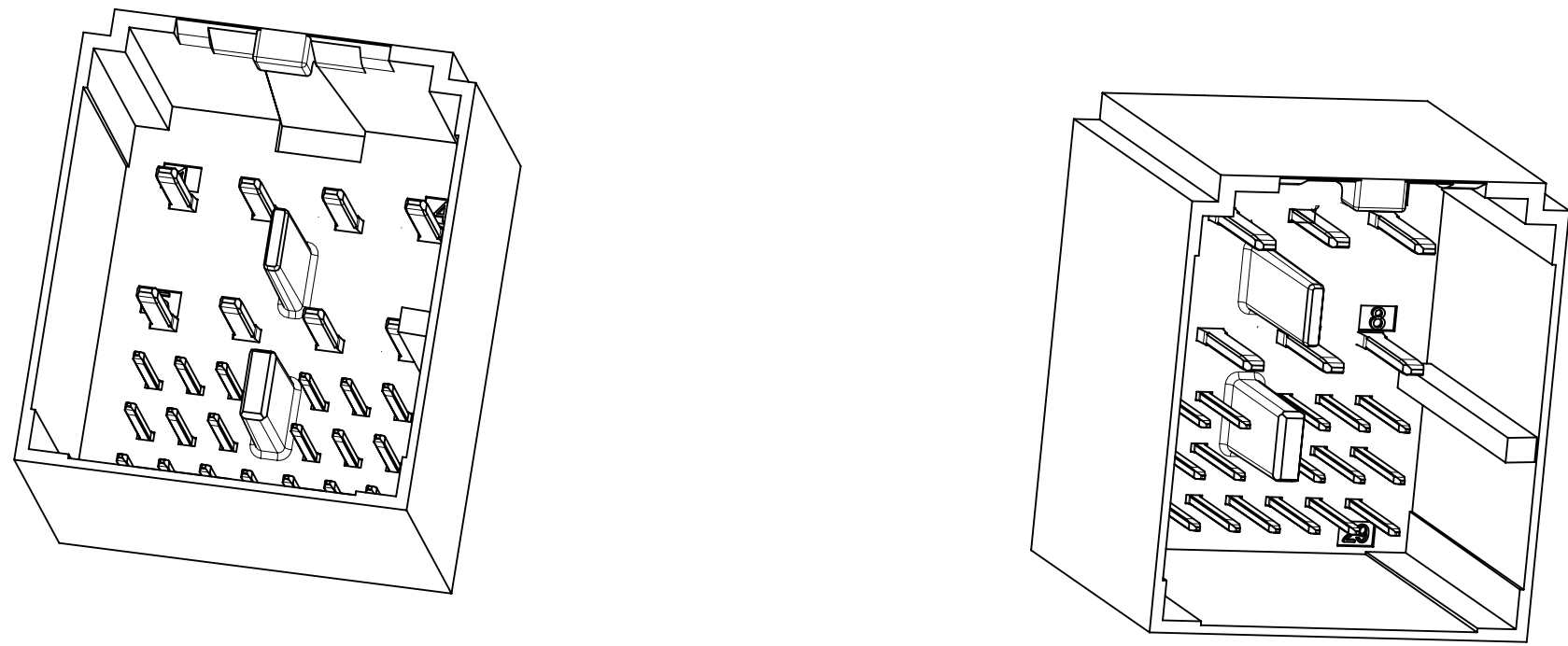
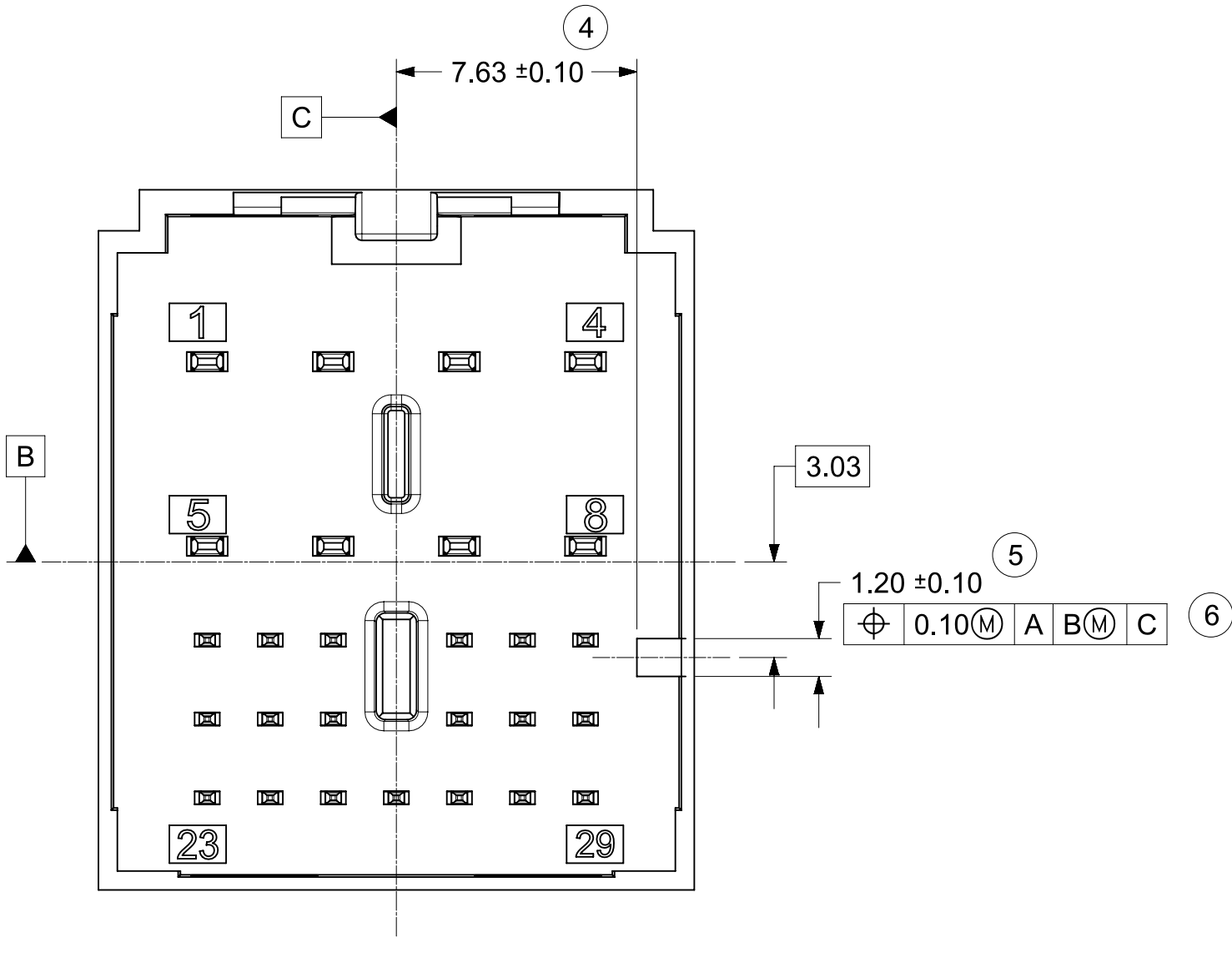
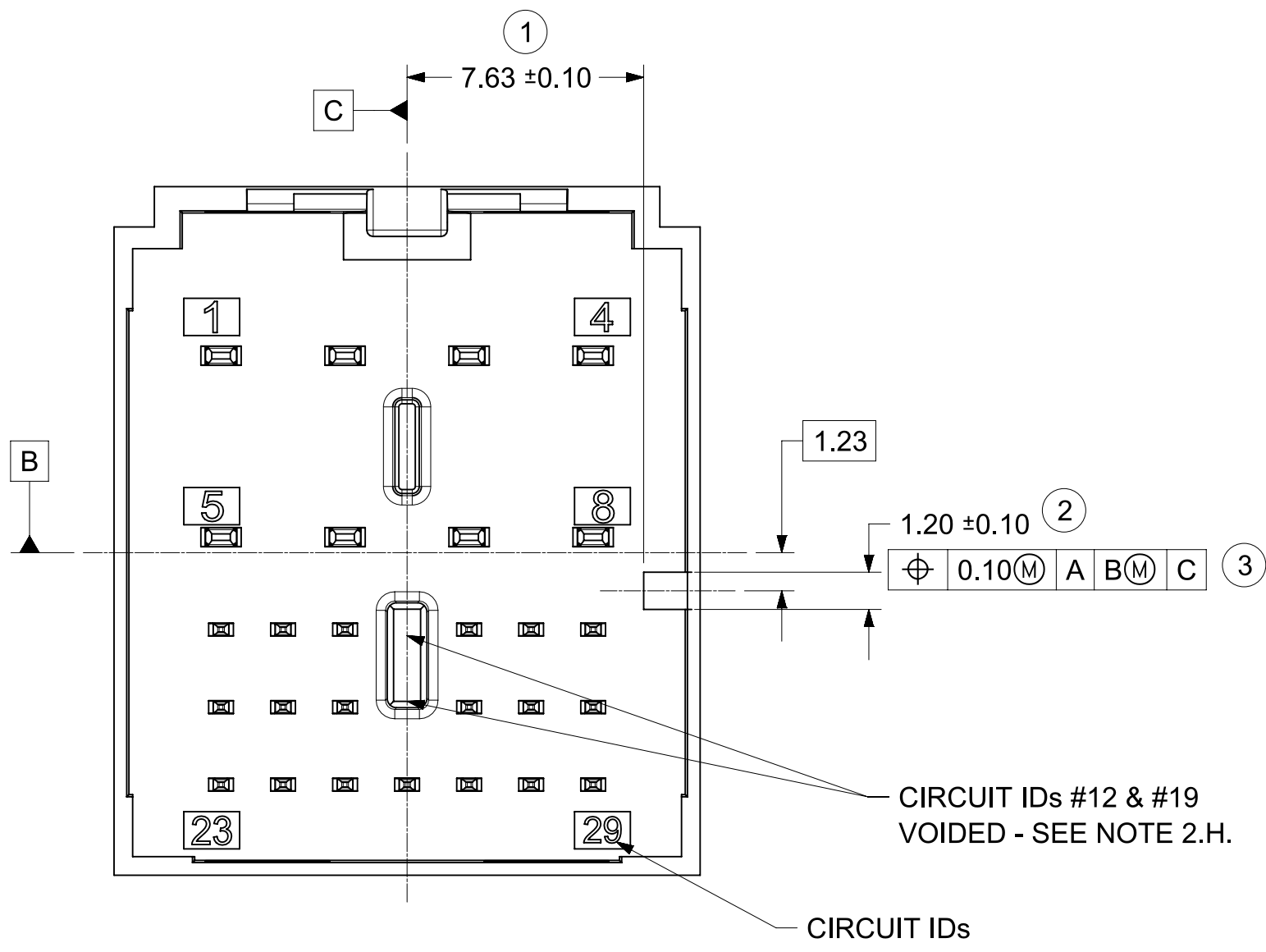
