

| TABLE OF CONTENTS |                               |
|-------------------|-------------------------------|
| SHEET NO.         | SHEET DESCRIPTION             |
| 1                 | NOTES AND BOM                 |
| 2                 | CONFIGURATIONS                |
| 3                 | KEY CONFIGURATIONS            |
| 4                 | RECEPTACLE CONNECTOR ASSEMBLY |

NOTES: VALID UNLESS OTHERWISE SPECIFIED

1. GENERAL:
- a. APPLICATION SPECIFICATION SEE: 1601110001-AS
- CONTAINS: PRODUCT INTRODUCTION, PRODUCT SUMMARY, CONNECTOR ASSEMBLY, PACKAGING INFORMATION, CONNECTOR MATING, SERVICE INSTRUCTIONS, ELECTRICAL CONTINUITY CHECKING, CRIMPING, AND TROUBLESHOOTING.
  - DESIGNED TO MATE WITH DEVICE OR CONNECTOR AS SPECIFIED IN THE MATING INTERFACE/CONNECTOR DRAWINGS CHART.
  - \*DENOTES DRAWINGS THAT CAN BE ACCESED AT <http://ewcap.uscarteams.org/>.
  - ASSEMBLY SHIPPED WITH PLR IN PRE-LOCK POSITION (SEE PLR PRE-LOCK VIEW SHEET 4).
- b. PRODUCT SPECIFICATION SEE: 1600760001-PS
- CONTAINS: SCOPE, PRODUCT DESCRIPTION, INTEGRAL COMPONENTS AND ACCESSORIES, APPLICABLE DOCUMENTS AND SPECIFICATIONS, RATINGS, PERFORMANCE, PACKAGING, GAUGES AND FIXTURES, AND OTHER INFORMATION
- c. PACKAGING SPECIFICATION PER MOLEX DRAWING: SEE PACKAGING CHART
- d. PARTS MUST BE IN COMPLIANCE TO MOLEX CHEMICAL SUBSTANCES FOR PRODUCTS AND PACKAGING SPECIFICATION: QEHS-699000-300
- e. DATA MUST BE SUBMITTED UNDER THE MOLEX PART NUMBER TO IMDS (COMPANY ID#13255)

2. DESIGN - MATERIALS:

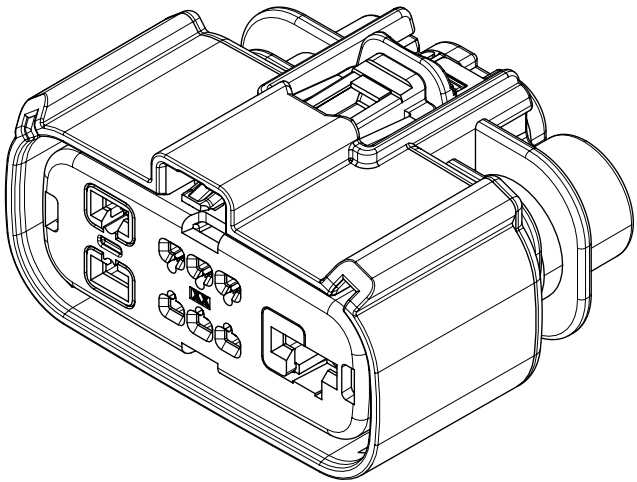
- a. SEE BOM TABLE IN SD-160076-0002

3. DESIGN - GEOMETRY:

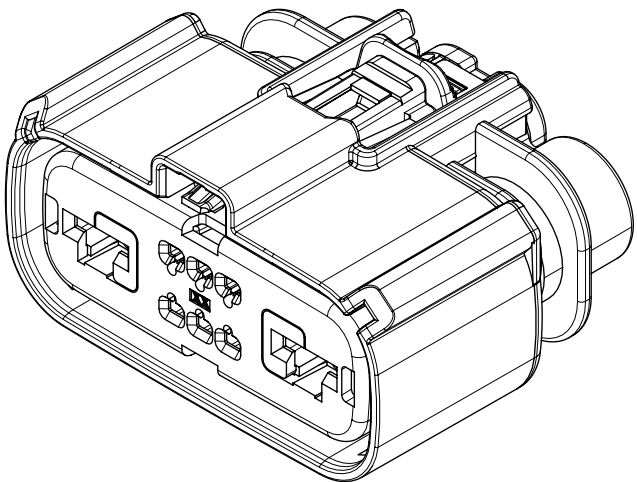
- a. THE 3-D CAD DATA IS BASIC (WITHOUT TOLERANCE) AND MASTER FOR THIS PART WITH THE EXCEPTION OF UNDERLINED DIMENSIONS, DIMENTIONAL INFORMATION NOT SHOWN ON THIS DRAWING IS DEFINED BY THE DATA FILE AT ITS LATEST REVISION.
- b. GEOMETRIC DIMENSIONS AND TOLERANCES PER ASME Y14.5M-2009
- c. EDGES AND UNDIMENSIONED DETAILS PER ISO13715
- d. CORNERS SHOWN AS SHARP TO BE R 0.2 MAX.
- e. LETTERING SHALL BE 0.15 MAX RAISED IN 0.25 MAX RECESS PAD. THIS INCLUDES RECYCLING CODE, CAVITY ID, VENDOR IDENTIFICATION.
- f. VISUAL DEFECTS SHALL MEET COSMETIC STANDARD PS-45499-002 (Class B).
- g. LASER MARKING:
1. PART NUMBER
  2. DAY OF THE YEAR
  3. MACHINE NO.
  4. YEAR
- FOR ADDITIONAL INFORMATION REFERENCE SECTION 5 UNDER PROCEDURES IN ES-34735-008.

| PACKAGING                  |              |
|----------------------------|--------------|
| DESCRIPTION                | DRAWING NO.  |
| 10 WAY HYBRID (1.5/2.8)    | PK-31300-903 |
| 8 WAY HYBRID (1.5/6.3)     | PK-31300-903 |
| 9 WAY HYBRID (1.5/2.8/6.3) | PK-31300-903 |

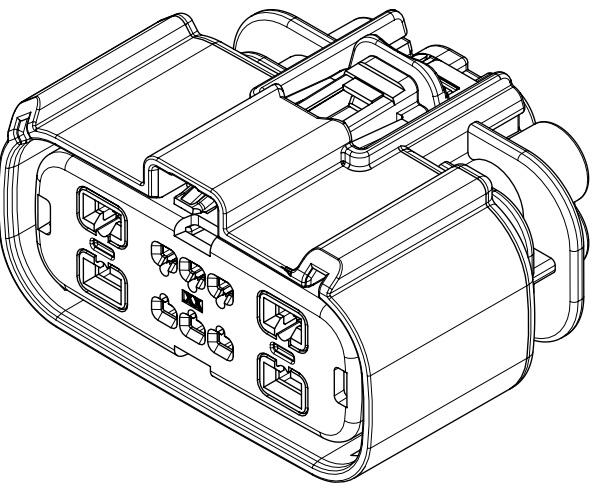
| MATING INTERFACE/CONNECTOR DRAWINGS |                      |                |
|-------------------------------------|----------------------|----------------|
| DESCRIPTION                         | INTERFACE DEFINITION | MOLEX INLINE   |
| 10 WAY HYBRID (1.5/2.8)             | 999-S-010-2-Z01      | SD-160077-0001 |
| 8 WAY HYBRID (1.5/6.3)              | 999-S-008-2-Z01      | SD-160077-0001 |
| 9 WAY HYBRID (1.5/2.8/6.3)          | 999-S-009-2-Z01      | SD-160077-0001 |



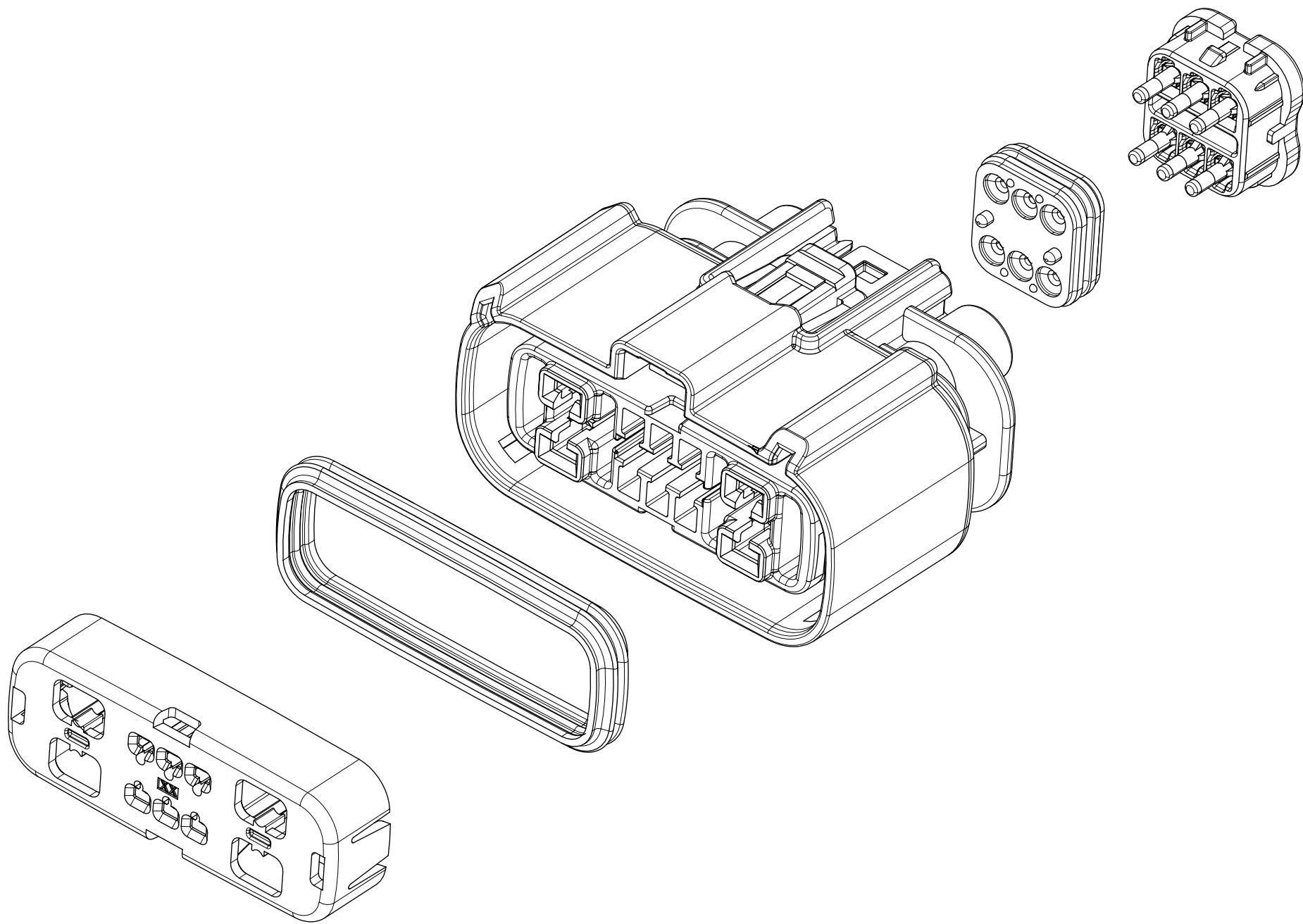
160080 SERIES



160078 SERIES



160076 SERIES



| INSPECTION NUMBER LOG |  |
|-----------------------|--|
| LAST NUMBER: 5        |  |
| ADDED:                |  |
| REMOVED:              |  |

|     |                                          |
|-----|------------------------------------------|
| A8  | UPDATED VIEWS IN SHEET 5                 |
| A7  | ADDED INTERFACE DRAWINGS IN SHEETS 5,6,7 |
| A6  | UPDATED VIEWS & GENERAL NOTES            |
| A5  | UPDATED DRAWING ALONG WITH NEW MODELS    |
| A4  | MIGRATED DOCUMENT FROM HISTORY           |
| A3  | UPDATE KEYING STRATEGY                   |
| A2  | UPDATE DIMENSION 3                       |
| A1  | UPDATE PACKAGING DRAWINGS                |
| A   | RELEASE OK TO TOOL                       |
| REV | REV DESCRIPTION                          |

