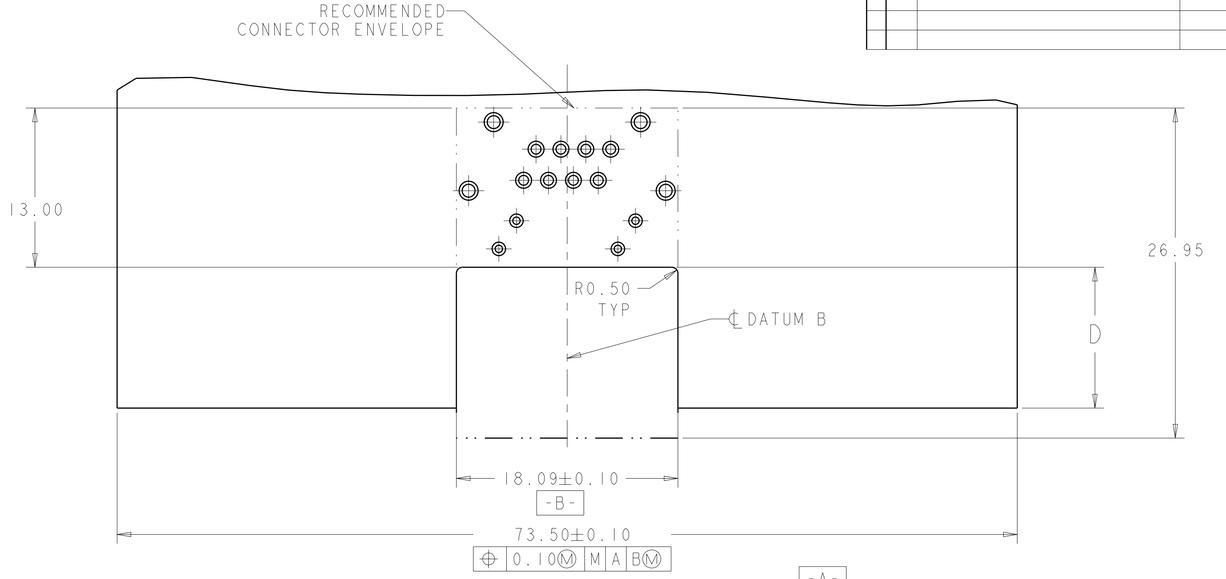
| P | LTR | DESCRIPTION | DATE | DWN | APVD |
|---|---|---|---|---|---|
| | - | SEE SHEET 1 | - | - | - |