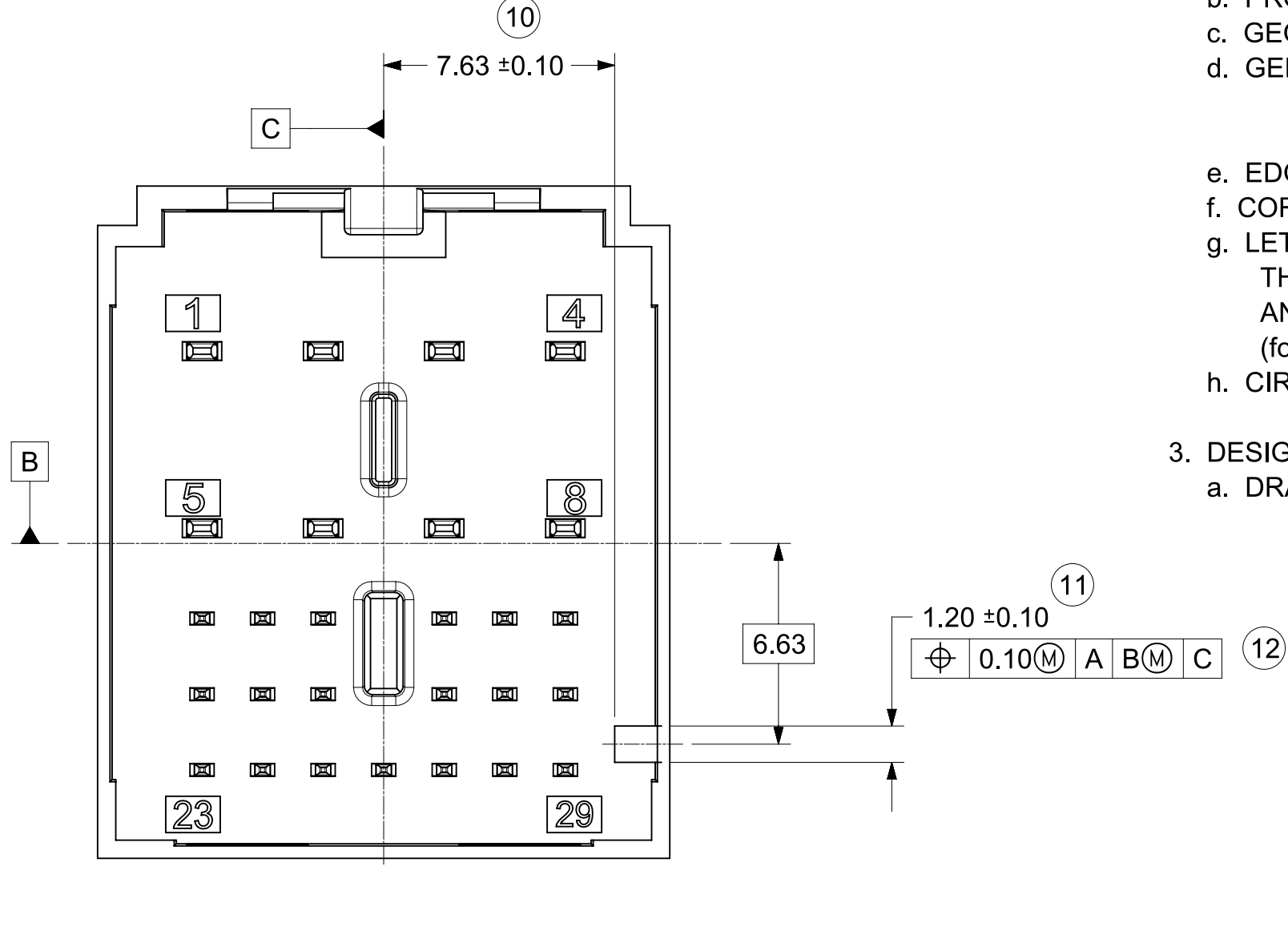
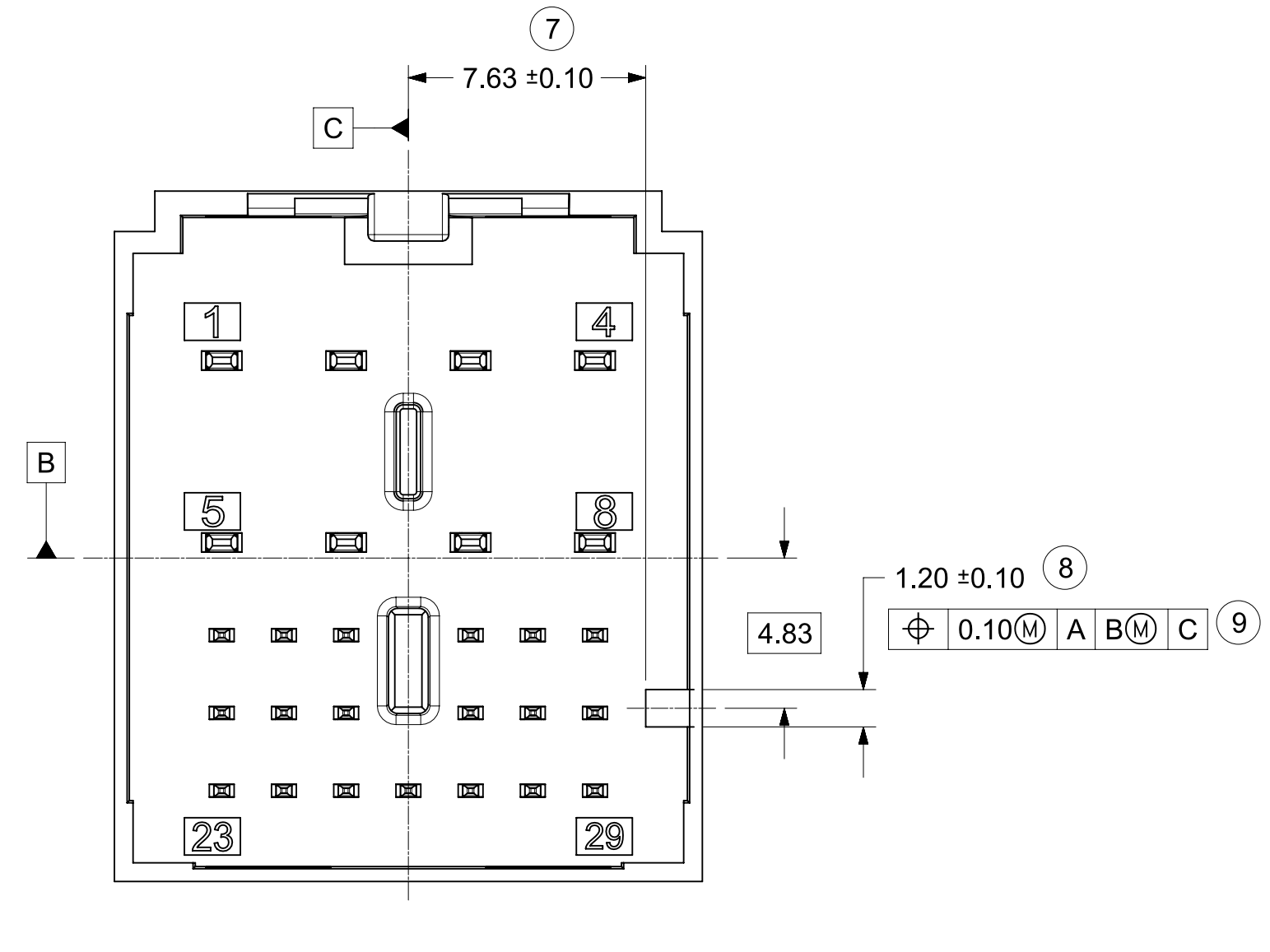