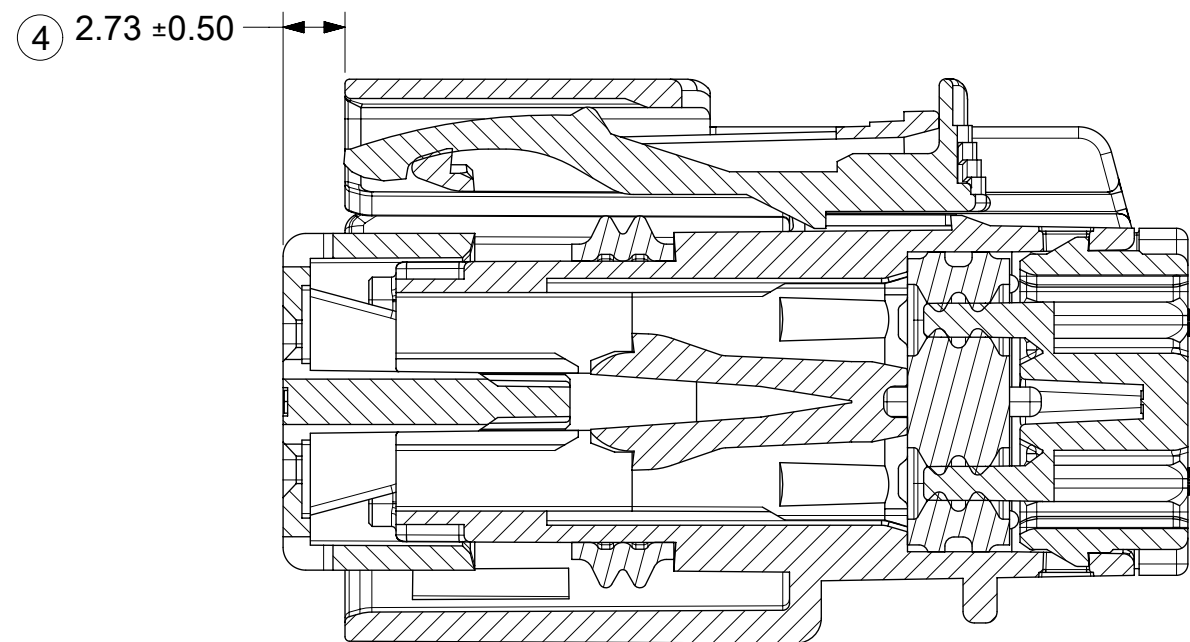
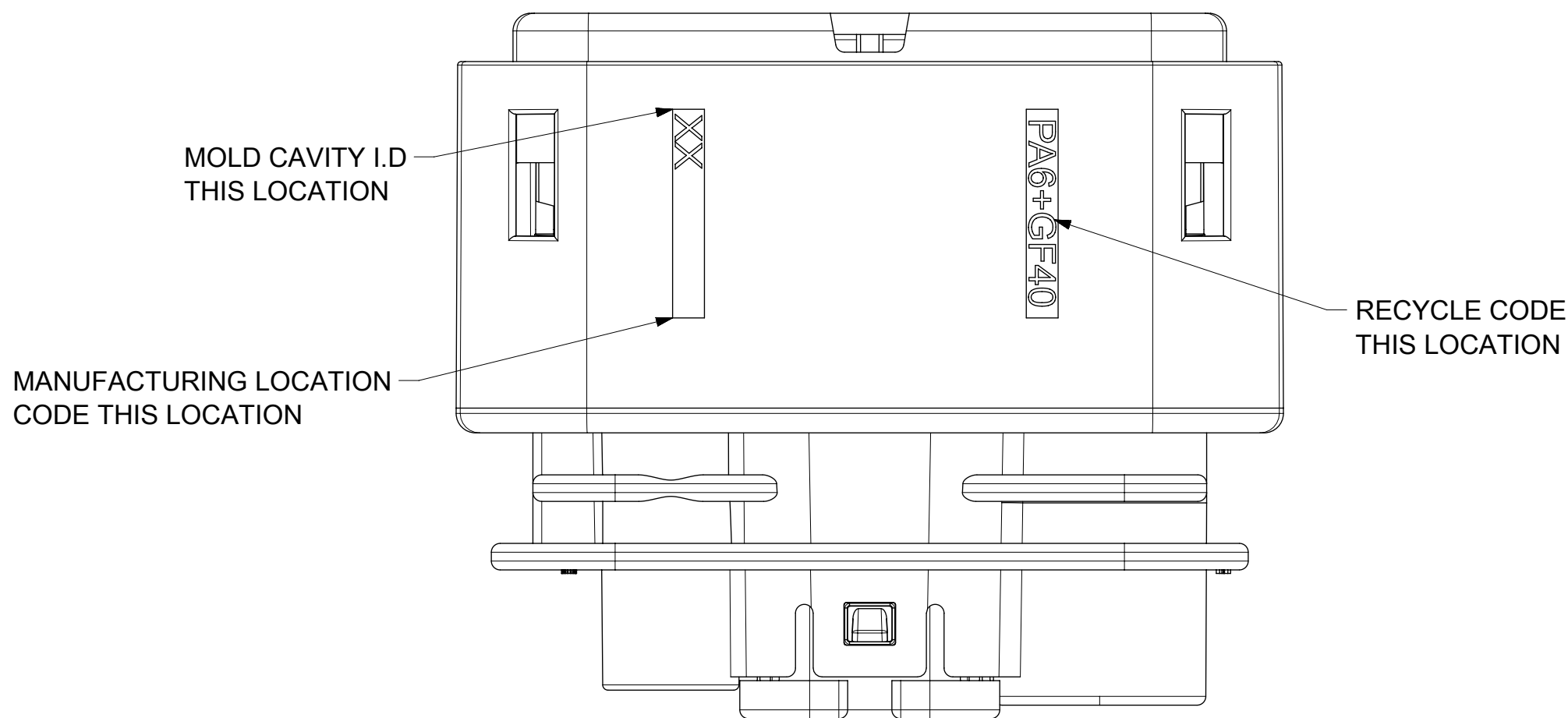
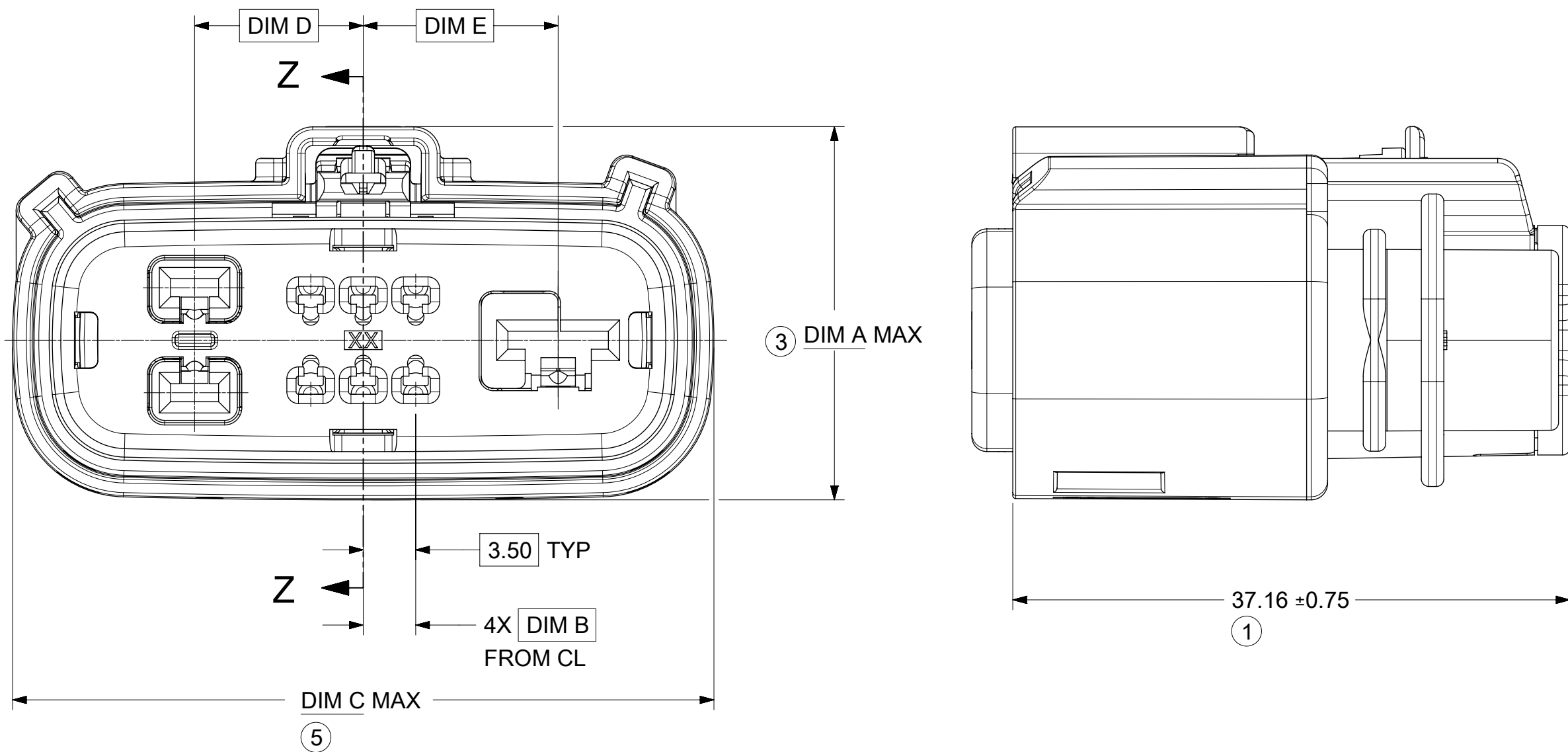
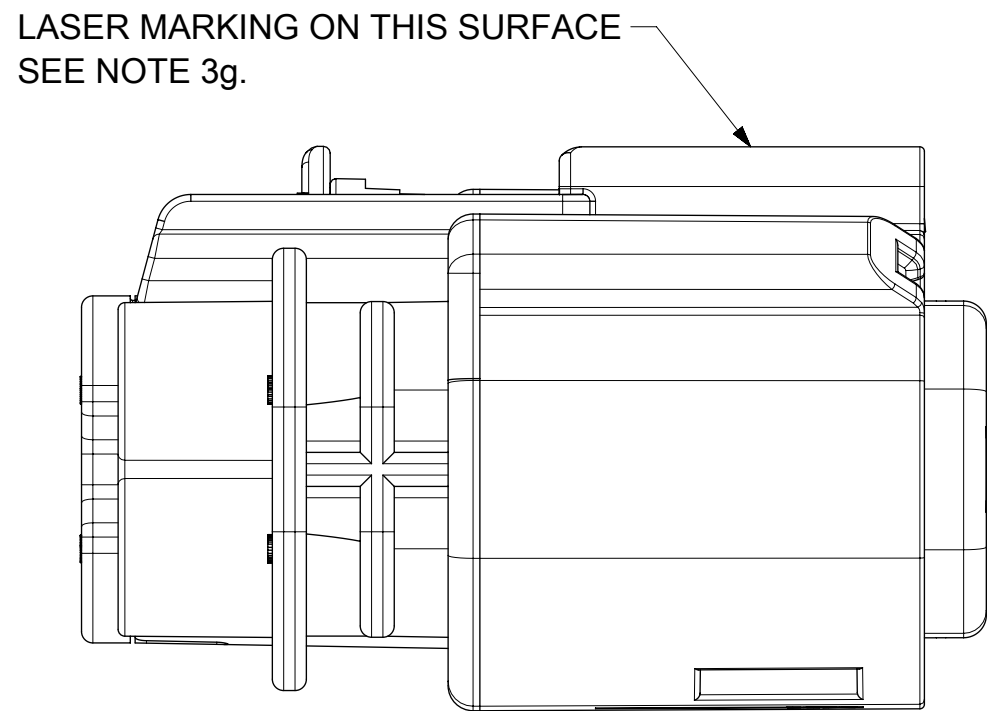
| SYMBOLS | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION |                                                         |  |       |  |                   |                                                                            |  |  |  |                  |                                                                                                                |  |  |  |  |        |  |  |  |  |                 |  |  |  |  |                |  |  |  |  |              |  |  |  |  |
|---------|-----------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------|--|-------|--|-------------------|----------------------------------------------------------------------------|--|--|--|------------------|----------------------------------------------------------------------------------------------------------------|--|--|--|--|--------|--|--|--|--|-----------------|--|--|--|--|----------------|--|--|--|--|--------------|--|--|--|--|
|         | = 0                                                                                                                                           | DIMENSION UNITS                                         |  | SCALE |  | CURRENT REV DESC: |                                                                            |  |  |  | <div>molex</div> |                                                                                                                |  |  |  |  |        |  |  |  |  |                 |  |  |  |  |                |  |  |  |  |              |  |  |  |  |
|         |                                                                                                                                               | mm                                                      |  | 2:1   |  |                   |                                                                            |  |  |  |                  |                                                                                                                |  |  |  |  |        |  |  |  |  |                 |  |  |  |  |                |  |  |  |  |              |  |  |  |  |
|         | = 0                                                                                                                                           | GENERAL TOLERANCES (UNLESS SPECIFIED)                   |  |       |  |                   | MX150 HYB RCPT DUAL ROW SEALED ASSY<br>DUAL ROW SEALED ASSEMBLY MAT SEAL   |  |  |  |                  |                                                                                                                |  |  |  |  |        |  |  |  |  |                 |  |  |  |  |                |  |  |  |  |              |  |  |  |  |
|         | = 0                                                                                                                                           |                                                         |  |       |  |                   |                                                                            |  |  |  |                  |                                                                                                                |  |  |  |  |        |  |  |  |  |                 |  |  |  |  |                |  |  |  |  |              |  |  |  |  |
|         | = 0                                                                                                                                           | ANGULAR TOL ± 3.0 °                                     |  |       |  |                   |                                                                            |  |  |  |                  | EC NO: 660404<br>DRWN: ATEEGULLA 2021/04/08<br>CHK'D: KBORUSZEWSKI 2021/04/08<br>APPR: KBORUSZEWSKI 2021/04/08 |  |  |  |  |        |  |  |  |  |                 |  |  |  |  |                |  |  |  |  |              |  |  |  |  |
|         | = 0                                                                                                                                           | 4 PLACES ±                                              |  |       |  |                   |                                                                            |  |  |  |                  |                                                                                                                |  |  |  |  |        |  |  |  |  |                 |  |  |  |  |                |  |  |  |  |              |  |  |  |  |
|         | = 0                                                                                                                                           | 3 PLACES ±                                              |  |       |  |                   |                                                                            |  |  |  |                  |                                                                                                                |  |  |  |  |        |  |  |  |  |                 |  |  |  |  |                |  |  |  |  |              |  |  |  |  |
|         | = 0                                                                                                                                           | 2 PLACES ± 0.1                                          |  |       |  |                   | INITIAL REVISION:<br>DRWN: APROFFITT 2015/01/29<br>APPR: VKOSHY 2015/05/21 |  |  |  |                  |                                                                                                                |  |  |  |  |        |  |  |  |  |                 |  |  |  |  |                |  |  |  |  |              |  |  |  |  |
|         | = 0                                                                                                                                           | 1 PLACE ± 0.2                                           |  |       |  |                   |                                                                            |  |  |  |                  |                                                                                                                |  |  |  |  |        |  |  |  |  |                 |  |  |  |  |                |  |  |  |  |              |  |  |  |  |
|         | = 0                                                                                                                                           | 0 PLACES ±                                              |  |       |  |                   |                                                                            |  |  |  |                  |                                                                                                                |  |  |  |  |        |  |  |  |  |                 |  |  |  |  |                |  |  |  |  |              |  |  |  |  |
|         | = 0                                                                                                                                           | DRAFT WHERE APPLICABLE<br>MUST REMAIN WITHIN DIMENSIONS |  |       |  |                   | THIRD ANGLE PROJECTION                                                     |  |  |  |                  | DRAWING                                                                                                        |  |  |  |  | SERIES |  |  |  |  | MATERIAL NUMBER |  |  |  |  | CUSTOMER       |  |  |  |  | SHEET NUMBER |  |  |  |  |
|         | = 0                                                                                                                                           |                                                         |  |       |  |                   |                                                                            |  |  |  |                  | A1-SIZE                                                                                                        |  |  |  |  | 160076 |  |  |  |  | SEE NOTE 2a.    |  |  |  |  | GENERAL MARKET |  |  |  |  | 1 OF 7       |  |  |  |  |

| DOCUMENT STATUS | P1 | RELEASE DATE | 2021/04/08 | 19:48:42 |
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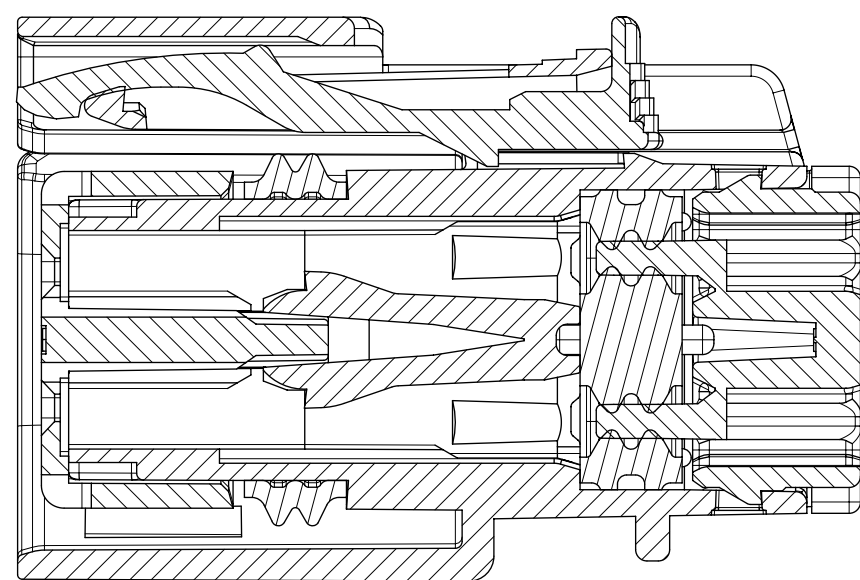


SHEET DESCRIPTION  
RECEPTACLE CONNECTOR ASSEMBLY



PRIMARY LOCK REINFORCEMENT (PLR) SHOWN  
IN PRE-STAGED POSITION

SECTION Z-Z

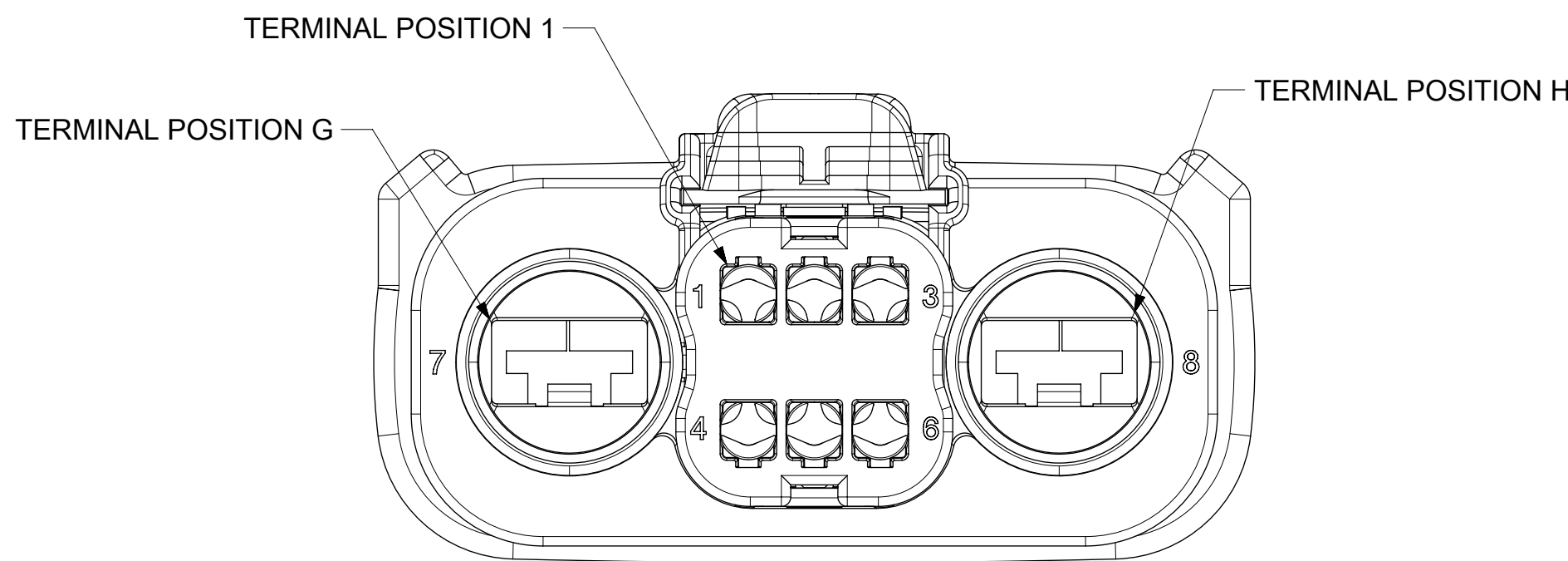
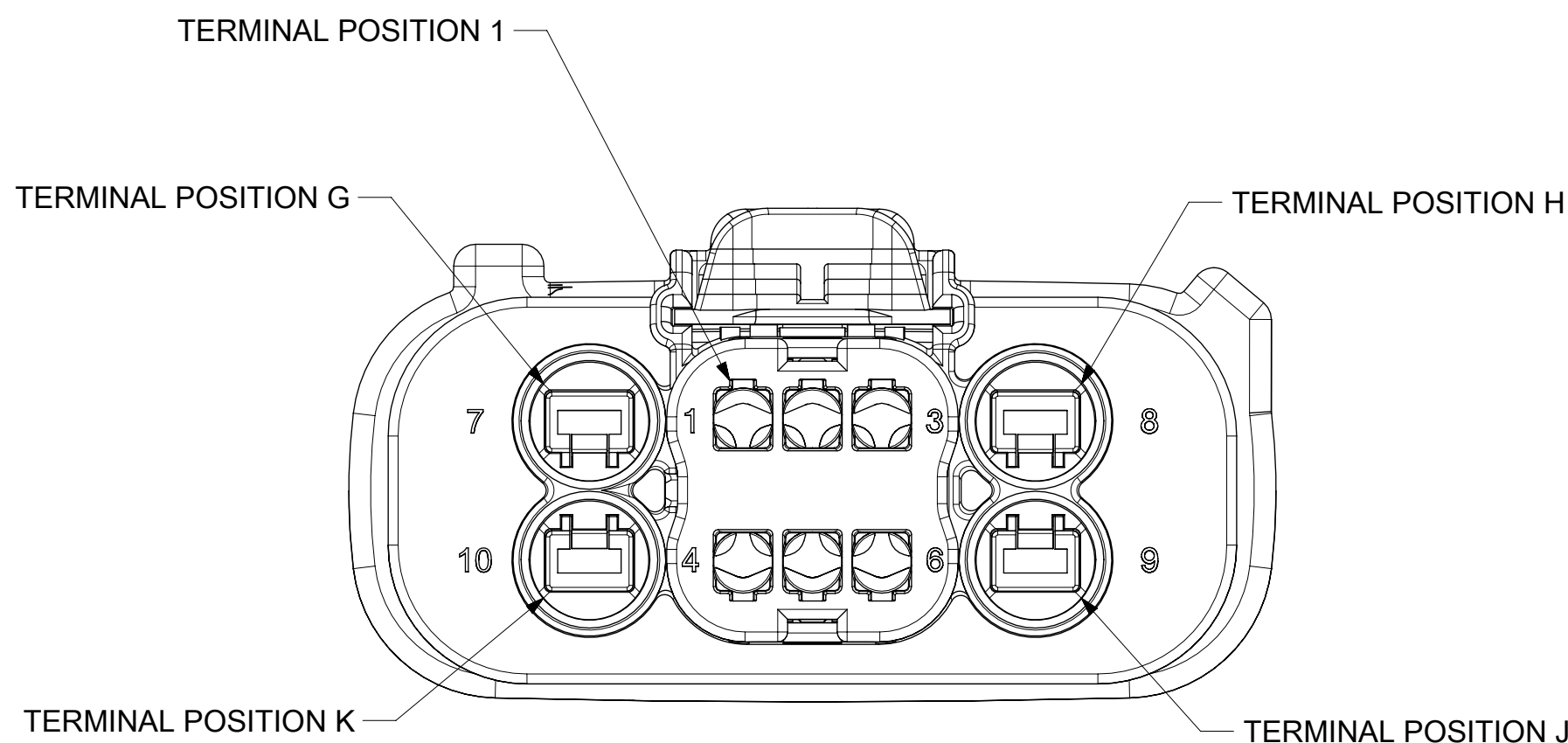
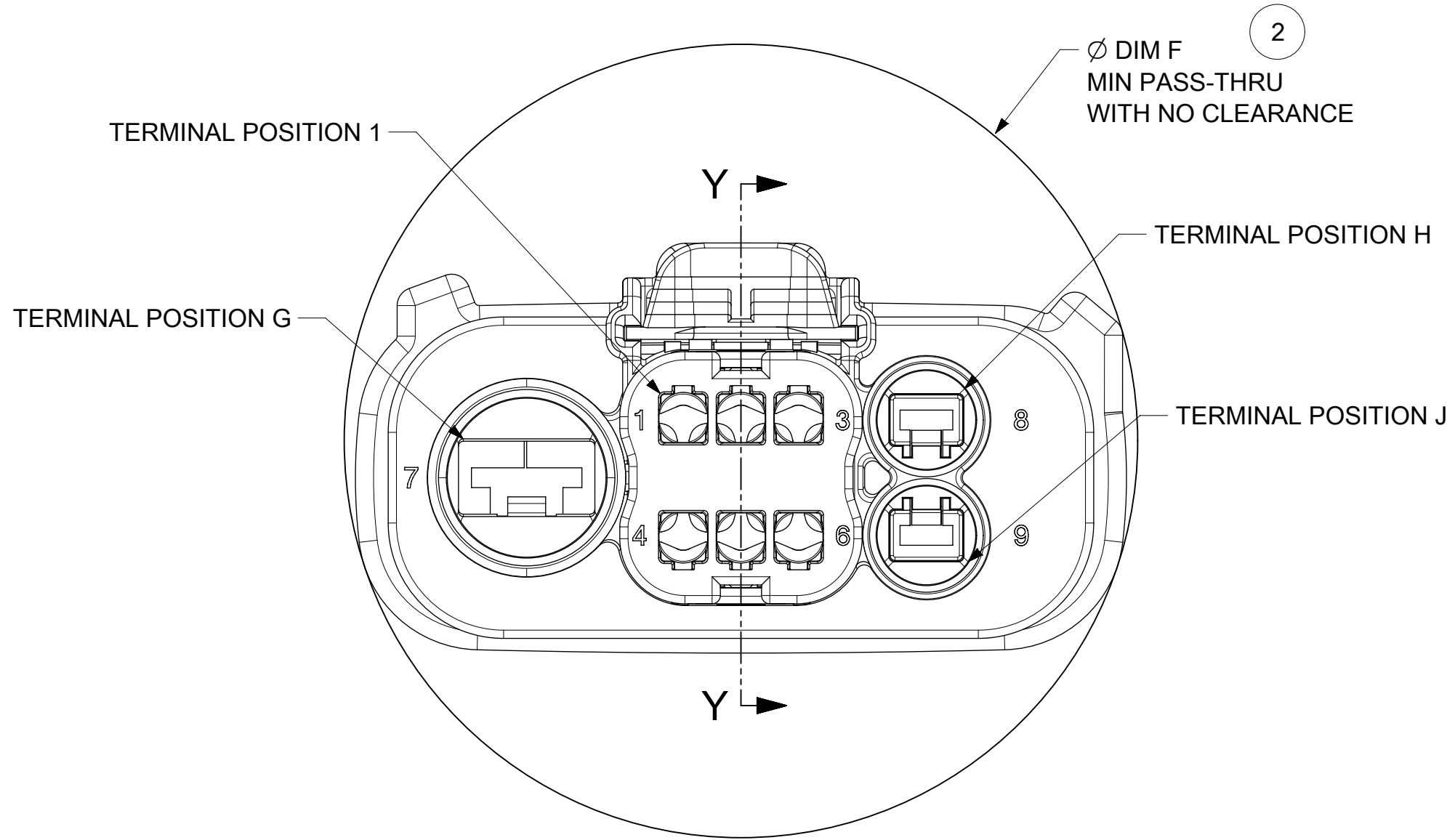