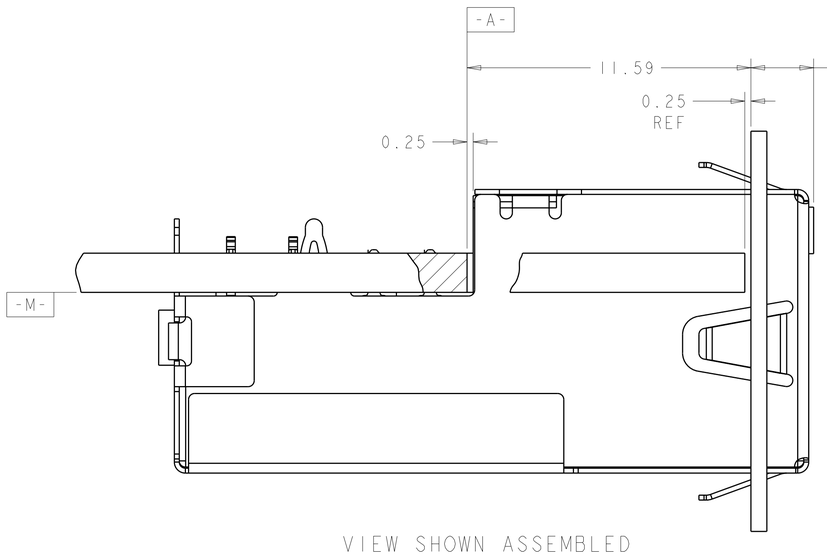



PCB SIDE 2

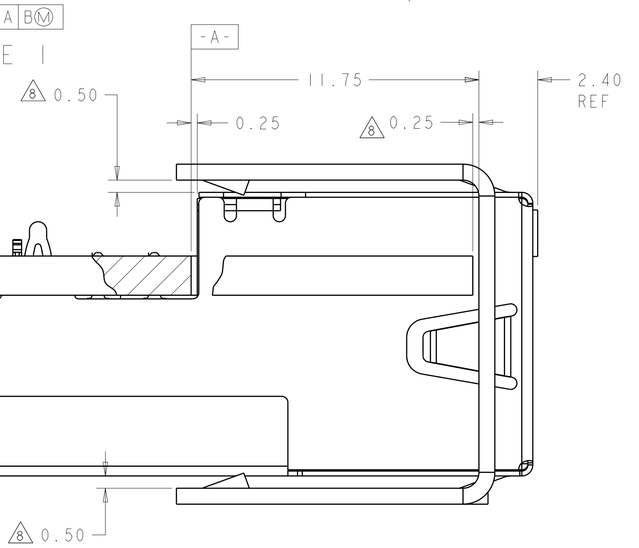
| | |
|---|---|
| STANDARD FACE PLATE | 11.34 |
| AMC MODULE FACE PLATE | 11.50 |
| PCB CUTOUT | D |



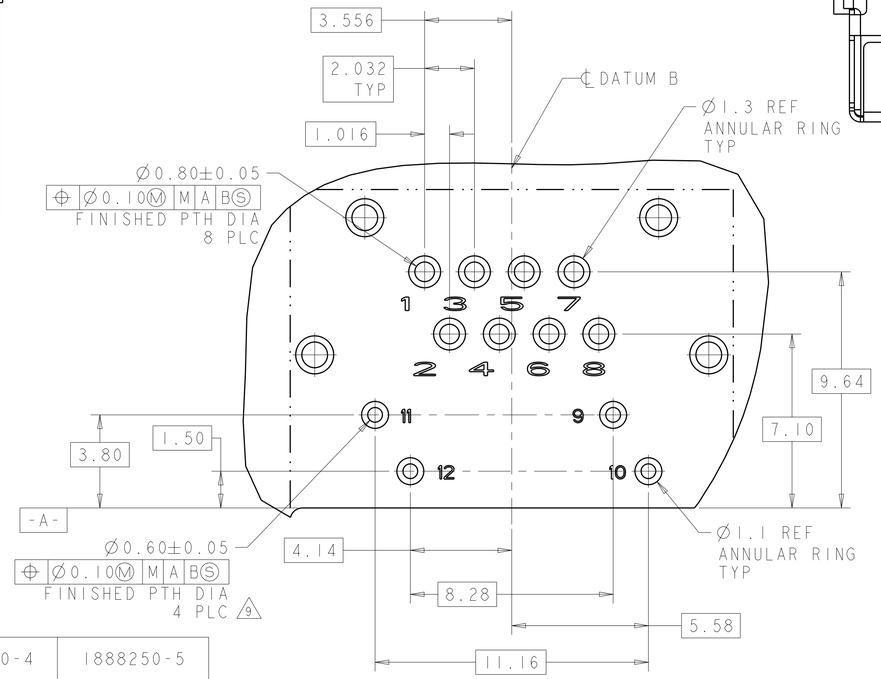

PCB SIDE 1



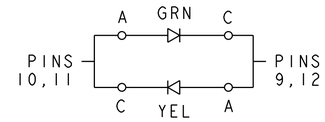

VIEW SHOWN ASSEMBLED
TO PCB AND RECOMMENDED
STANDARD FACE PLATE
SCALE 8:1




VIEW SHOWN ASSEMBLED
TO PCB AND RECOMMENDED
AMC MODULE FACE PLATE
SCALE 8:1




DETAIL H
SIDE 2
SCALE 8:1




1888250-2 ONLY

| | PIN # | 1888250-1 | 1888250-2 | 1888250-3 | 1888250-4 | 1888250-5 |
|---|---|---|---|---|---|---|
| LED 1 | 9 | CATHODE(-) | ANODE(YEL),CATHODE(GRN) | - | CATHODE(-) | CATHODE(-) |
| | 10 | ANODE(+) | ANODE(GRN),CATHODE(YEL) | - | ANODE(+) | ANODE(+) |
| LED 2 | 11 | ANODE(+) | ANODE(GRN),CATHODE(YEL) | - | ANODE(+) | ANODE(+) |
| | 12 | CATHODE(-) | ANODE(YEL),CATHODE(GRN) | - | CATHODE(-) | CATHODE(-) |