- NOTES: VALID UNLESS OTHERWISE SPECIFIED
- DESIGN - MATERIALS:
    - RESIN MATERIAL: PBT+GF30 OR SPS+GF30 OR EQUIVALENT
    - PIN/BLADE MATERIAL: COPPER ALLOY
    - PLATING: ACCORDING TO USCAR DRAWING EWCAP-001 TIN REFLOW WITH UNDERPLATE.
    - PIN TIPS ACCORDING TO USCAR DRAWING EWCAP-001 (120-T002 AND 050-T001)
    - DEVIATION TO EWCAP-001 ACCEPTABLE IF PERFORMANCE(ELECTRICAL/MECHANICAL)IS SHOWN TO BE EQUAL OR BETTER AS REQUIRED BY VALIDATION TESTING.
  - DESIGN - GEOMETRY:
    - ALL GRAPHIC DATA IS BASIC (NO TOLERANCE) AND MUST BE TAKEN FROM THE DATA FILE AT ITS LATEST REVISION.
    - PRODUCT DESIGN MODEL NUMBER(S): SEE BOM TABLE
    - GEOMETRIC DIMENSIONS AND TOLERANCES PER ASME Y14.5M-2009
    - GENERAL TOLERANCES:
      - LINEAR: PER DIN 16901 LINEAR CODE B FOR PRECISION ENGINEERING
      - ANGULAR: ± 3°
    - EDGES AND UNDIMENSIONED DETAILS PER ISO13715
    - CORNERS SHOWN AS SHARP TO BE R 0.2 MAX.
    - LETTERING SHALL BE 0.15 MAX RAISED IN 0.25 MAX RECESS PAD. THIS INCLUDES RECYCLING CODE, CAVITY ID, VENDOR IDENTIFICATION, AND CUSTOMER MATERIAL NUMBER. (for small parts: LETTERING SHALL BE 0.10 MAX RAISED IN 0.15 MAX RECESS PAD)
    - CIRCUIT LOCATIONS 12 AND 19 VOIDED FOR 27WAY INTERFACE
  - DESIGN - MANUFACTURING:
    - DRAFT TO BE WITHIN TOLERANCE.