PRIMARY LOCK REINFORCEMENT (PLR) SHOWN  
IN FINAL-STAGED POSITION

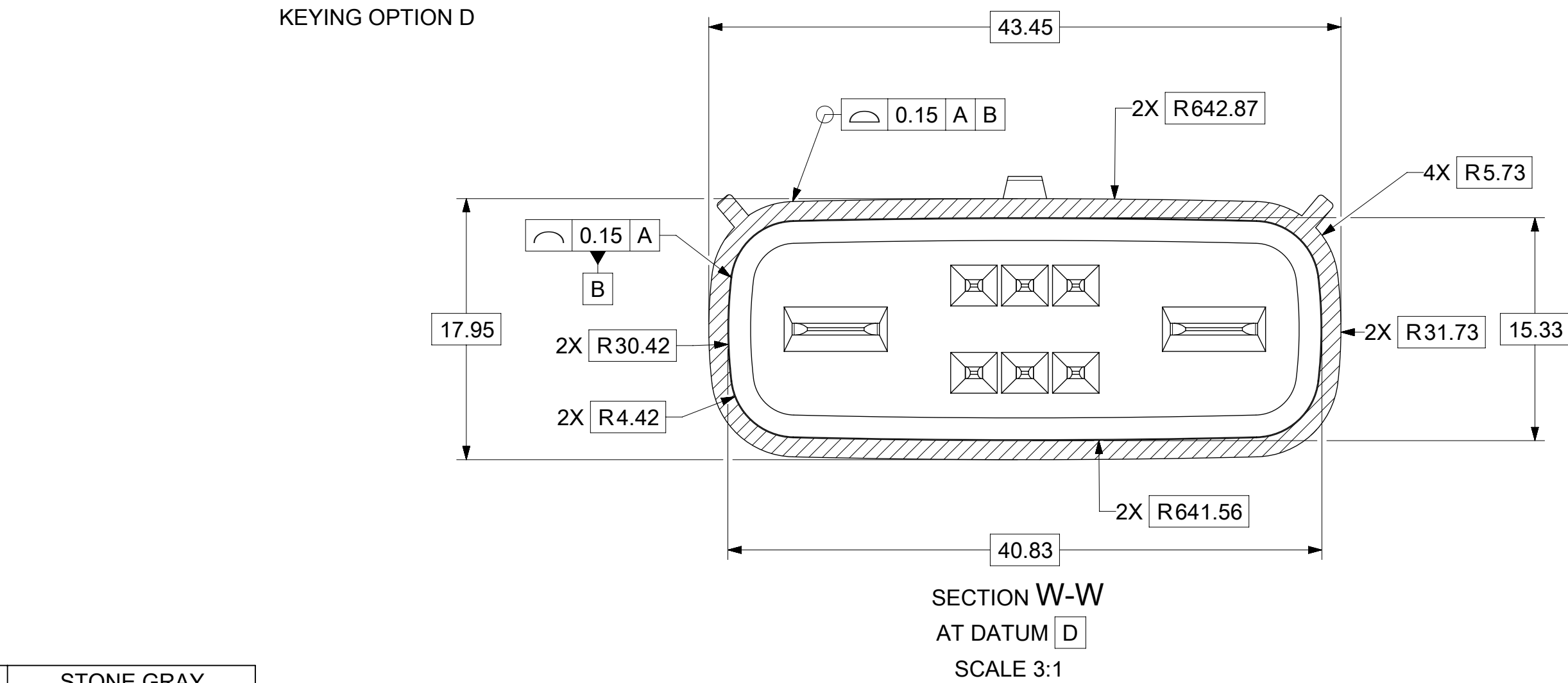
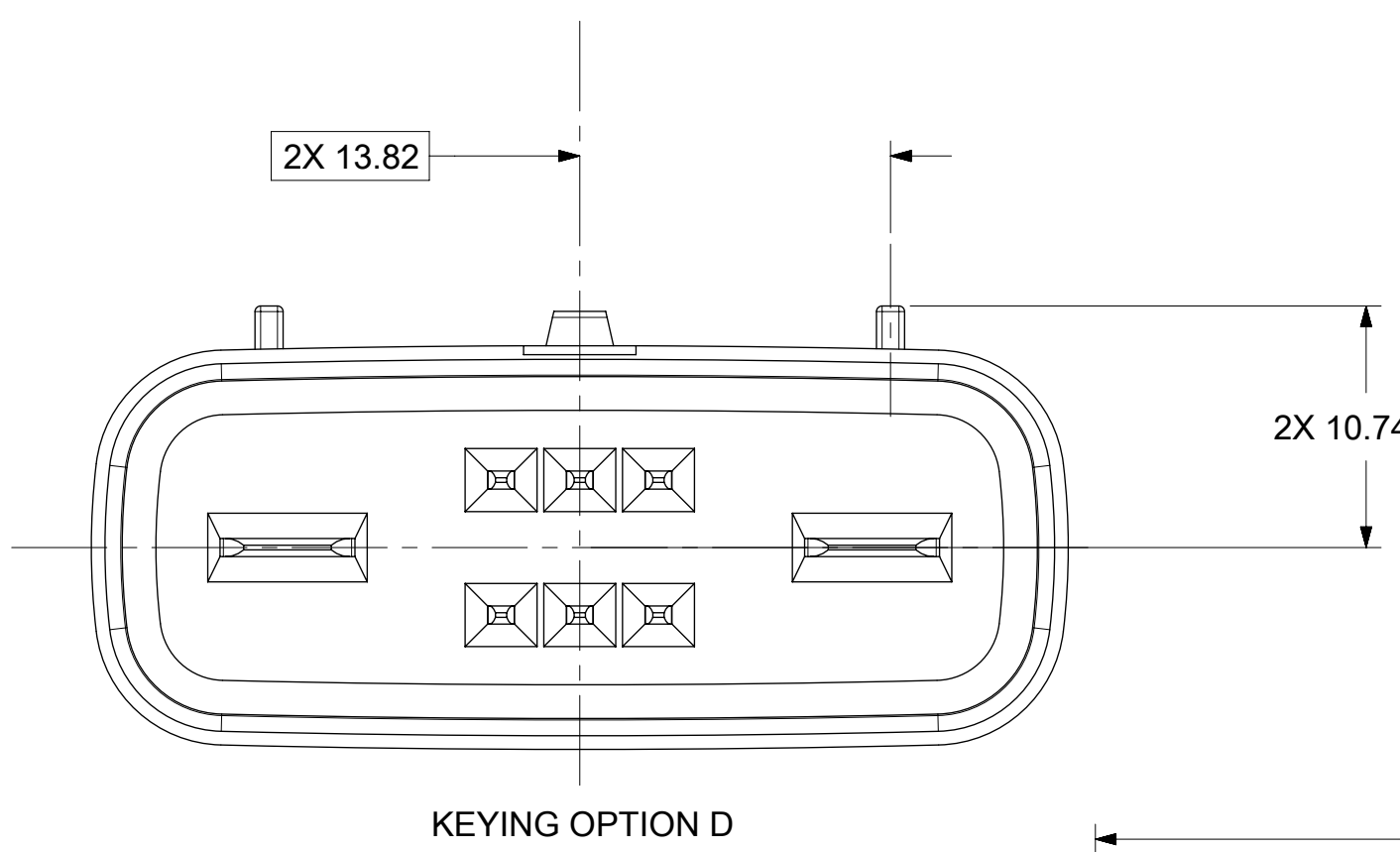
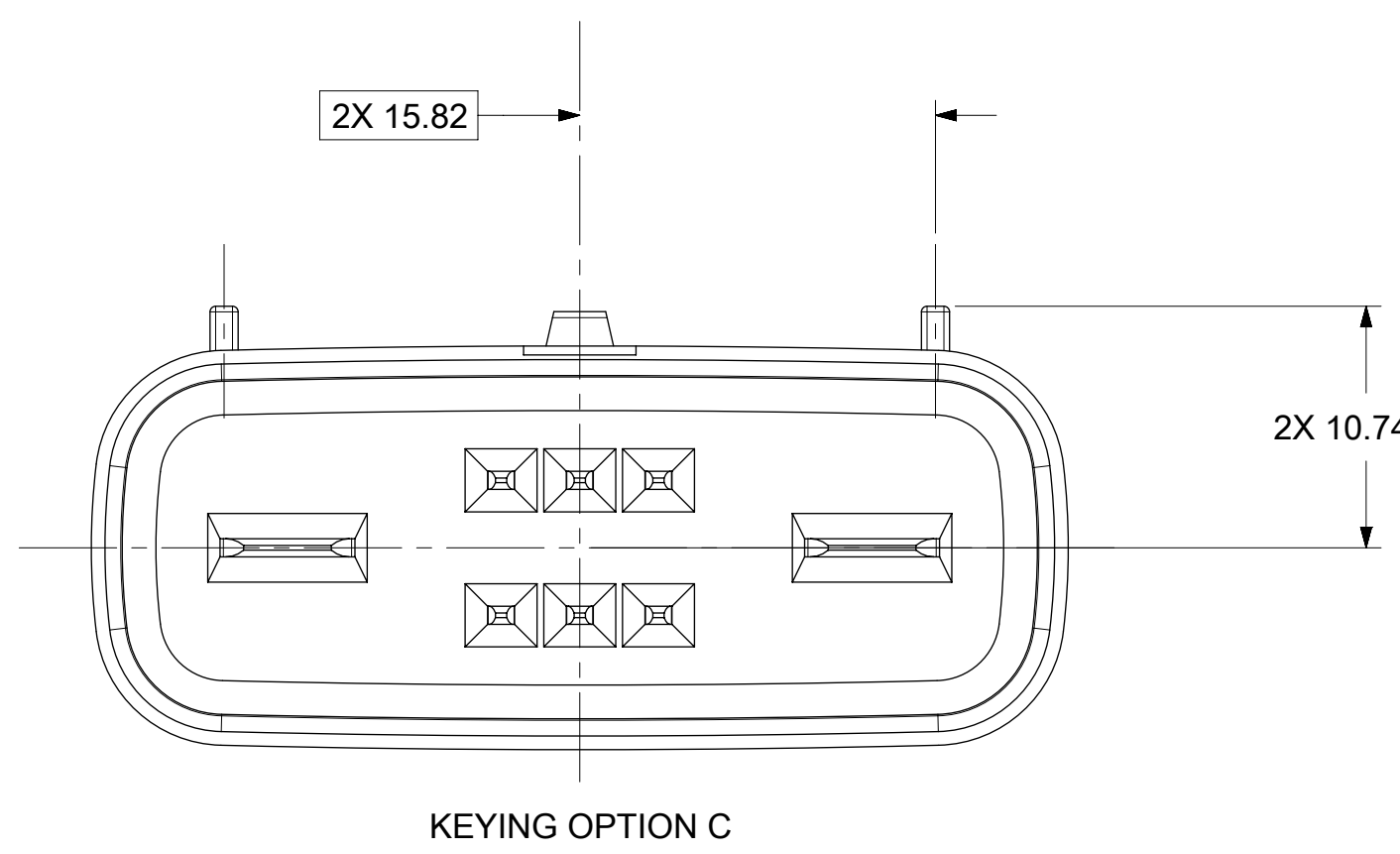
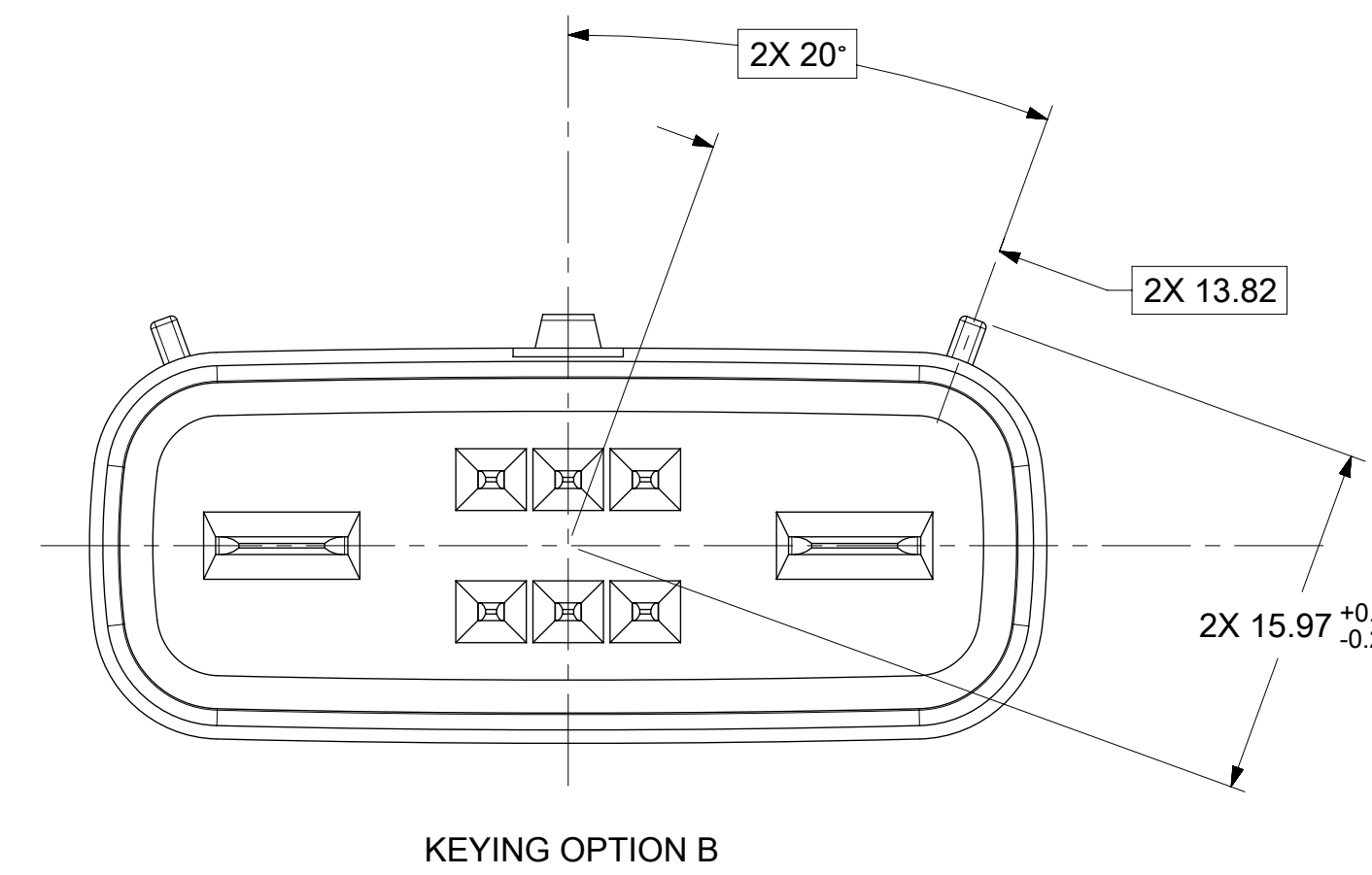
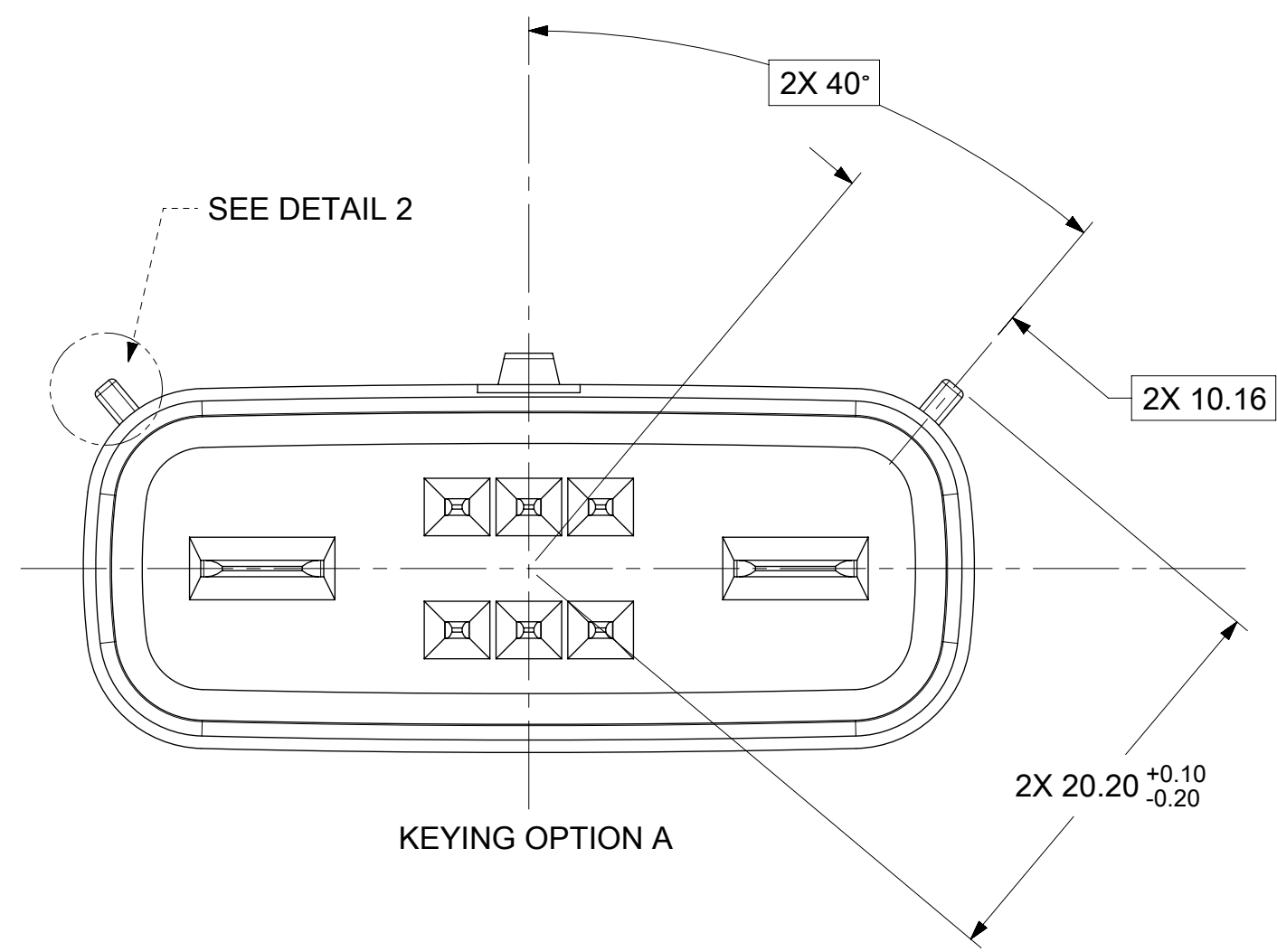
SECTION Y-Y