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DIMENSIONS: mm

TOLERANCES UNLESS OTHERWISE SPECIFIED:
0 PLC ±-
1 PLC ±-
2 PLC ±0.13
3 PLC ±-
4 PLC ±-
ANGLES ±3°

MATERIAL SEE NOTE 1
FINISH SEE NOTE 1

| | | |
|---|---|---|
| DWN | MS/L.A.MAYER | 15FEB2008 |
| CHK | J.WESTMAN | 15FEB2008 |
| APVD | S.FLICKINGER | 15FEB2008 |
| PRODUCT SPEC | 108-2274 | |
| APPLICATION SPEC | 114-13179 | |
| WEIGHT | - | |

TE Connectivity

NAME: CONNECTOR ASSEMBLY, LOW PROFILE, PRESS FIT, MODULAR JACK, 1X1, RJ45
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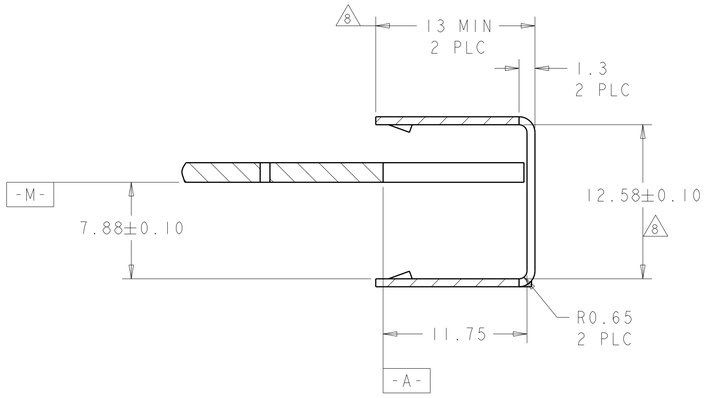
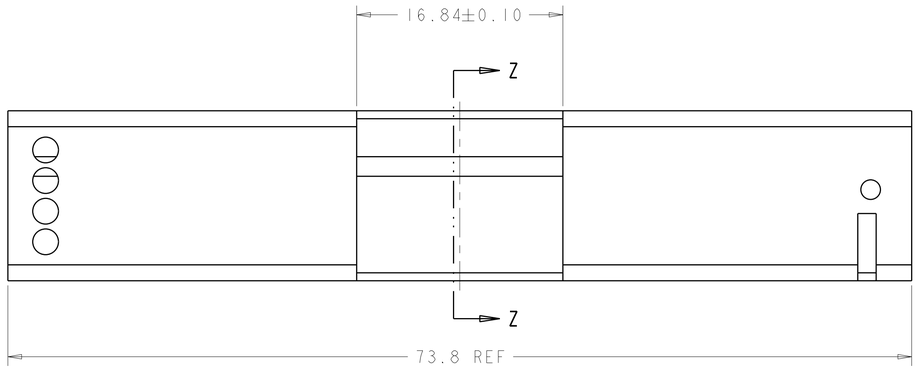
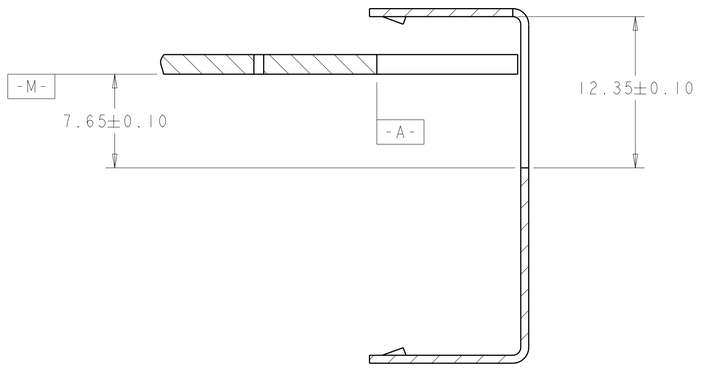
| | - | SEE SHEET 1 | - | - | - |