|     |                                                       |
|-----|-------------------------------------------------------|
| C   | NOTES 1.B UPDATED                                     |
| B1  | ADDED BALLOONS<br>JCONDON 08/02/2018                  |
| B   | REMOVED 0.2MM FROM<br>CONNECTOR LOCK TAB<br>FEATURE   |
| A1  | NOTE 1.E. ADDED<br>JCONDON 11/13/2017                 |
| A   | NX-REMASTERING<br>SAP # 10867412                      |
| 9   | UAU2016-1182<br>SAP # 10762453<br>JCONDON 02/08/2016  |
| 8   | UAU2016-0542<br>SAP # 10728331<br>JCONDON 10/20/2015  |
| 7   | UAU2015-1446<br>SAP # 10681629<br>JCONDON 03/25/2015  |
| 6   | UAU2015-1212<br>SAP # 10674908<br>JCONDON 02/06/2015  |
| 5   | UAU2015-1036<br>SAP # 10670355<br>JCONDON 01/07/2015  |
| 4   | UAU2015-0634<br>SAP # 10661788<br>JCONDON 10/22/2014  |
| 3   | UAU2014-1679<br>SAP # XXXXXXXX<br>JCONDON 03/17/2014  |
| 2   | UAU2014-1221<br>SAP # XXXXXXXX<br>MYOUNG01 01/31/2014 |
| 1   | UAU2014-0715<br>SAP # XXXXXXXX<br>DAHALL 11/20/2013   |
| REV | DESCRIPTION                                           |

FUNCTIONAL SYMBOLS

$\frac{F}{A} = 0$

$\frac{F}{C} = 0$

$\frac{F}{P} = 0$

DIVISIONAL SYMBOLS

THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION

DIMENSION UNITS

MM

SCALE

5:1

GENERAL TOLERANCES (UNLESS SPECIFIED)