CHARTED DIMENSIONS

| DESCRIPTION                            | DIMENSIONS |      |       |       |       |       |   |   |     |     |
|----------------------------------------|------------|------|-------|-------|-------|-------|---|---|-----|-----|
|                                        | A          | B    | C     | D     | E     | F     | G | H | J   | K   |
| 10 WAY HYBRID (1.5/2.8)                | 25.56      | 3.50 | 47.48 | 11.25 | N/A   | 50.00 | 7 | 8 | 9   | 10  |
| 8 WAY HYBRID (1.5/6.3)                 | 25.56      | 3.50 | 47.48 | N/A   | 13.00 | 50.00 | 7 | 8 | N/A | N/A |
| 9 WAY HYBRID (1.5/2.8/6.3)             | 25.56      | 3.50 | 47.48 | 11.25 | 13.00 | 50.00 | 7 | 8 | 9   | N/A |
| 10 WAY HYBRID (1.5/2.8) W/ CLIPSLOT    | 28.38      | 3.50 | 47.48 | 11.25 | N/A   | 50.00 | 7 | 8 | 9   | 10  |
| 8 WAY HYBRID (1.5/6.3) W/ CLIPSLOT     | 28.38      | 3.50 | 47.48 | N/A   | 13.00 | 50.00 | 7 | 8 | N/A | N/A |
| 9 WAY HYBRID (1.5/2.8/6.3) W/ CLIPSLOT | 28.38      | 3.50 | 47.48 | 11.25 | 13.00 | 50.00 | 7 | 8 | 9   | N/A |



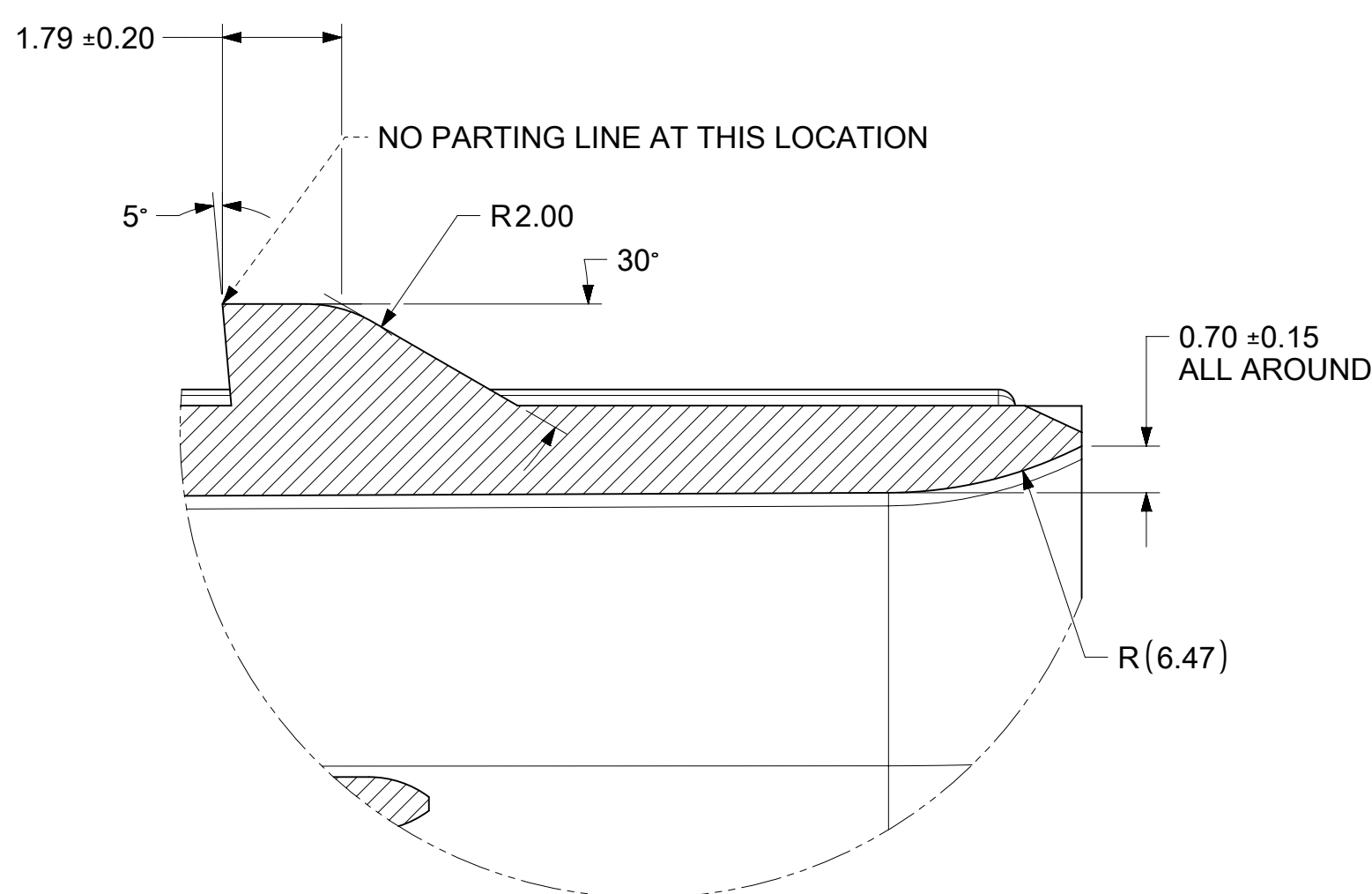
| SYMBOLS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION |  |       |  |                                                                            |                                                                                                                |                        |                 |         |              |                                                                          |          |              |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|--|-------|--|----------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------|------------------------|-----------------|---------|--------------|--------------------------------------------------------------------------|----------|--------------|
| <div><div><div><div><div></div></div></div><div><div></div></div></div><div><div><div><div></div></div></div><div><div></div></div></div><div><div><div><div></div></div></div><div><div></div></div></div><div><div><div><div></div></div></div><div><div></div></div></div><div><div><div><div></div></div></div><div><div></div></div></div><div><div><div><div></div></div></div><div><div></div></div></div><div><div><div><div></div></div></div><div><div></div></div></div><div><div><div><div></div></div></div><div><div></div></div></div></div> | DIMENSION UNITS                                                                                                                               |  | SCALE |  | CURRENT REV DESC:                                                          |                                                                                                                |                        | molex           |         |              |                                                                          |          |              |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | mm                                                                                                                                            |  | 3:1   |  |                                                                            |                                                                                                                |                        |                 |         |              |                                                                          |          |              |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | GENERAL TOLERANCES (UNLESS SPECIFIED)                                                                                                         |  |       |  |                                                                            | EC NO: 660404<br>DRWN: ATEEGULLA 2021/04/08<br>CHK'D: KBORUSZEWSKI 2021/04/08<br>APPR: KBORUSZEWSKI 2021/04/08 |                        |                 |         |              | MX150 HYB RCPT DUAL ROW SEALED ASSY<br>DUAL ROW SEALED ASSEMBLY MAT SEAL |          |              |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | ANGULAR TOL ± 3.0 °                                                                                                                           |  |       |  |                                                                            |                                                                                                                |                        |                 |         |              |                                                                          |          |              |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 4 PLACES                                                                                                                                      |  | ±     |  | PRODUCT CUSTOMER DRAWING                                                   |                                                                                                                |                        |                 |         |              |                                                                          |          |              |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 3 PLACES                                                                                                                                      |  | ±     |  |                                                                            |                                                                                                                |                        |                 |         |              |                                                                          |          |              |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 2 PLACES                                                                                                                                      |  | ± 0.1 |  | INITIAL REVISION:<br>DRWN: APROFFITT 2015/01/29<br>APPR: VKOSHY 2015/05/21 |                                                                                                                |                        | DOCUMENT NUMBER |         | DOC TYPE     | DOC PART                                                                 | REVISION |              |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 1 PLACE                                                                                                                                       |  | ± 0.2 |  |                                                                            |                                                                                                                |                        | SD-160076-0001  |         | PSD          | 001                                                                      | A8       |              |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 0 PLACES                                                                                                                                      |  | ±     |  | DRAFT WHERE APPLICABLE<br>MUST REMAIN<br>WITHIN DIMENSIONS                 |                                                                                                                | THIRD ANGLE PROJECTION |                 | DRAWING | SERIES       | MATERIAL NUMBER                                                          | CUSTOMER | SHEET NUMBER |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                               |  |       |  |                                                                            |                                                                                                                | A1-SIZE                |                 | 160076  | SEE NOTE 2a. | GENERAL MARKET                                                           |          | 4 OF 7       |



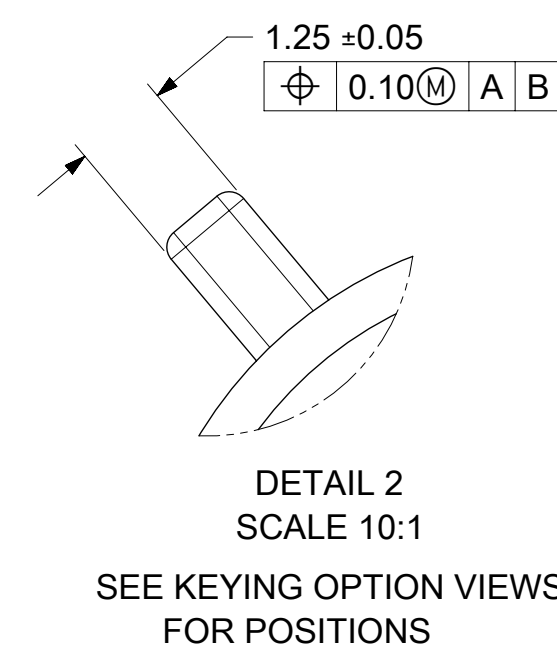
|        |                        |
|--------|------------------------|
| D      | STONE GRAY             |
| C      | DARK GRAY              |
| B      | LIGHT GRAY             |
| A      | BLACK                  |
| OPTION | MATING CONNECTOR COLOR |

|                 |    |              |            |          |
|-----------------|----|--------------|------------|----------|
| DOCUMENT STATUS | P1 | RELEASE DATE | 2021/03/03 | 23:36:12 |
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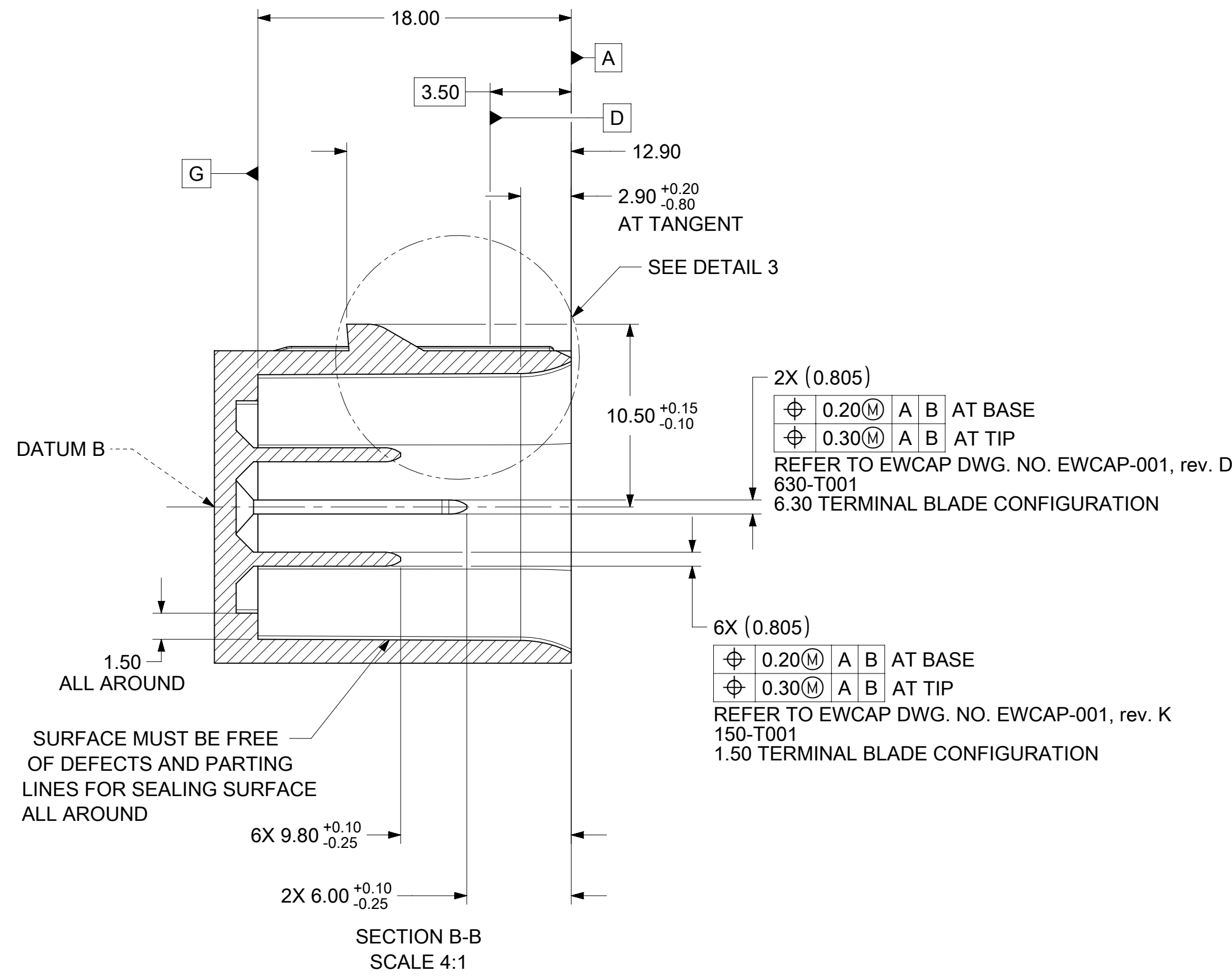
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|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|---|---|---|---|---|---|---|---|---|
| 24 | 23 | 22 | 21 | 20 | 19 | 18 | 17 | 16 | 15 | 14 | 13 | 12 | 11 | 10 | 9 | 8 | 7 | 6 | 5 | 4 | 3 | 2 | 1 |
|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|---|---|---|---|---|---|---|---|---|