SECTION **Z-Z**




AMC SINGLE WIDTH, HALF HEIGHT MODULE FACE PLATE
SCALE 4:1

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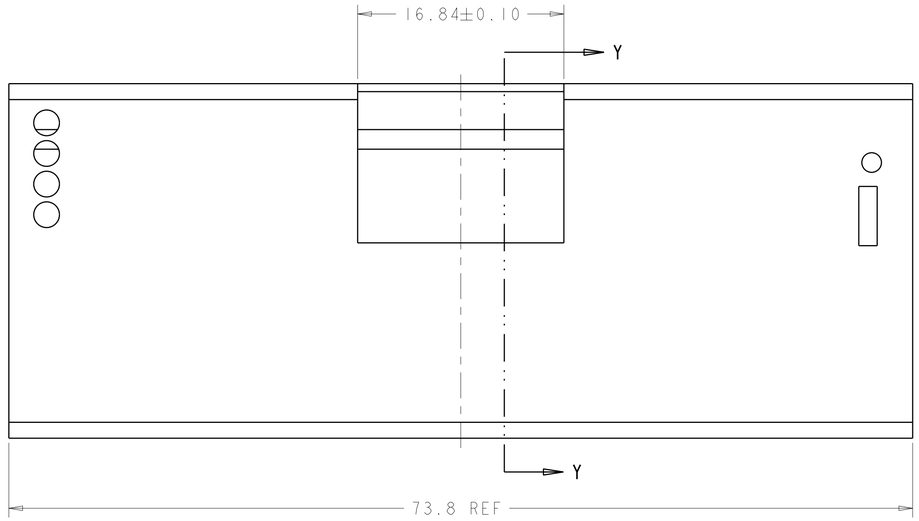
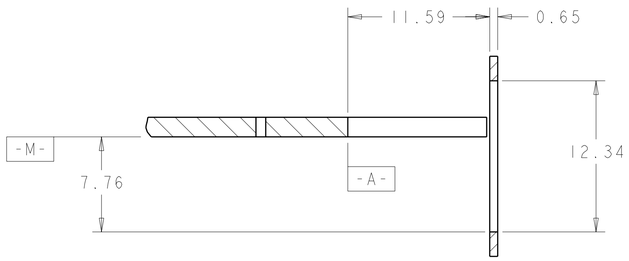



AMC SINGLE WIDTH, FULL HEIGHT MODULE FACE PLATE
SCALE 4:1

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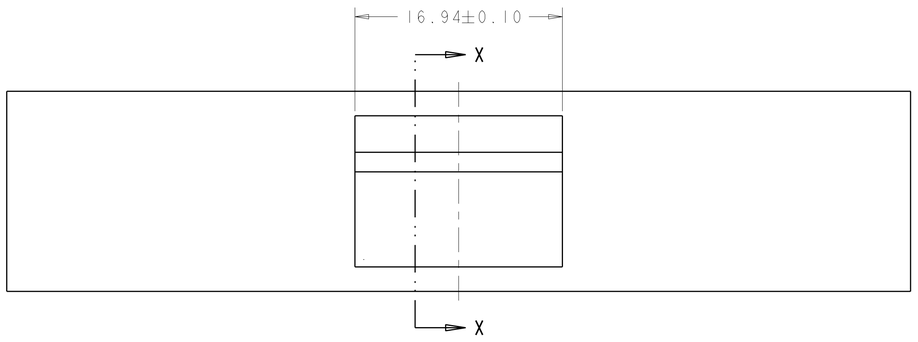


STANDARD FACE PLATE
SCALE 4:1

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