ANGULAR TOL ± 0.5°

4 PLACES ±

3 PLACES ±

2 PLACES ±

1 PLACES ±

0 PLACES ±

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

CURRENT REV DESC: SEE REVISION TABLE

STATUS: Production

DRWN: Yann Chen

CHK'D: Nick Wang

APPR: Ringo Hu

2025-03-05

2025-03-07

2025-03-07

THIRD ANGLE PROJECTION

DRAWING

D-SIZE

SERIES

160029

27WAY STAK50H  
INTERFACE DRAWING

PRODUCT CUSTOMER DRAWING

DOCUMENT NUMBER

SD-160029-002

DOC TYPE

PSD

DOC PART

001

REVISION

C

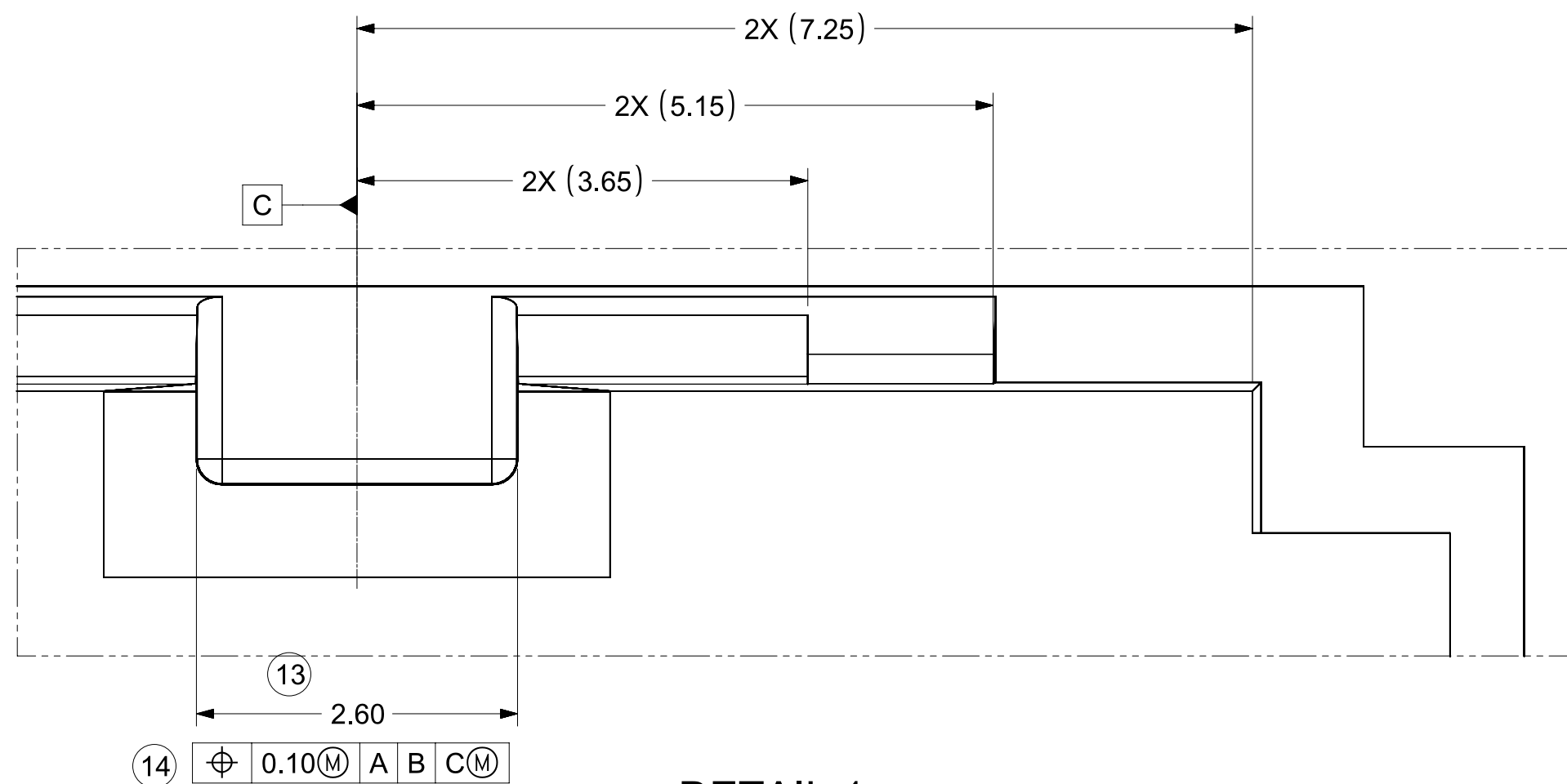
MATERIAL NUMBER

CUSTOMER

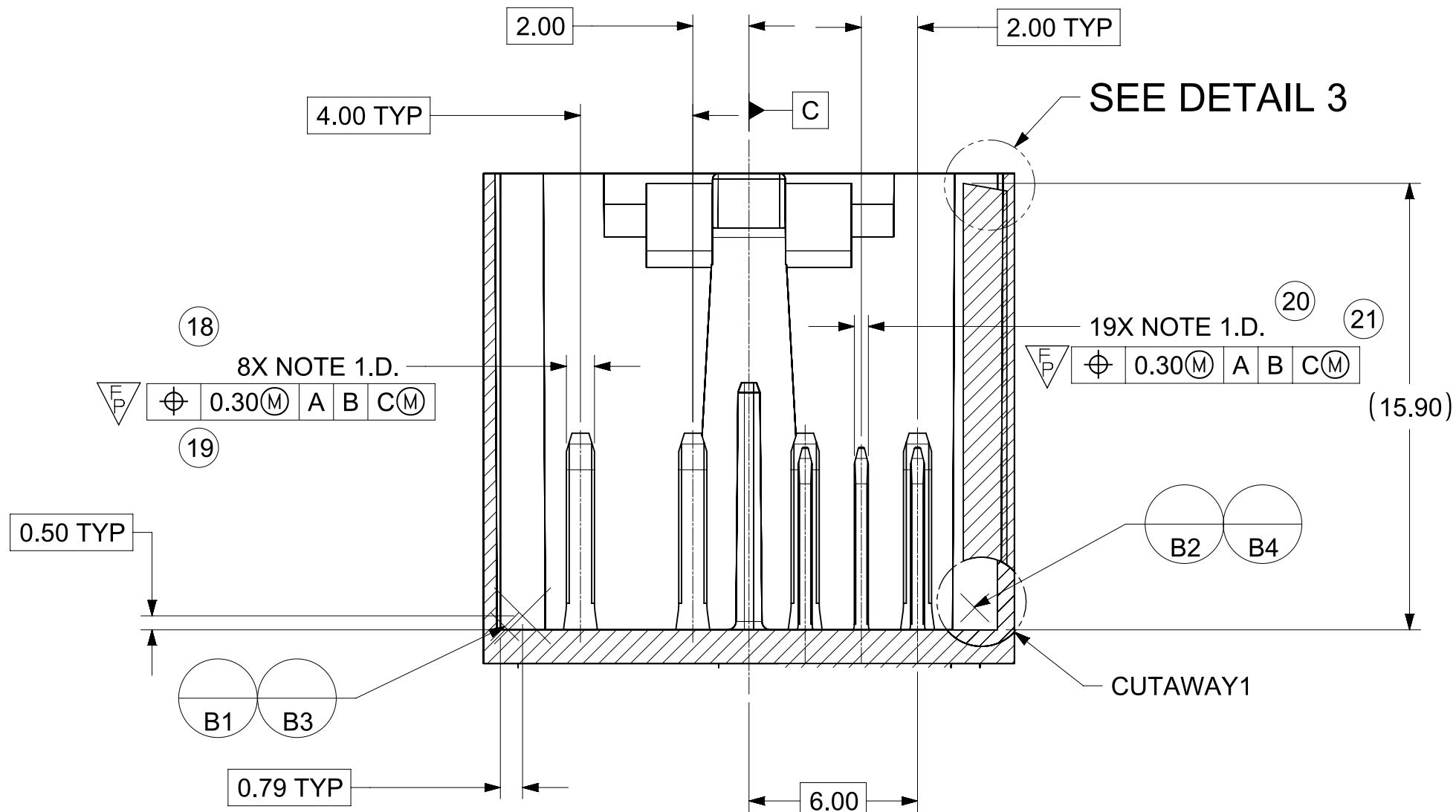
GENERAL MARKET

SHEET NUMBER

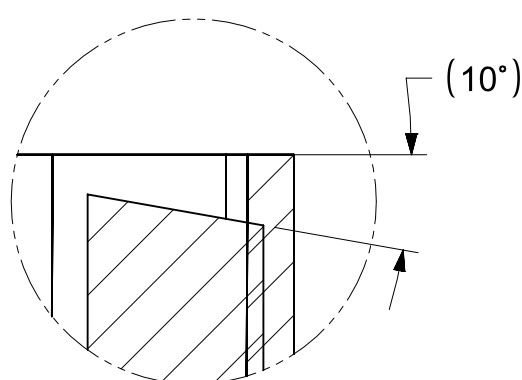
1 OF 3



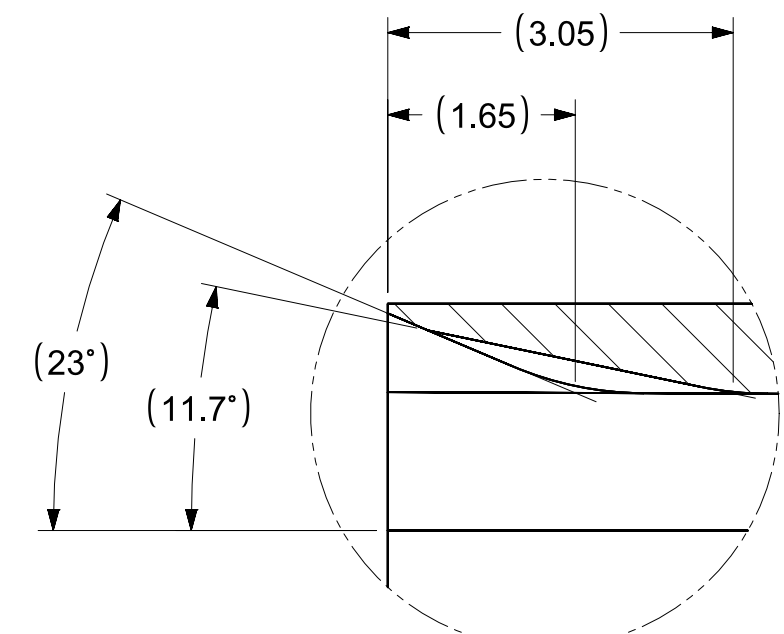
DETAIL 1  
SCALE 20:1



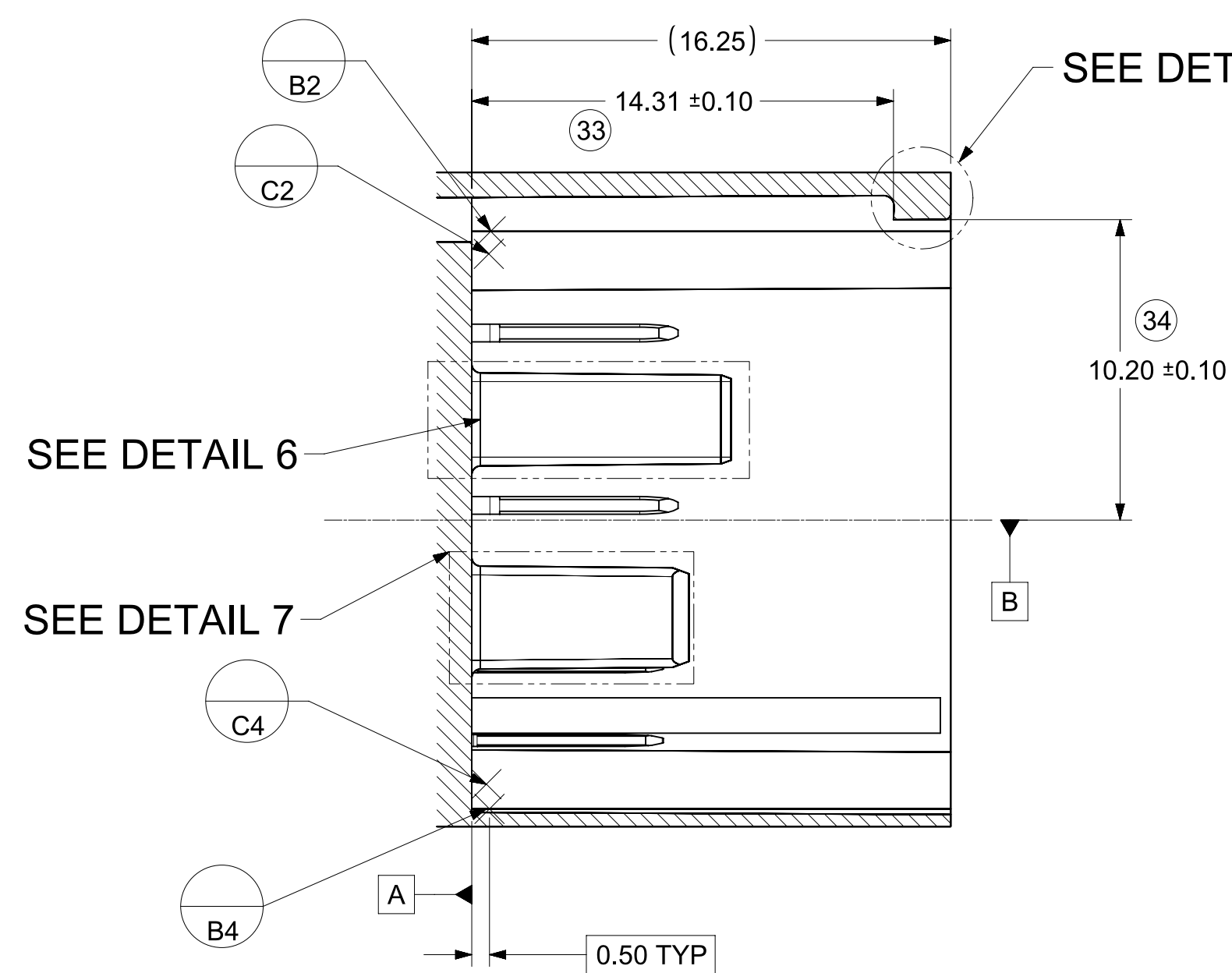
SECTION X-X



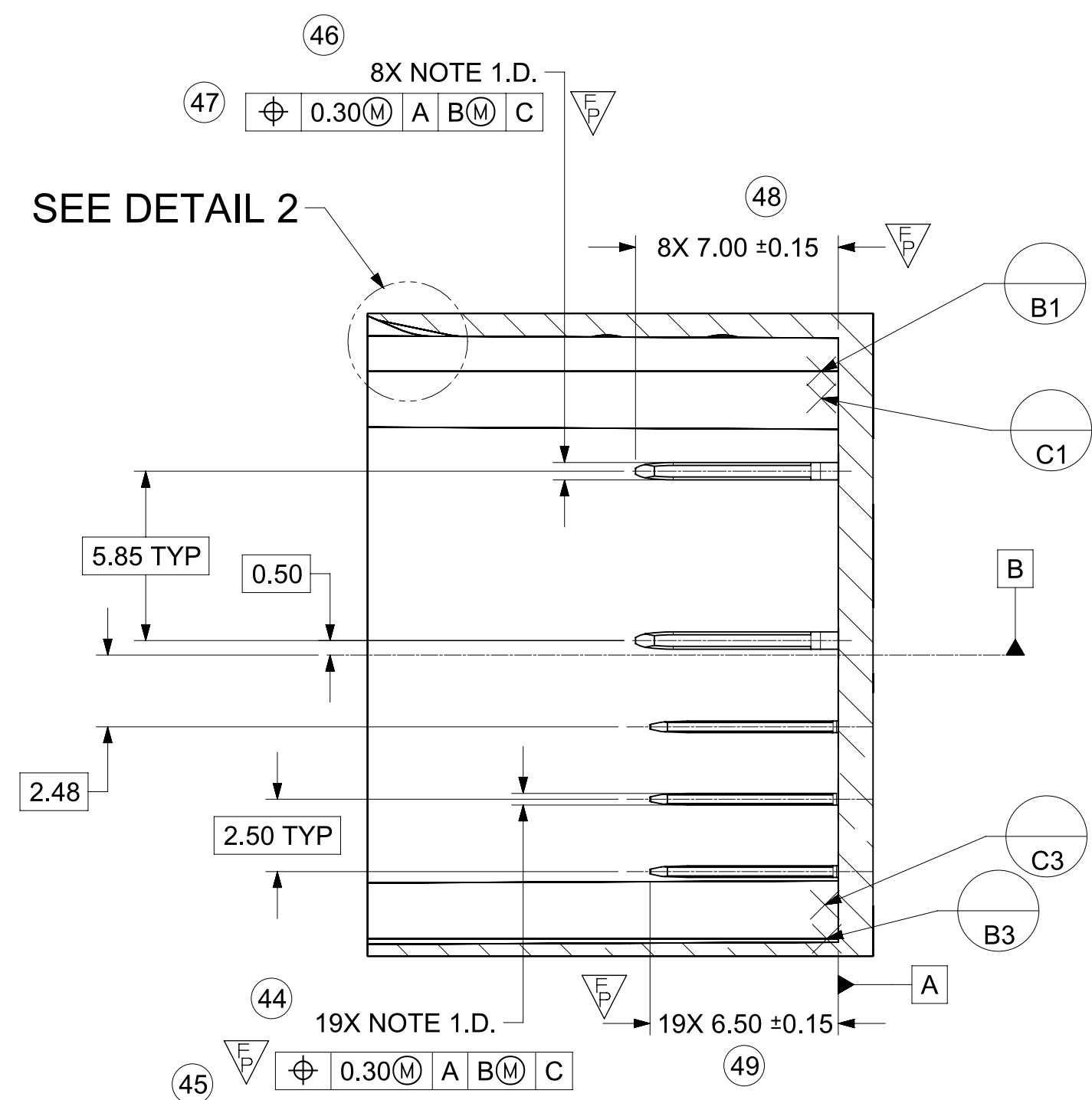
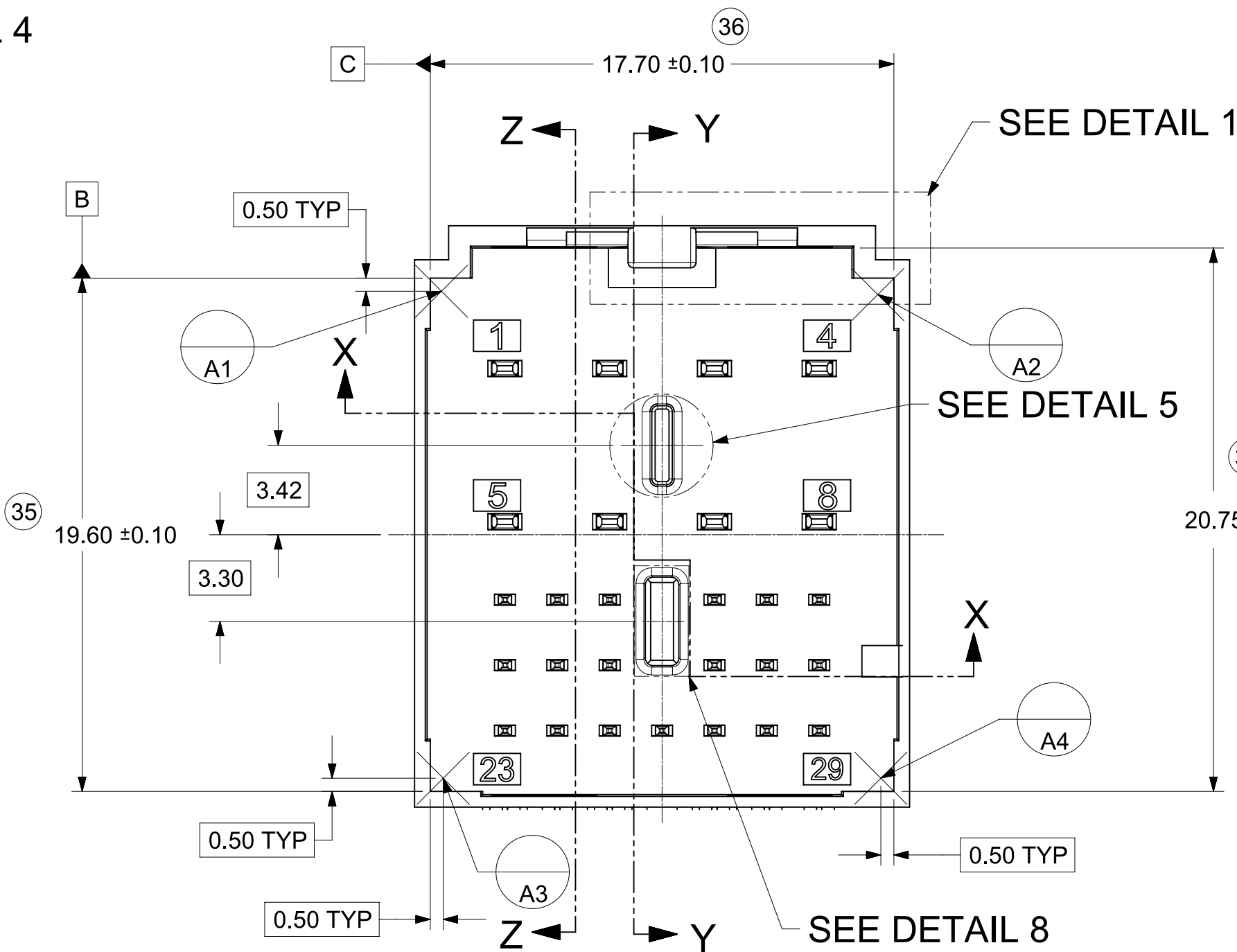
DETAIL 3  
SCALE 15:1