DETAIL 3  
SCALE 10:1



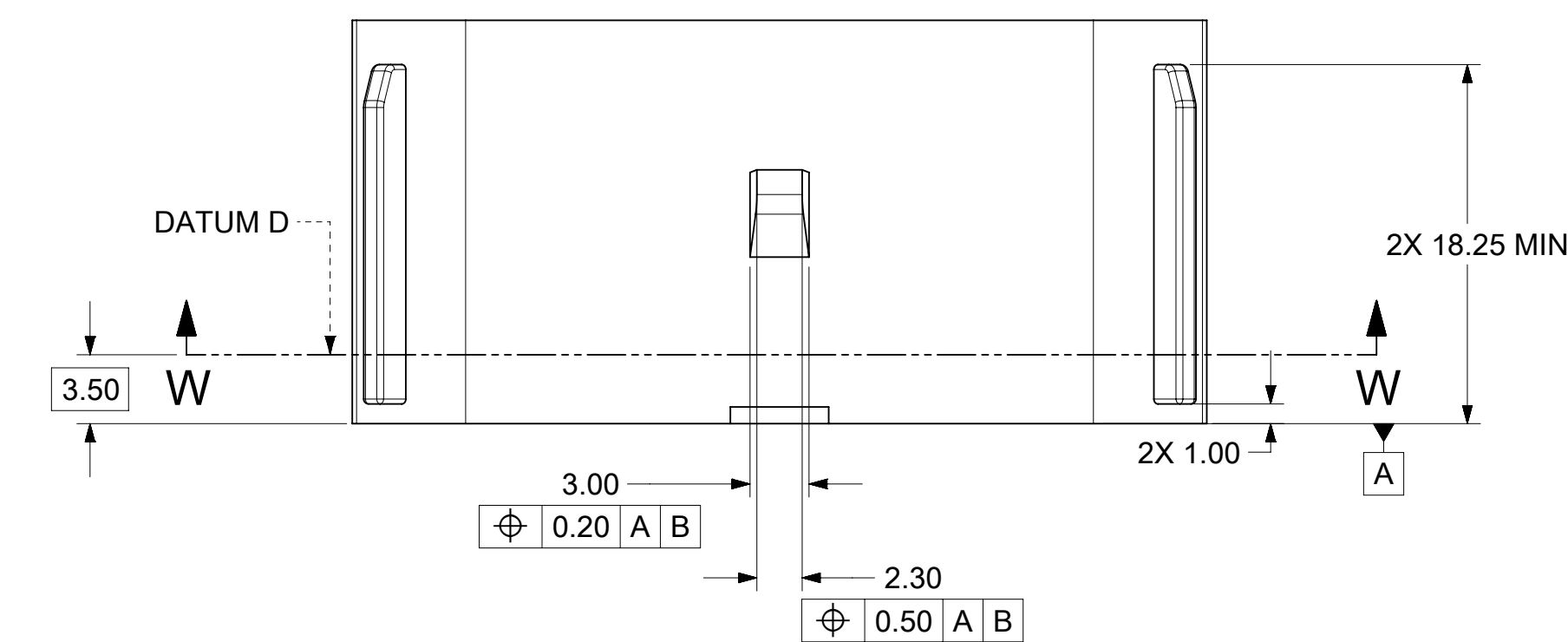
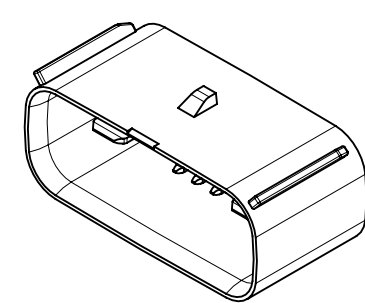
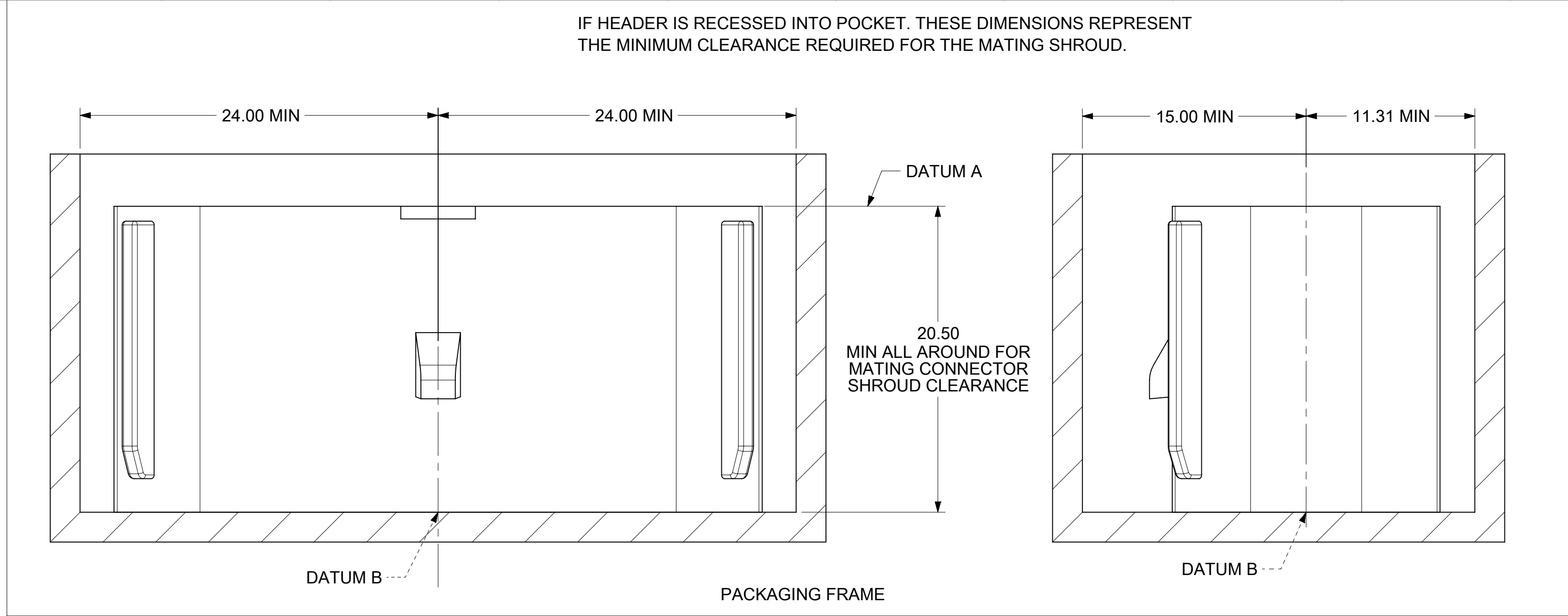
DETAIL 2  
SCALE 10:1



NOTES: UNLESS OTHERWISE SPECIFIED

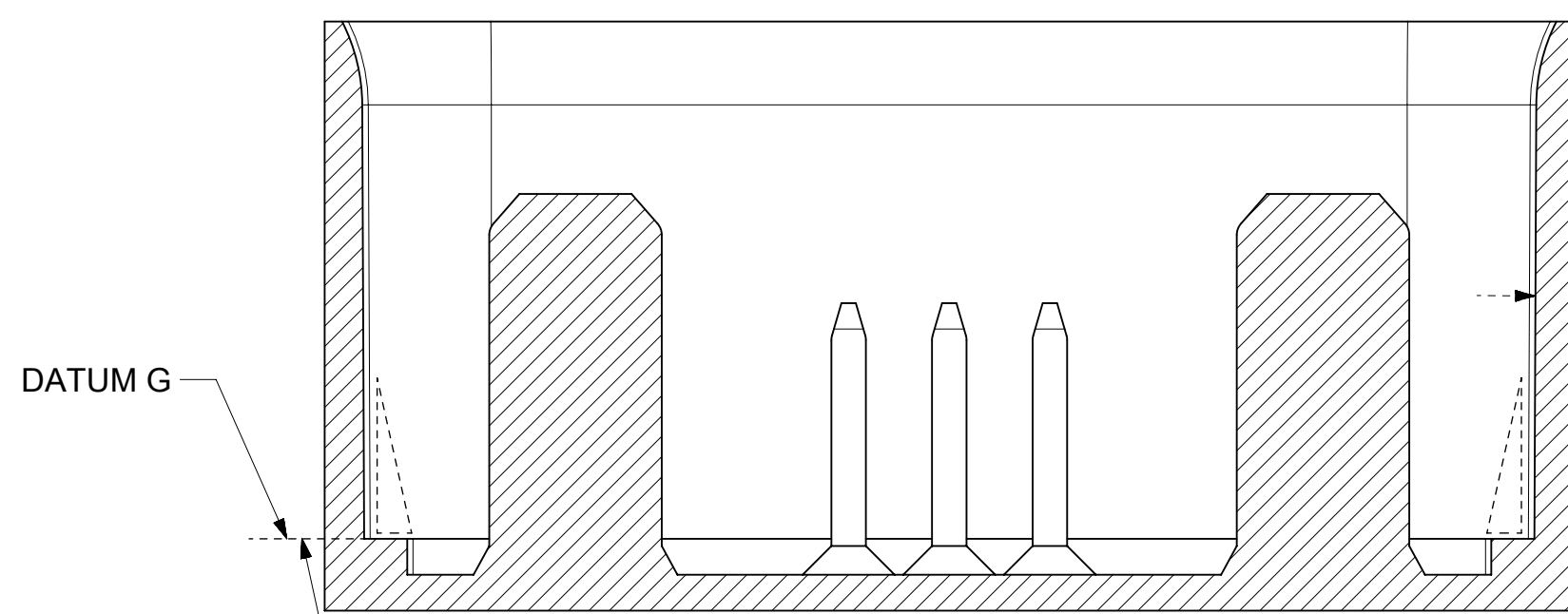
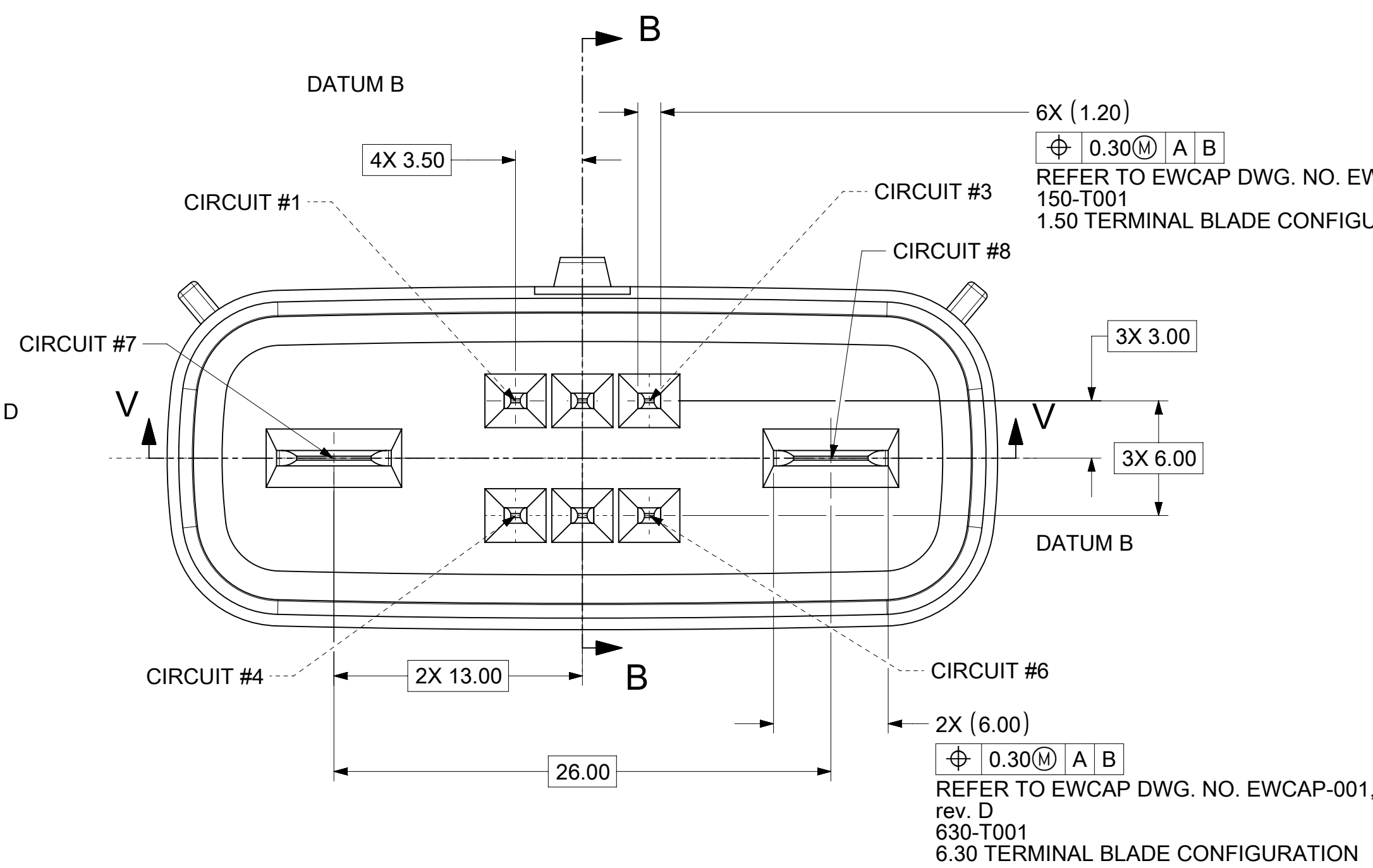
1. ALL DIMENSIONS SHOWN IN MILLIMETERS.
2. DIMENSIONING AND TOLERANCING PER ASME Y14.5M-1994
3. 0.25 RADII ON ALL CORNERS SHOWN SHARP.
4. UNSPECIFIED RADII: 0.25 EXCEPT AS NOTED.
5. STANDARD COLORS FOR POLARIZATION (SEE CHART). DEVIATION REQUIRES APPROVAL OF AUTHORIZED PERSON.
6. REFER TO "SAE/USCAR 12 CONNECTOR GUIDELINES" FOR ADDITIONAL REQUIREMENTS.
7. EXCEPT WHERE NOTED, DRAFT ON OUTSIDE SURFACES IS PERMISSIBLE WITHIN TOLERANCE.
8. SYMBOL INDICATES DRAFT DIRECTION.

9. FOR TERMINAL MATERIAL, DIMENSIONAL, AND COATING REQUIREMENTS AND ANY BLADE TERMINAL DESIGN INFORMATION NOT SHOWN ON THIS DRAWING SEE EWCAP DRW. NO. EWCAP-001, rev. K.  
1.5 PLATING:  
UNDERPLATING: ELECTRO-DEPOSITED NICKEL SULFAMATE 0.76-2.00 MICROMETERS  
TOP LAYER: ELECTRO-DEPOSITED MATTE TIN 1.00-2.50 MICROMETERS  
6.3 PLATING:  
UNDERPLATING: ELECTRO-DEPOSITED NICKEL 1.25-2.25 MICROMETERS  
TOP LAYER: ELECTRO-DEPOSITED MATTE TIN 1.00-2.50 MICROMETERS
10. A FULL SHROUD ON THE MATING CONNECTOR IS REQUIRED TO INSURE THAT THE CONNECTOR-HEADER POLARIZATION FEATURES (OPTIONS A THRU D) WILL FUNCTION. THE FULL SHROUD ALSO PREVENTS SCOOP DAMAGE TO THE HEADER PINS. REFER TO "SAE/USCAR-12 CONNECTOR DESIGN GUIDE LINES" FOR ADDITIONAL INFORMATION.
11. REFER TO USCAR/EWCAP PART LIST AS FOUND ON WEBSITE <http://www.uscarteams.org>
12. THIS IS A 100% CAD GENERATED PART. THE CAD MATHEMATICAL DATA IS THE MASTER FOR THIS PART. FOR DIMENSIONAL OR ANY INFORMATION NOT SHOWN ON THIS DRAWING, ANALYZE THE CAD MODEL.