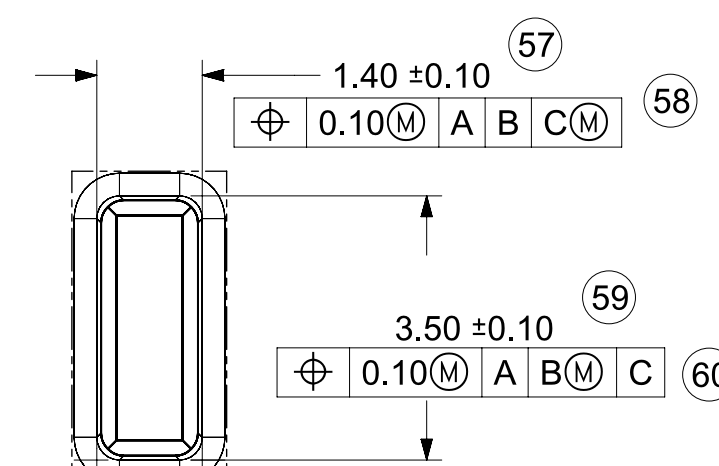
DETAIL 2  
SCALE 15:1



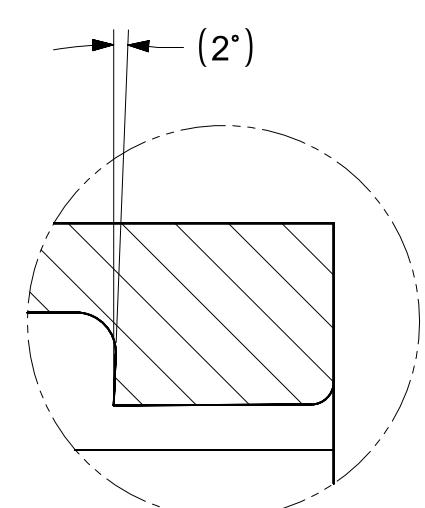
SECTION Y-Y



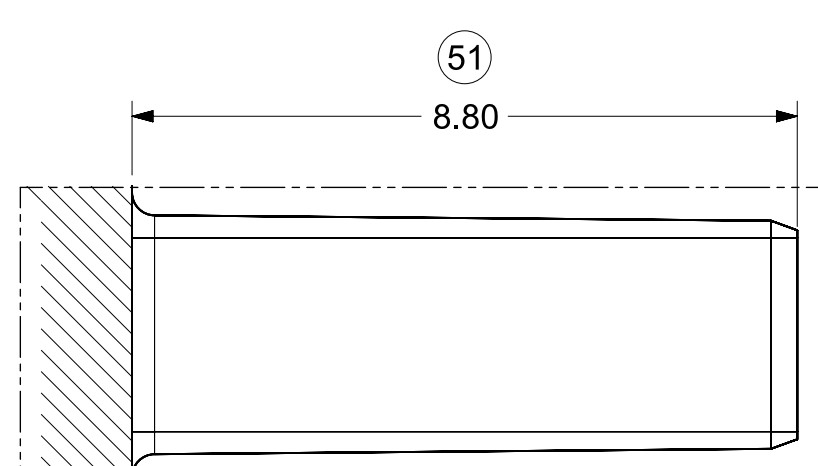
SECTION Z-Z



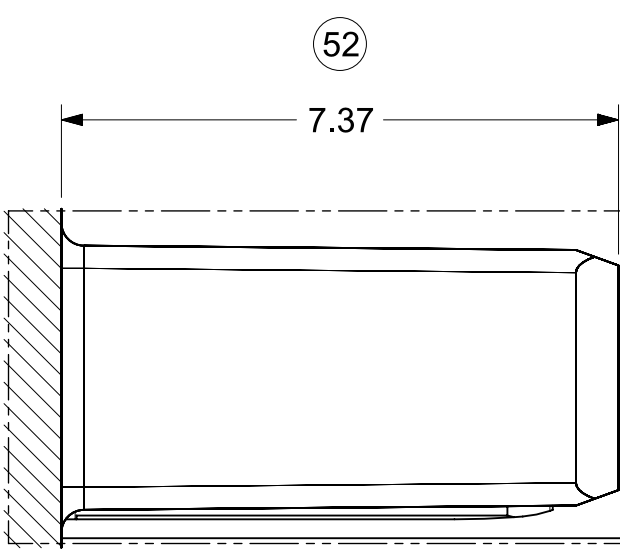
DETAIL 8  
SCALE 10:1



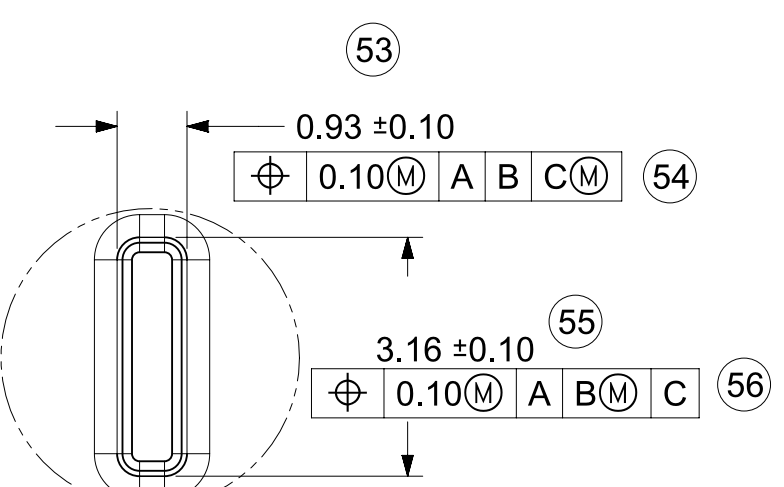
DETAIL 4  
SCALE 15:1



DETAIL 6  
SCALE 10:1



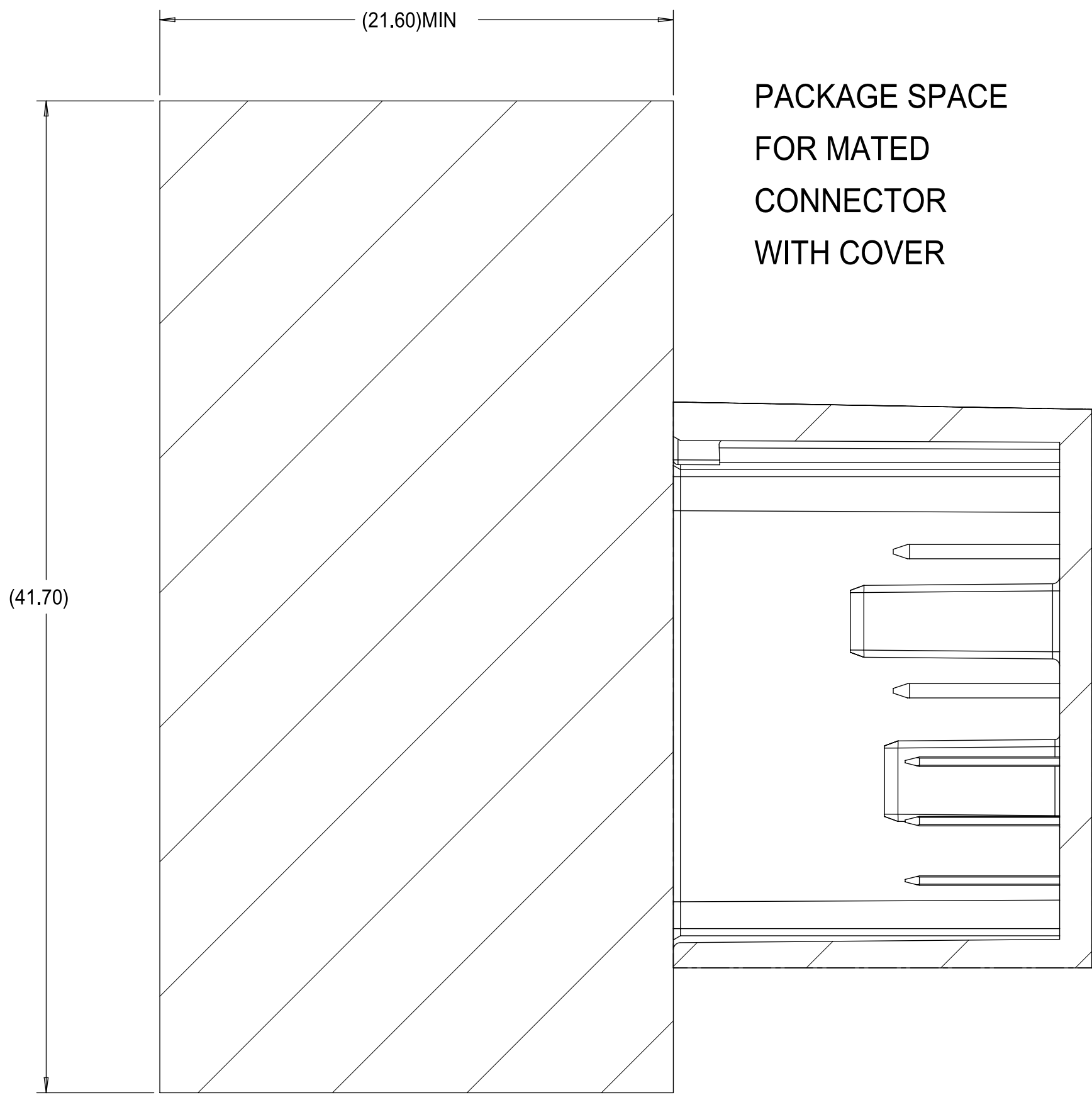
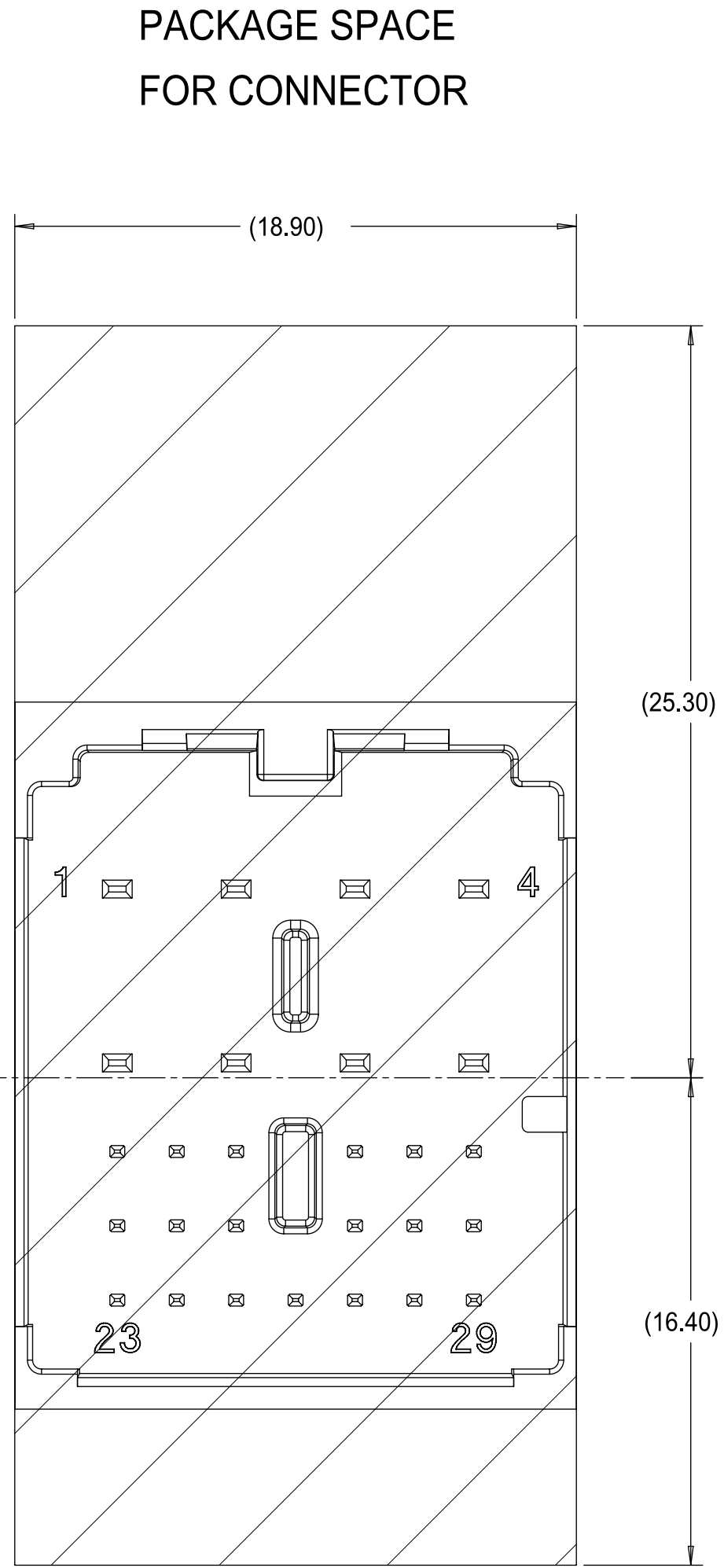
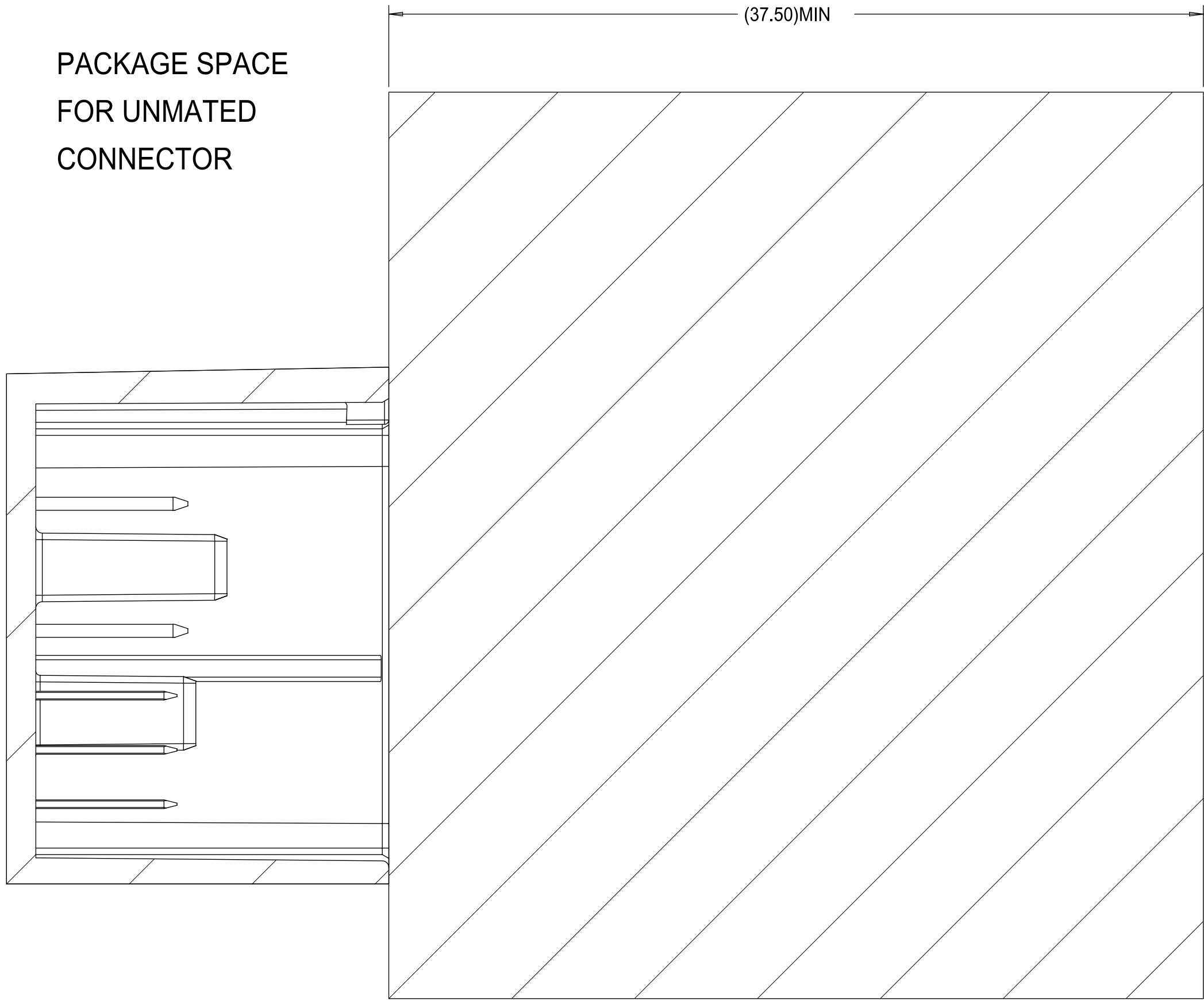
DETAIL 7  
SCALE 10:1