NOTICE

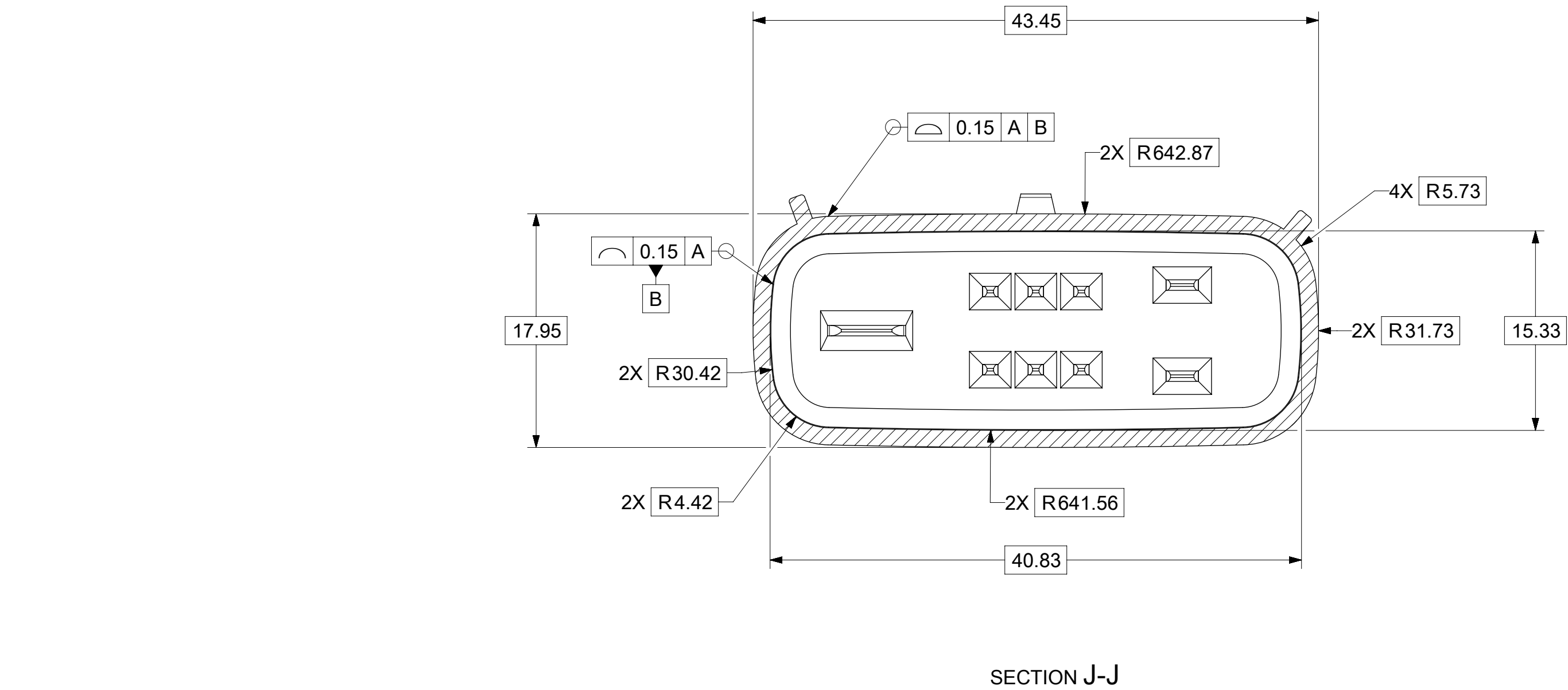
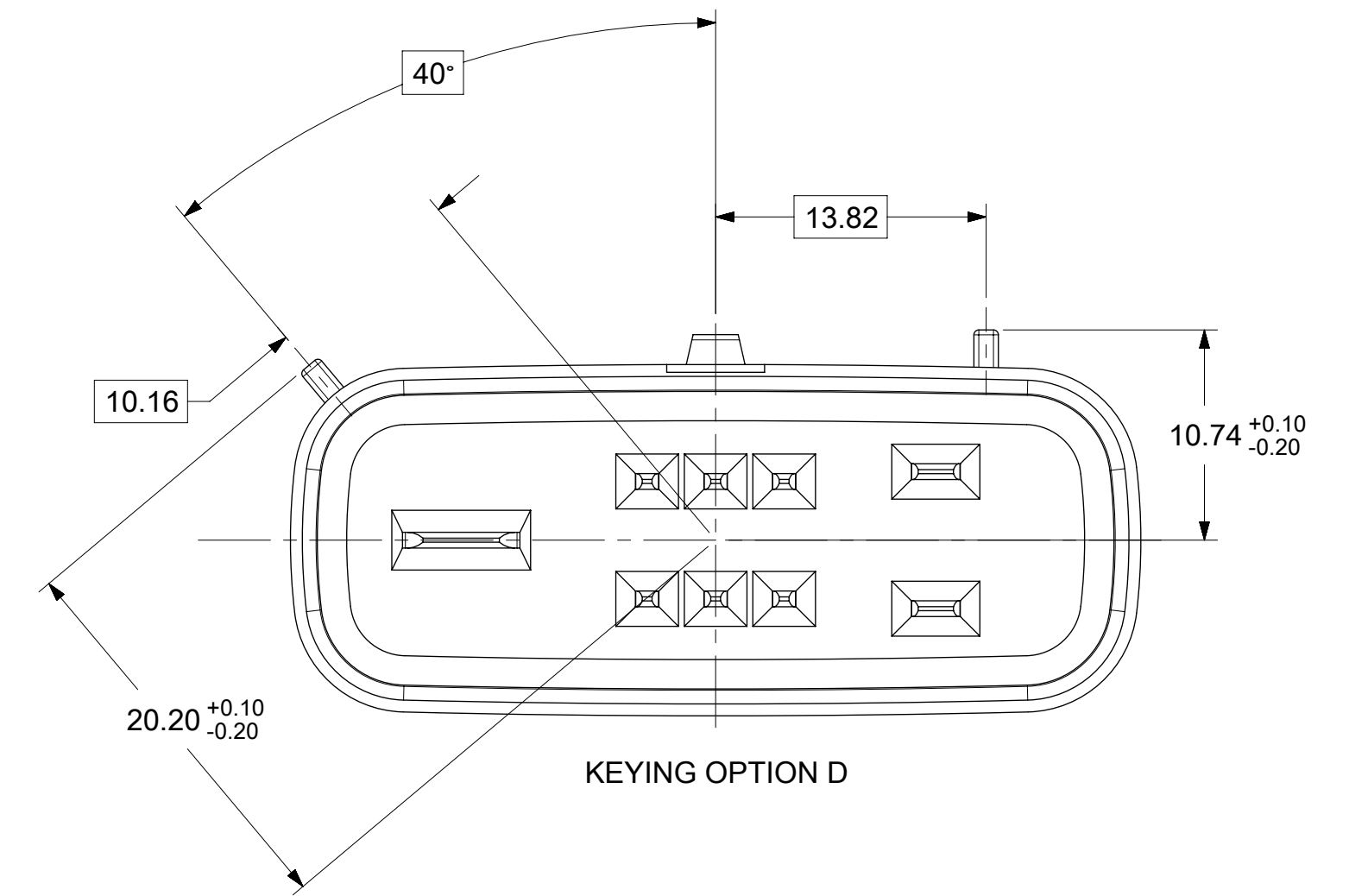
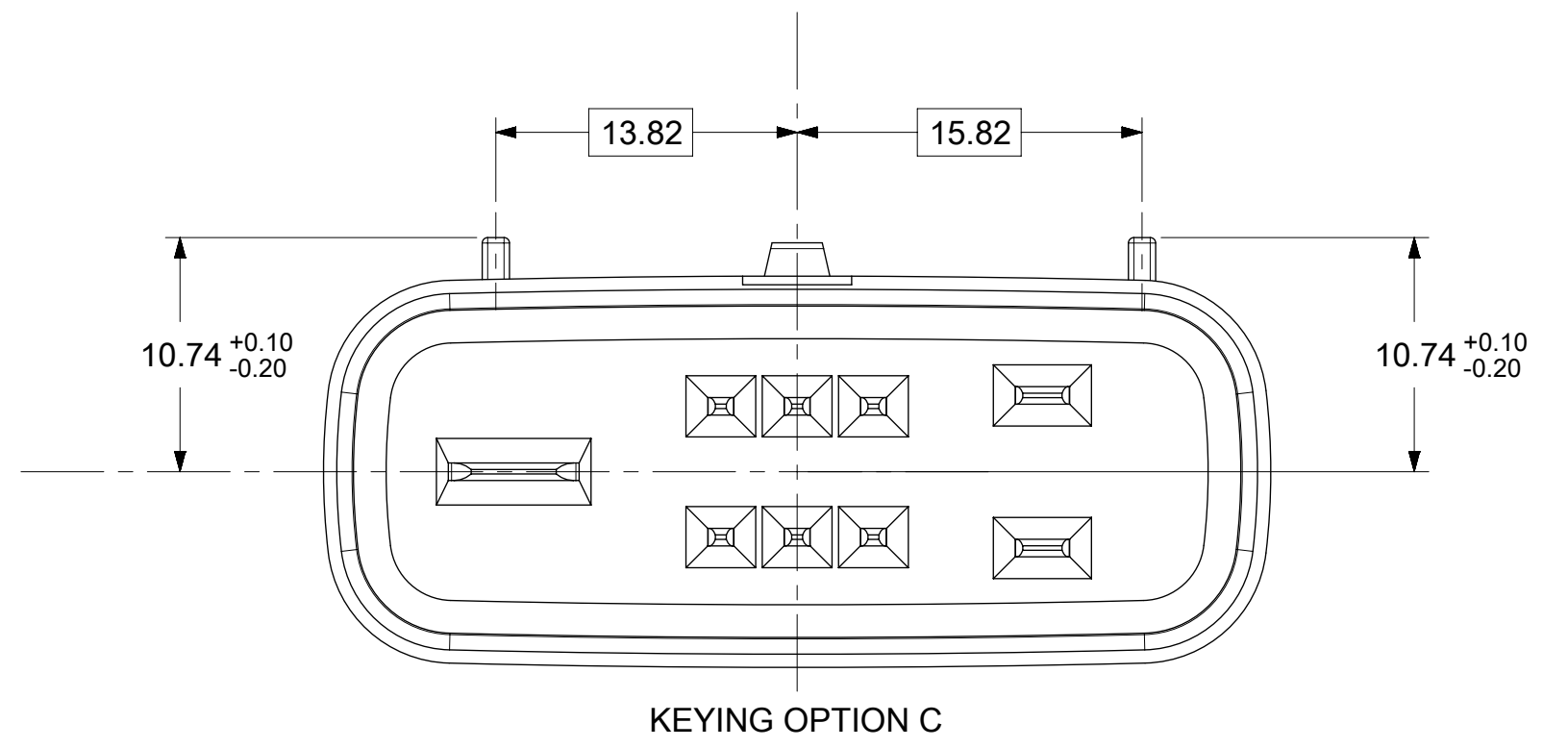
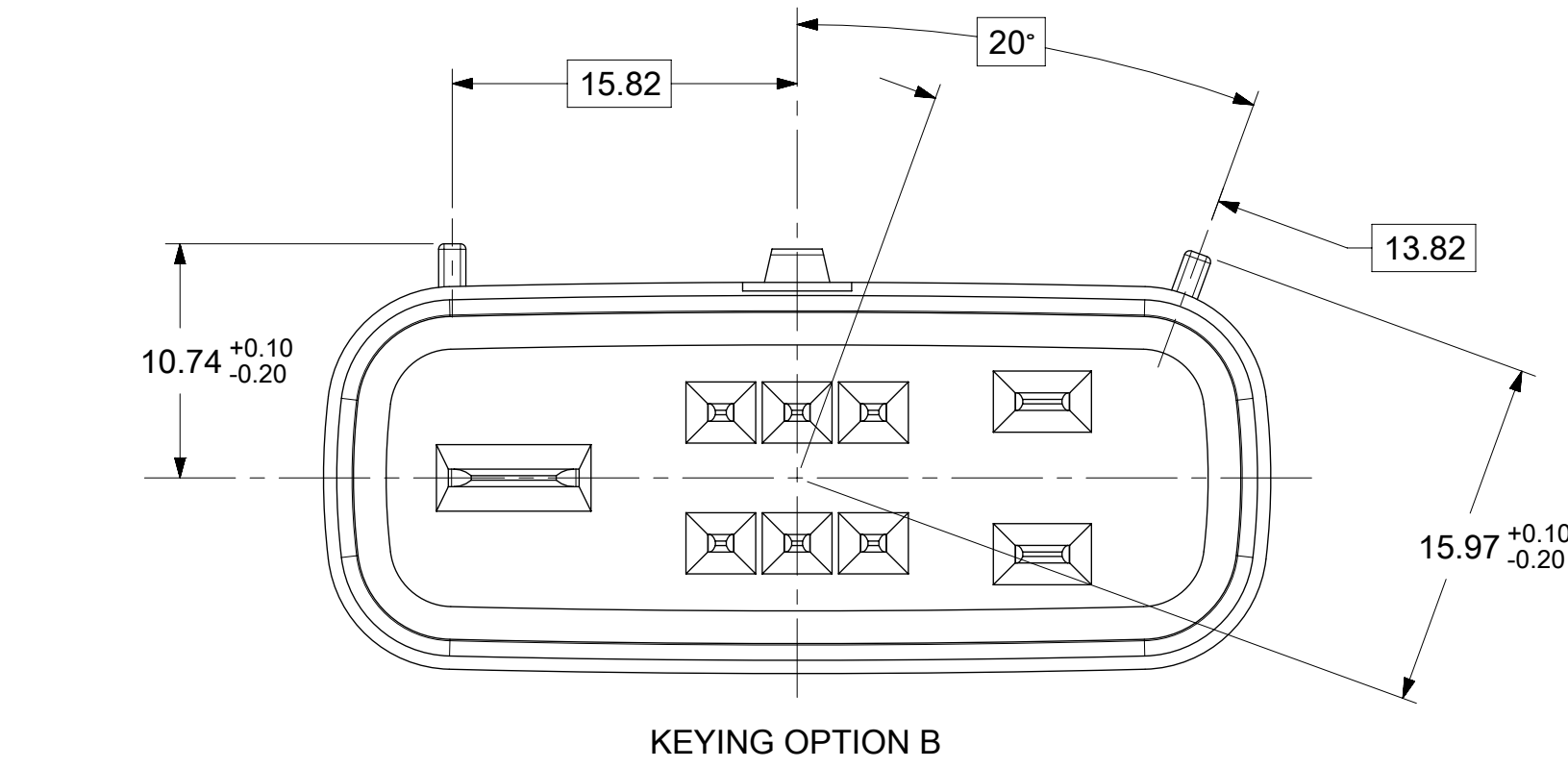
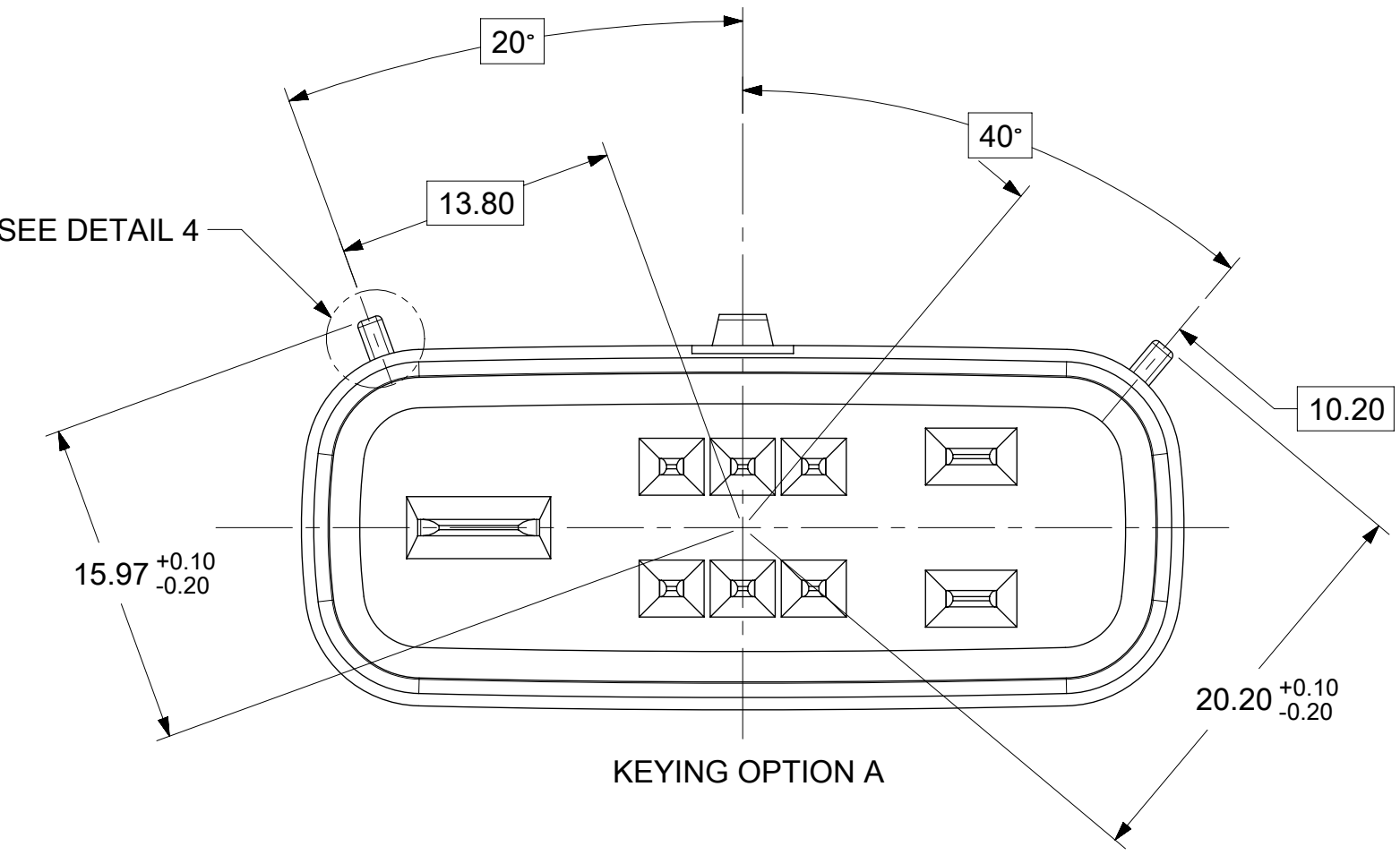
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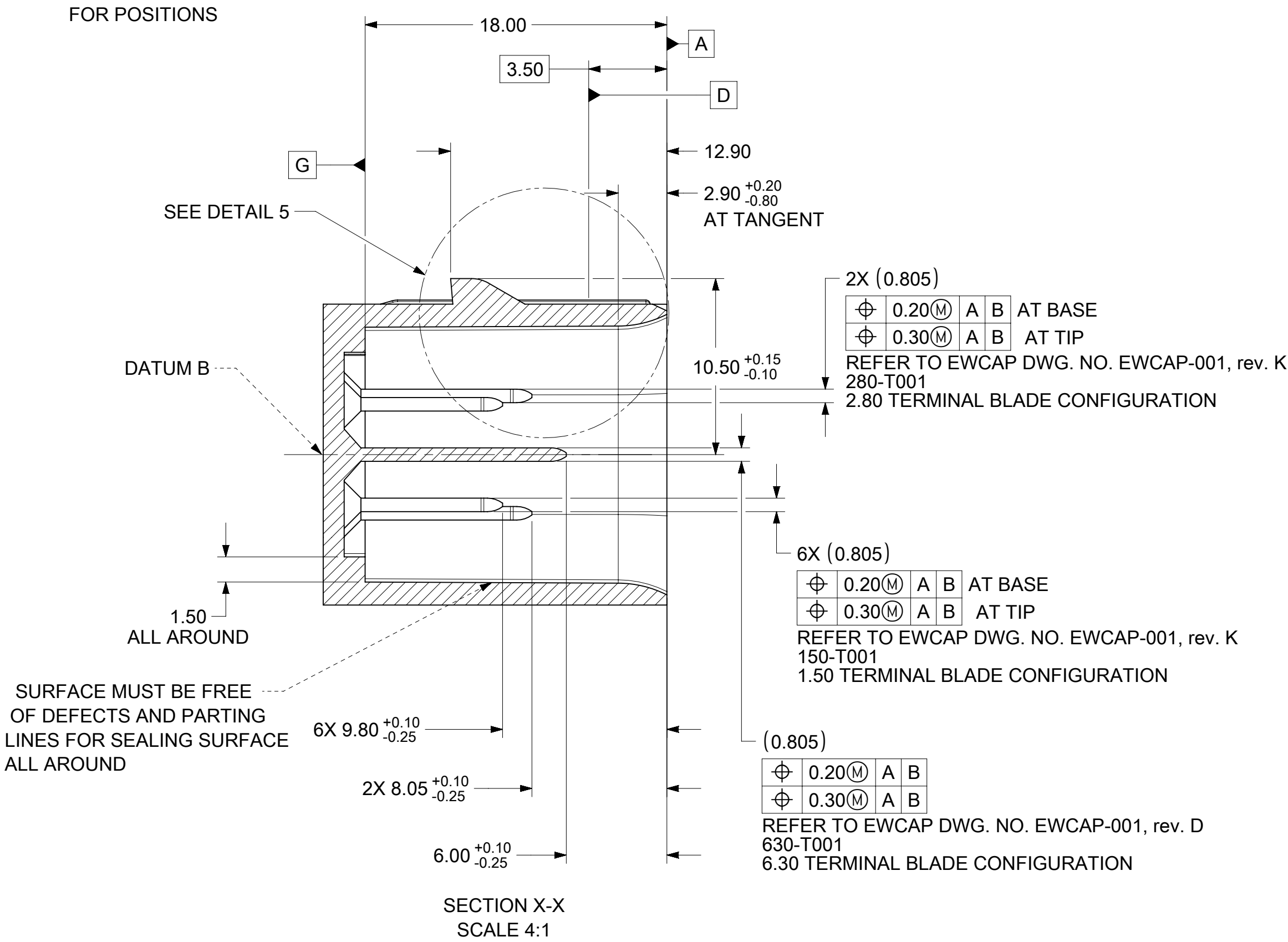
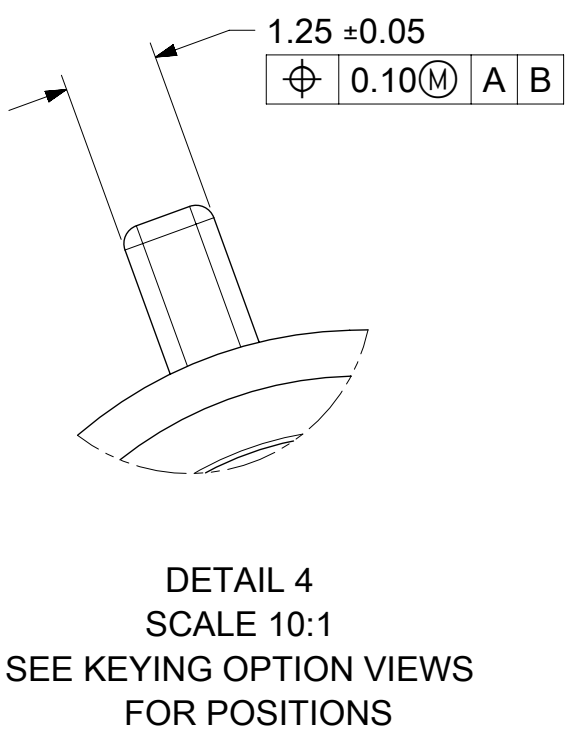
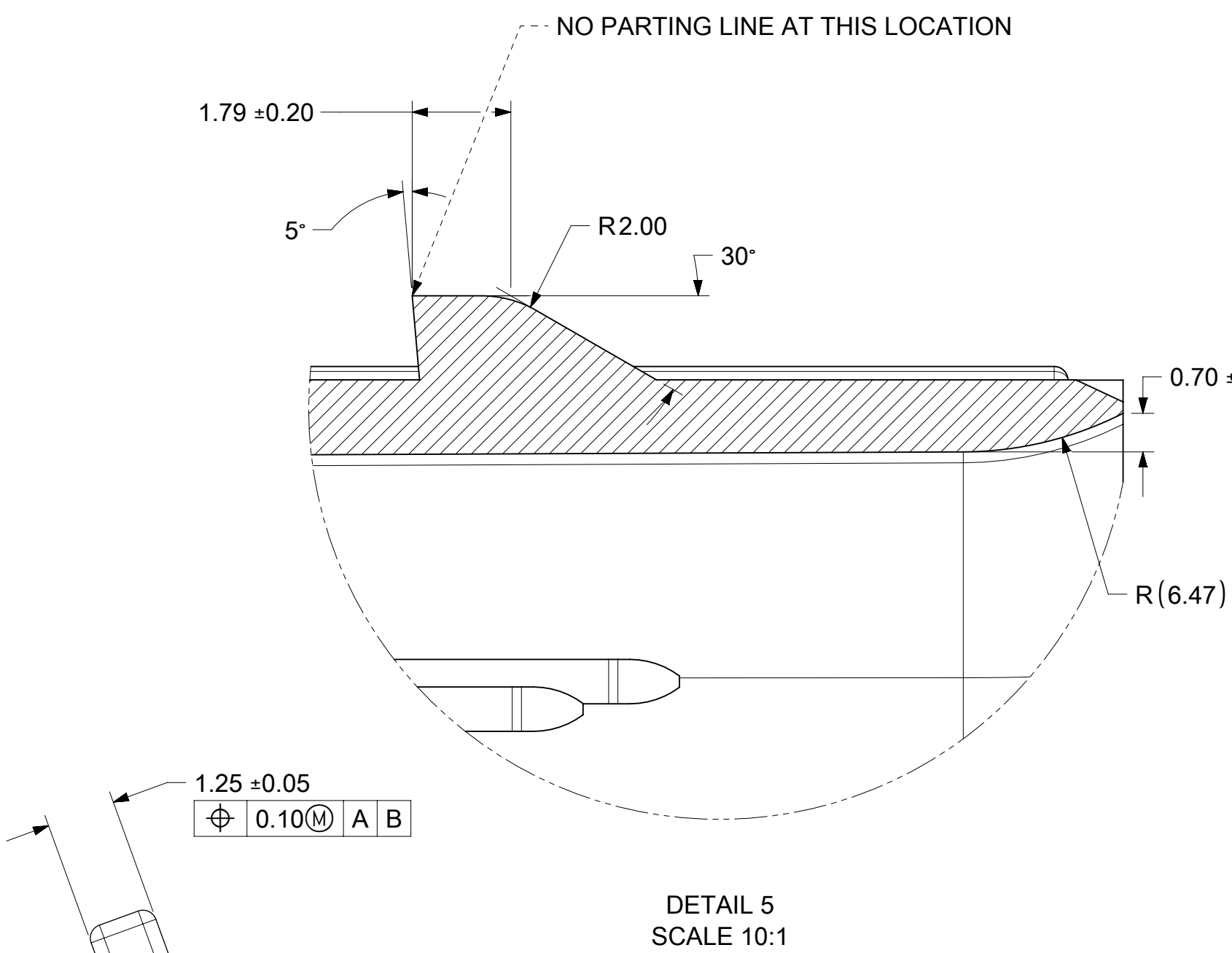
SECTION V-V  
SCALE 4:1

CONSTRUCTION BELOW THIS SURFACE IS NOT CONTROLLED BY EWCAP. NO PLASTIC FEATURES MAY EXTEND ABOVE THIS SURFACE

| SYMBOLS |  | 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: |                                |  |         | <div>molex</div> |                                                                          |  |                 |  |                 |  |  |  |
|         |  | mm                                                                                                                                            |  | 2:1   |                                                      |                   |                                |  |         |                  |                                                                          |  |                 |  |                 |  |  |  |
|         |  | GENERAL TOLERANCES (UNLESS SPECIFIED)                                                                                                         |  |       |                                                      |                   |                                |  |         |                  |                                                                          |  |                 |  |                 |  |  |  |
|         |  | ANGULAR TOL ± 3.0°                                                                                                                            |  |       |                                                      |                   |                                |  |         |                  |                                                                          |  |                 |  |                 |  |  |  |
|         |  | = 0                                                                                                                                           |  |       |                                                      |                   | EC NO: 660404                  |  |         |                  | MX150 HYB RCPT DUAL ROW SEALED ASSY<br>DUAL ROW SEALED ASSEMBLY MAT SEAL |  |                 |  |                 |  |  |  |
|         |  | = 0                                                                                                                                           |  |       | 4 PLACES ±                                           |                   | DRWN: ATEEGULLA 2021/04/08     |  |         |                  |                                                                          |  |                 |  |                 |  |  |  |
|         |  | = 0                                                                                                                                           |  |       | 3 PLACES ±                                           |                   | CHK'D: KBORUSZEWSKI 2021/04/08 |  |         |                  |                                                                          |  |                 |  |                 |  |  |  |
|         |  | = 0                                                                                                                                           |  |       | ANGULAR TOL ± 3.0°                                   |                   | APPR: KBORUSZEWSKI 2021/04/08  |  |         |                  | PRODUCT CUSTOMER DRAWING                                                 |  |                 |  |                 |  |  |  |
|         |  | = 0                                                                                                                                           |  |       | 4 PLACES ±                                           |                   | INITIAL REVISION:              |  |         |                  |                                                                          |  |                 |  | DOCUMENT NUMBER |  |  |  |
|         |  | = 0                                                                                                                                           |  |       | 3 PLACES ±                                           |                   | DRWN: APROFFITT 2015/01/29     |  |         |                  |                                                                          |  |                 |  | DOC TYPE        |  |  |  |
|         |  | = 0                                                                                                                                           |  |       | 2 PLACES ± 0.1                                       |                   | APPR: VKOSHY 2015/05/21        |  |         |                  | DOC PART                                                                 |  |                 |  |                 |  |  |  |
|         |  | = 0                                                                                                                                           |  |       | 1 PLACE ± 0.2                                        |                   | INITIAL REVISION:              |  |         |                  | REVISION                                                                 |  |                 |  |                 |  |  |  |
|         |  | = 0                                                                                                                                           |  |       | 0 PLACES ±                                           |                   | DRWN: APROFFITT 2015/01/29     |  |         |                  | SD-160076-0001                                                           |  |                 |  |                 |  |  |  |
|         |  | = 0                                                                                                                                           |  |       | 0 PLACES ±                                           |                   | APPR: VKOSHY 2015/05/21        |  |         |                  | PSD                                                                      |  |                 |  |                 |  |  |  |
|         |  | = 0                                                                                                                                           |  |       | DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS |                   | THIRD ANGLE PROJECTION         |  | DRAWING |                  | SERIES                                                                   |  | MATERIAL NUMBER |  |                 |  |  |  |
|         |  | = 0                                                                                                                                           |  |       |                                                      |                   |                                |  | E-SIZE  |                  | 160076                                                                   |  | SEE NOTE 2a.    |  |                 |  |  |  |
|         |  | = 0                                                                                                                                           |  |       |                                                      |                   |                                |  |         |                  |                                                                          |  | CUSTOMER        |  |                 |  |  |  |
|         |  | = 0                                                                                                                                           |  |       |                                                      |                   |                                |  |         |                  |                                                                          |  | GENERAL MARKET  |  |                 |  |  |  |
|         |  | = 0                                                                                                                                           |  |       |                                                      |                   |                                |  |         |                  |                                                                          |  | SHEET NUMBER    |  |                 |  |  |  |
|         |  | = 0                                                                                                                                           |  |       |                                                      |                   |                                |  |         |                  |                                                                          |  | 5 OF 7          |  |                 |  |  |  |

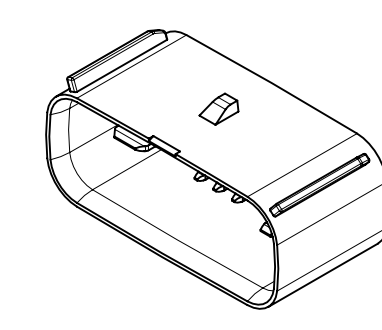
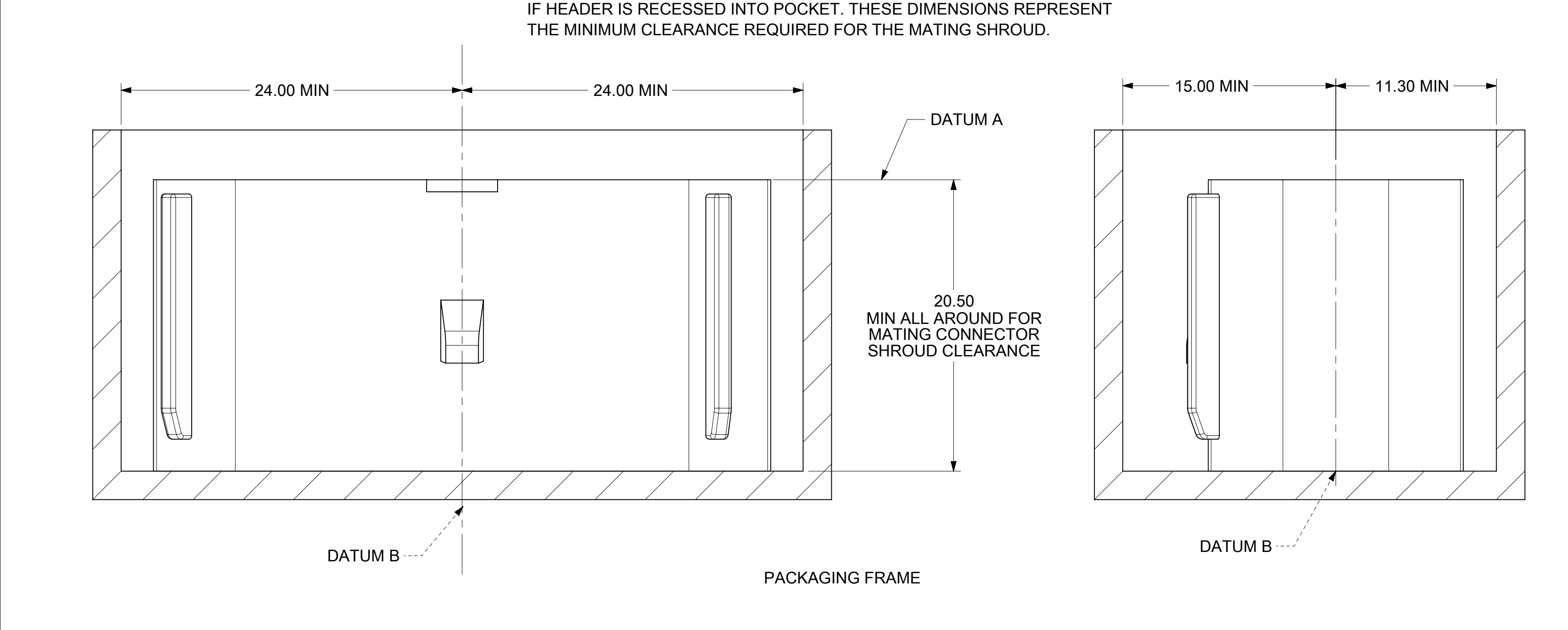


|        |                        |
|--------|------------------------|
| D      | STONE GRAY             |
| C      | DARK GRAY              |
| B      | LIGHT GRAY             |
| A      | BLACK                  |
| OPTION | MATING CONNECTOR COLOR |