DETAIL 5  
SCALE 10:1

|                                                                                      |                                                                                                                                               |   |       |                        |                                      |         |  |                                        |  |                                                                             |  |
|--------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|---|-------|------------------------|--------------------------------------|---------|--|----------------------------------------|--|-----------------------------------------------------------------------------|--|
| <b>FUNCTIONAL SYMBOLS</b><br>FA = 0<br>FC = 0<br>FP = 6<br><b>DIVISIONAL SYMBOLS</b> | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION |   |       |                        |                                      |         |  |                                        |  |                                                                             |  |
|                                                                                      | DIMENSION UNITS                                                                                                                               |   | SCALE |                        | CURRENT REV DESC: SEE REVISION TABLE |         |  |                                        |  |                                                                             |  |
|                                                                                      | MM                                                                                                                                            |   | 5:1   |                        |                                      |         |  |                                        |  |                                                                             |  |
|                                                                                      | GENERAL TOLERANCES (UNLESS SPECIFIED)                                                                                                         |   |       |                        |                                      |         |  |                                        |  |                                                                             |  |
|                                                                                      | ANGULAR TOL ± 0.5°                                                                                                                            |   |       |                        |                                      |         |  |                                        |  |                                                                             |  |
| 4 PLACES                                                                             |                                                                                                                                               | ± |       |                        |                                      |         |  |                                        |  |                                                                             |  |
| 3 PLACES                                                                             |                                                                                                                                               | ± |       |                        |                                      |         |  |                                        |  |                                                                             |  |
| 2 PLACES                                                                             |                                                                                                                                               | ± |       |                        |                                      |         |  |                                        |  |                                                                             |  |
| 1 PLACE                                                                              |                                                                                                                                               | ± |       |                        |                                      |         |  |                                        |  |                                                                             |  |
| 0 PLACES                                                                             |                                                                                                                                               | ± |       |                        |                                      |         |  |                                        |  |                                                                             |  |
| DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS                                 |                                                                                                                                               |   |       | THIRD ANGLE PROJECTION |                                      | DRAWING |  | SERIES                                 |  | STATUS: Production<br>DRWN: Yann Chen<br>CHK'D: Nick Wang<br>APPR: Ringo Hu |  |
|                                                                                      |                                                                                                                                               |   |       | D-SIZE                 |                                      | 160029  |  | 2025-03-05<br>2025-03-07<br>2025-03-07 |  | 2025-03-05<br>2025-03-07<br>2025-03-07                                      |  |

|                                    |  |                |          |              |  |
|------------------------------------|--|----------------|----------|--------------|--|
| <b>molex</b>                       |  |                |          |              |  |
| 27WAY STAK50H<br>INTERFACE DRAWING |  |                |          |              |  |
| PRODUCT CUSTOMER DRAWING           |  |                |          |              |  |
| DOCUMENT NUMBER                    |  | DOC TYPE       | DOC PART | REVISION     |  |
| SD-160029-002                      |  | PSD            | 001      | C            |  |
| MATERIAL NUMBER                    |  | CUSTOMER       |          | SHEET NUMBER |  |
|                                    |  | GENERAL MARKET |          | 2 OF 3       |  |



|                                                                                                                                               |                                                      |  |       |                                                                                       |                                                                                                                  |        |  |        |  |                          |  |                |  |        |  |
|-----------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------|--|-------|---------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------|--------|--|--------|--|--------------------------|--|----------------|--|--------|--|
| THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION |                                                      |  |       |                                                                                       |                                                                                                                  |        |  |        |  |                          |  |                |  |        |  |
| FUNCTIONAL SYMBOLS<br><br>F <sub>A</sub> = 0<br><br>F <sub>C</sub> = 0<br><br>F <sub>P</sub> = 0<br><br>DIVISIONAL SYMBOLS                    | DIMENSION UNITS                                      |  | SCALE |                                                                                       | CURRENT REV DESC: SEE REVISION TABLE                                                                             |        |  |        |  | molex                    |  |                |  |        |  |
|                                                                                                                                               | MM                                                   |  | 5:1   |                                                                                       |                                                                                                                  |        |  |        |  |                          |  |                |  |        |  |
|                                                                                                                                               | GENERAL TOLERANCES (UNLESS SPECIFIED)                |  |       |                                                                                       |                                                                                                                  |        |  |        |  |                          |  |                |  |        |  |
|                                                                                                                                               | ANGULAR TOL ± 0.5°                                   |  |       |                                                                                       |                                                                                                                  |        |  |        |  |                          |  |                |  |        |  |
|                                                                                                                                               | 4 PLACES                                             |  | ±     |                                                                                       |                                                                                                                  |        |  |        |  |                          |  |                |  |        |  |
|                                                                                                                                               | 3 PLACES                                             |  |       |                                                                                       | STATUS: Production<br><br>DRWN: Yann Chen 2025-03-05<br>CHK'D: Nick Wang 2025-03-07<br>APPR: Ringo Hu 2025-03-07 |        |  |        |  | PRODUCT CUSTOMER DRAWING |  |                |  |        |  |
|                                                                                                                                               | 2 PLACES                                             |  | ±     |                                                                                       |                                                                                                                  |        |  |        |  |                          |  |                |  |        |  |
|                                                                                                                                               | 1 PLACES                                             |  | ±     |                                                                                       |                                                                                                                  |        |  |        |  |                          |  |                |  |        |  |
|                                                                                                                                               | 0 PLACES                                             |  | ±     |                                                                                       |                                                                                                                  |        |  |        |  |                          |  |                |  |        |  |
|                                                                                                                                               | DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS |  |       |                                                                                       |                                                                                                                  |        |  |        |  | THIRD ANGLE PROJECTION   |  | DRAWING        |  | SERIES |  |
|                                                                                                                                               |                                                      |  |       |  |                                                                                                                  | D-SIZE |  | 160029 |  |                          |  | GENERAL MARKET |  | 3 OF 3 |  |