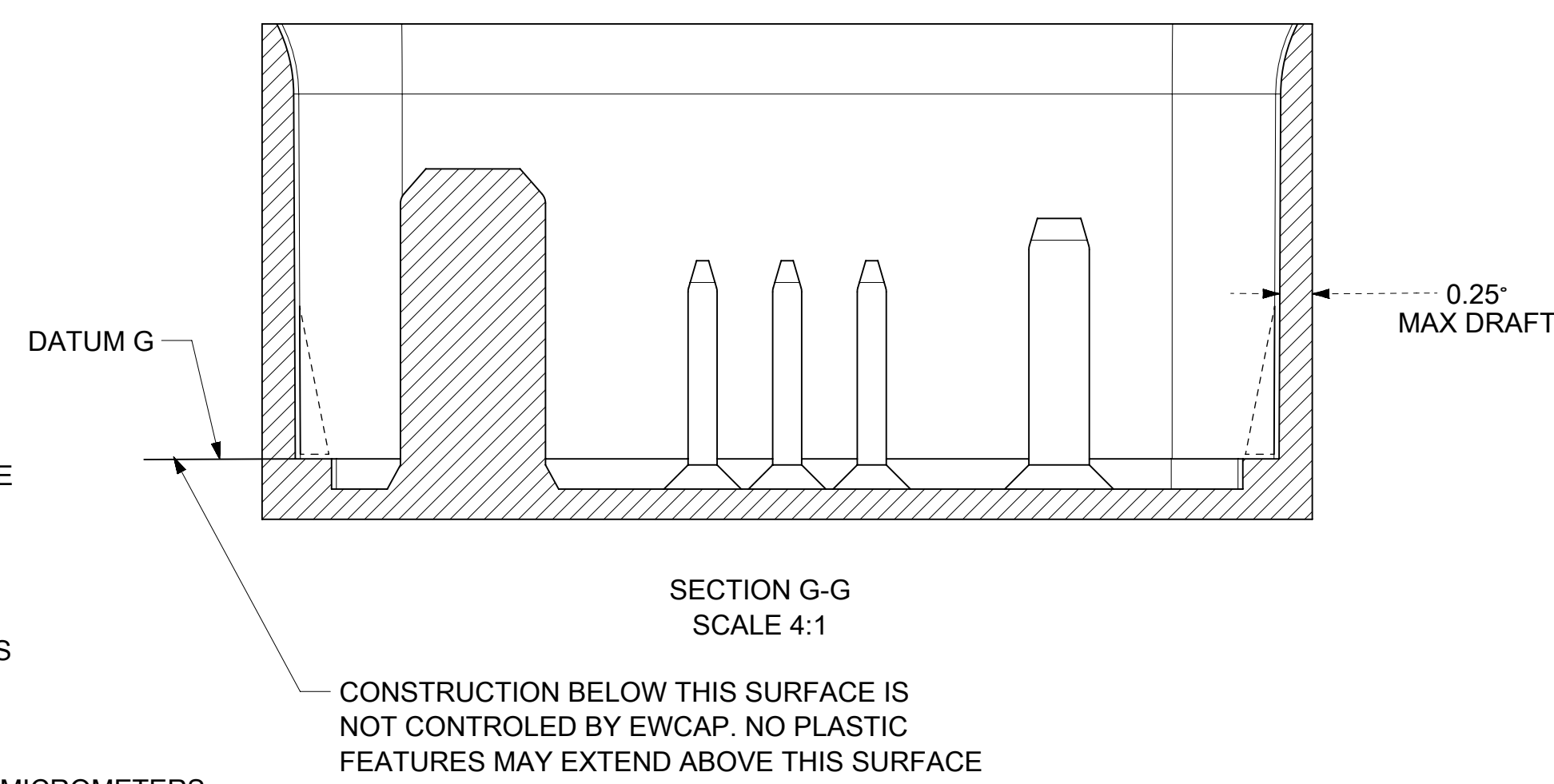
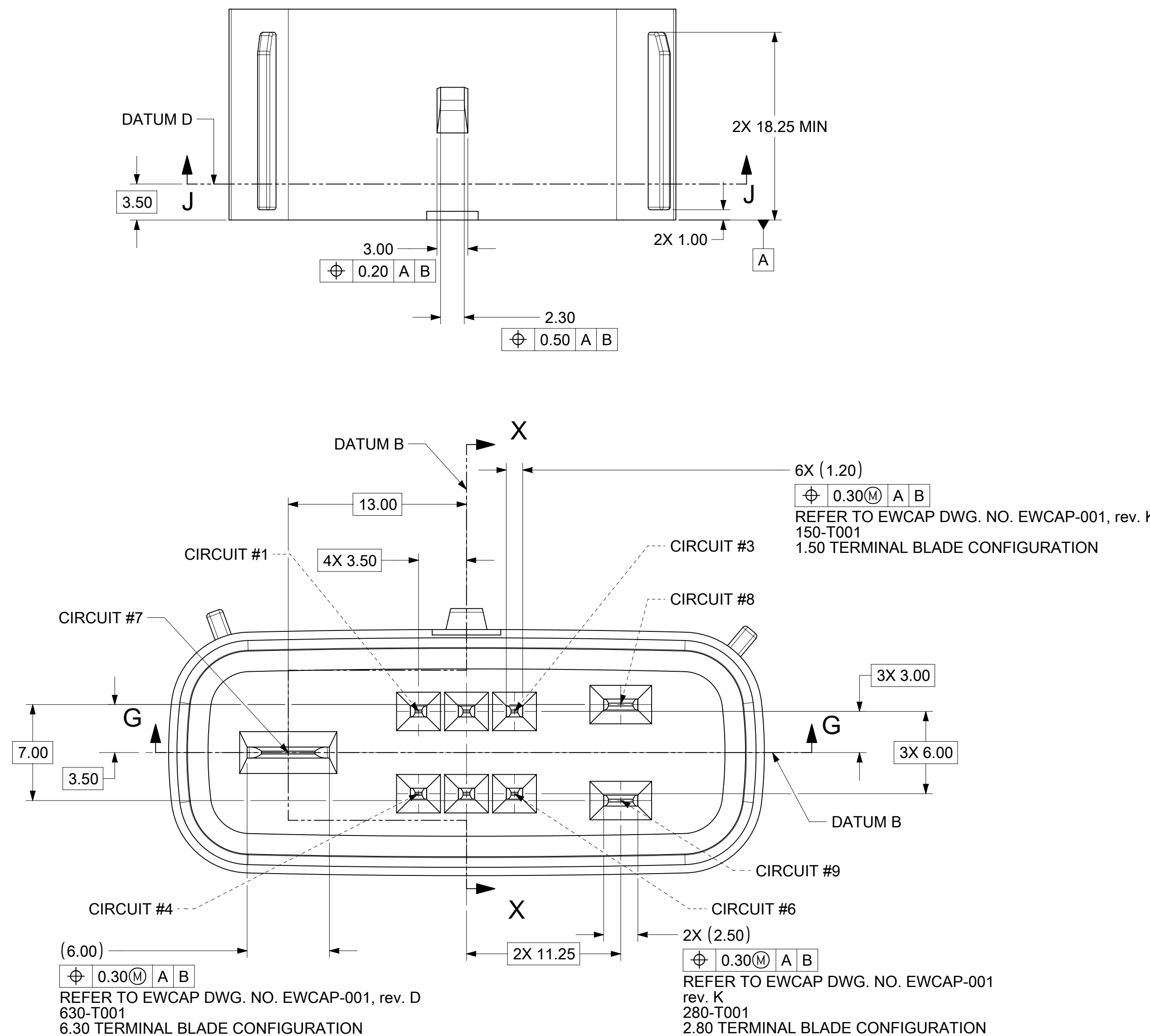
NOTES: UNLESS OTHERWISE SPECIFIED

- ALL DIMENSIONS SHOWN IN MILLIMETERS.
- DIMENSIONING AND TOLERANCING PER ASME Y14.5M-1994
- 0.25 RADII ON ALL CORNERS SHOWN SHARP.
- UNSPECIFIED RADII: 0.25 EXCEPT AS NOTED.
- STANDARD COLORS FOR POLARIZATION (SEE CHART). DEVIATION REQUIRES APPROVAL OF AUTHORIZED PERSON.
- REFER TO "SAE/USCAR 12 CONNECTOR GUIDELINES" FOR ADDITIONAL REQUIREMENTS.
- EXCEPT WHERE NOTED, DRAFT ON OUTSIDE SURFACES IS PERMISSIBLE WITHIN TOLERANCE.
- SYMBOL INDICATES DRAFT DIRECTION.
- FOR TERMINAL MATERIAL, DIMENSIONAL, AND COATING REQUIREMENTS AND ANY BLADE TERMINAL DESIGN INFORMATION NOT SHOWN ON THIS DRAWING SEE EWCAP DRW. NO. EWCAP-001, rev. K  
1.5 PLATING:  
UNDERPLATING: ELECTRO-DEPOSITED NICKEL SULFAMATE 1.00-1.80 MICROMETERS  
TOP LAYER: ELECTRO-DEPOSITED SILVER 1.90-3.30 MICROMETERS  
ENVIRONMENTAL BARRIER: EVABRITE-S  
2.8 PLATING:  
UNDERPLATING: ELECTRO-DEPOSITED NICKEL SULFAMATE 1.00-1.80 MICROMETERS  
TOP LAYER: ELECTRO-DEPOSITED SILVER 1.90-3.30 MICROMETERS  
ENVIRONMENTAL BARRIER: EVABRITE-S  
6.3 PLATING:  
UNDERPLATING: ELECTRO-DEPOSITED NICKEL 1.25-2.25 MICROMETERS  
TOP LAYER: ELECTRO-DEPOSITED SILVER 1.90-3.30 MICROMETERS  
ENVIRONMENTAL BARRIER: EVABRITE-S
- A FULL SHROUD ON THE MATING CONNECTOR IS REQUIRED TO INSURE THAT THE CONNECTOR-HEADER POLARIZATION FEATURES (OPTIONS A THRU D) WILL FUNCTION. THE FULL SHROUD ALSO PREVENTS SCOOP DAMAGE TO THE HEADER PINS. REFER TO "SAE/USCAR-12 CONNECTOR DESIGN GUIDE LINES" FOR ADDITIONAL INFORMATION.
- REFER TO USCAR/EWCAP PART LIST AS FOUND ON WEBSITE <http://www.uscarteams.org>
- THIS IS A 100% CAD GENERATED PART. THE CAD MATHEMATICAL DATA IS THE MASTER FOR THIS PART. FOR DIMENSIONAL OR ANY INFORMATION NOT SHOWN ON THIS DRAWING, ANALYZE THE CAD MODEL.

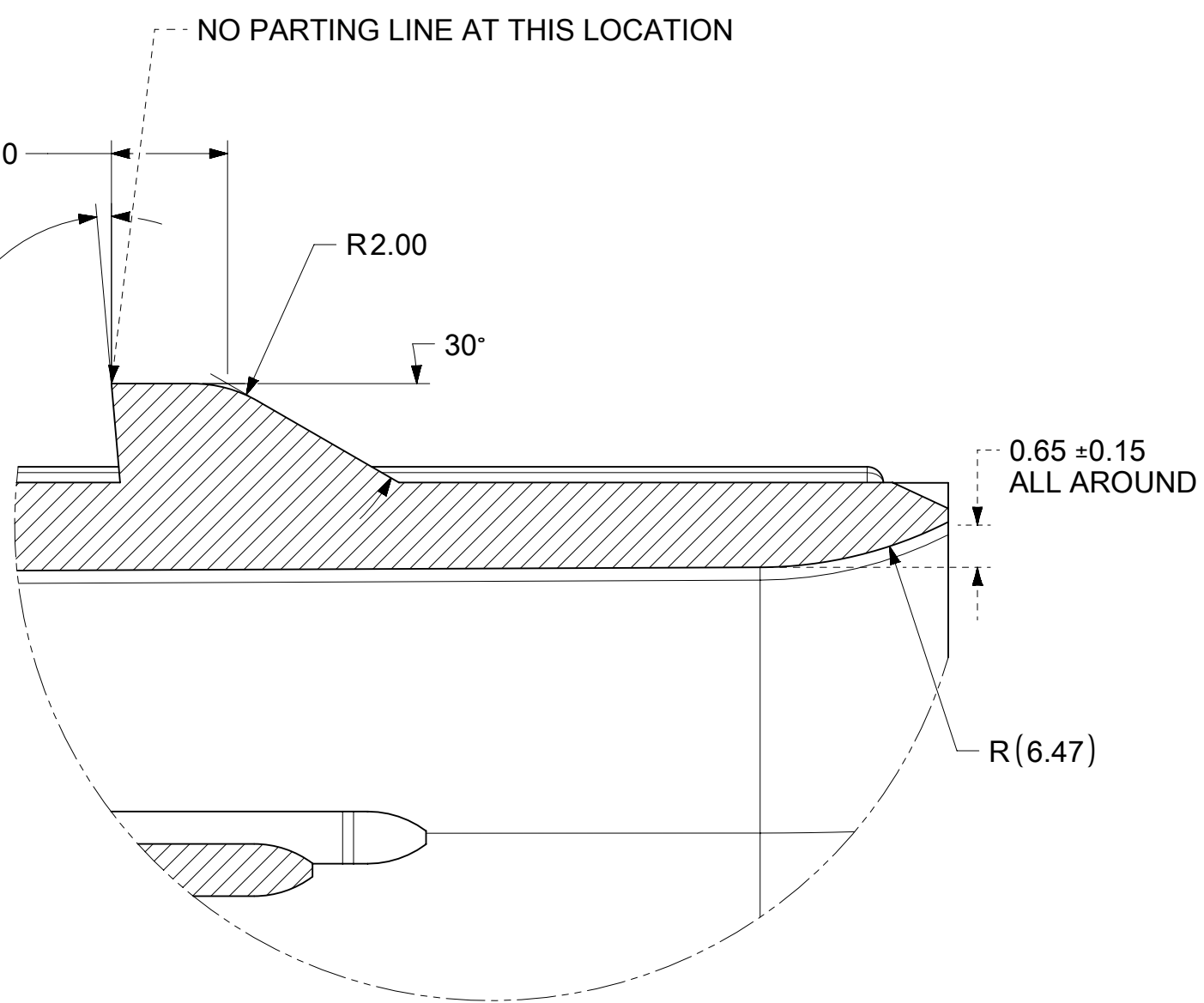
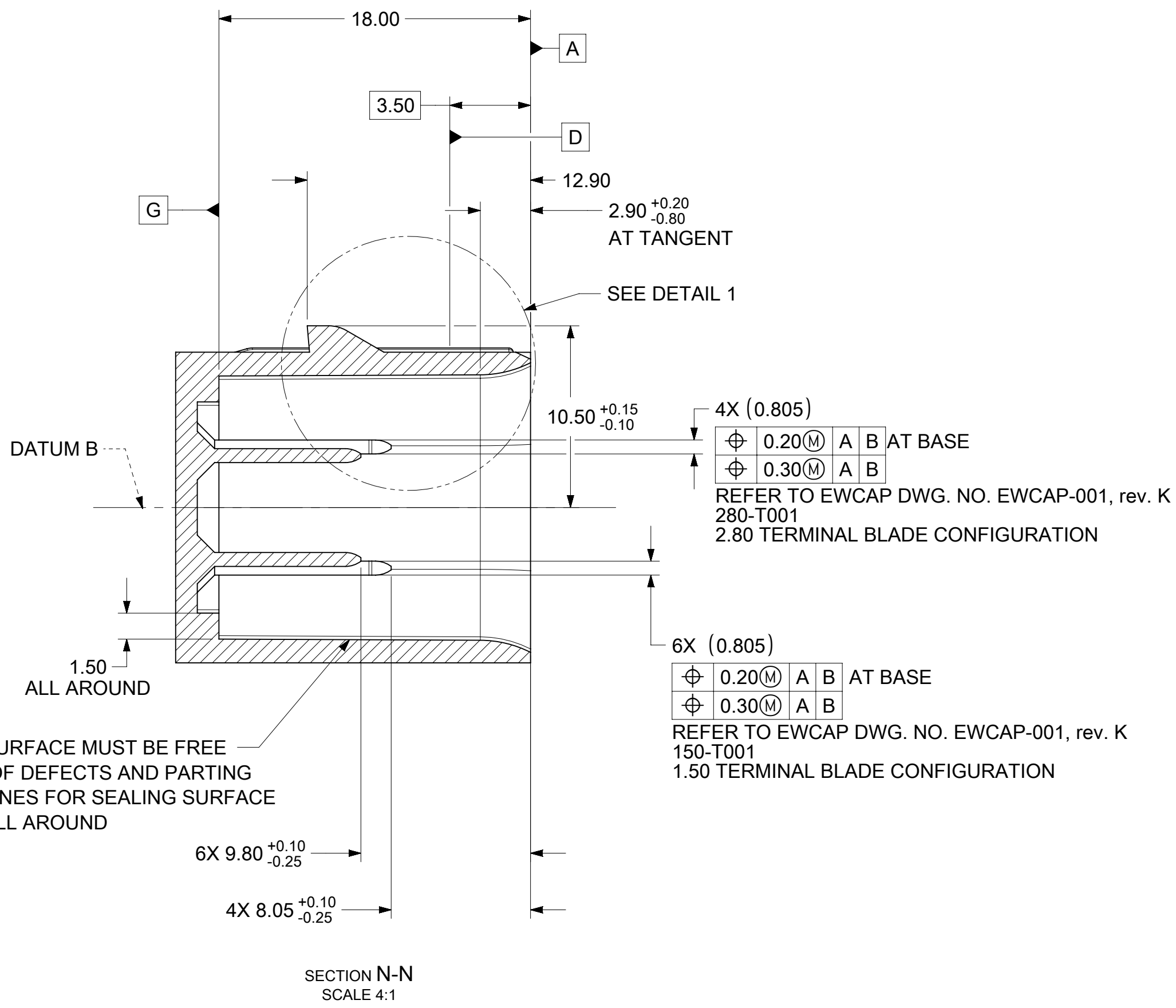
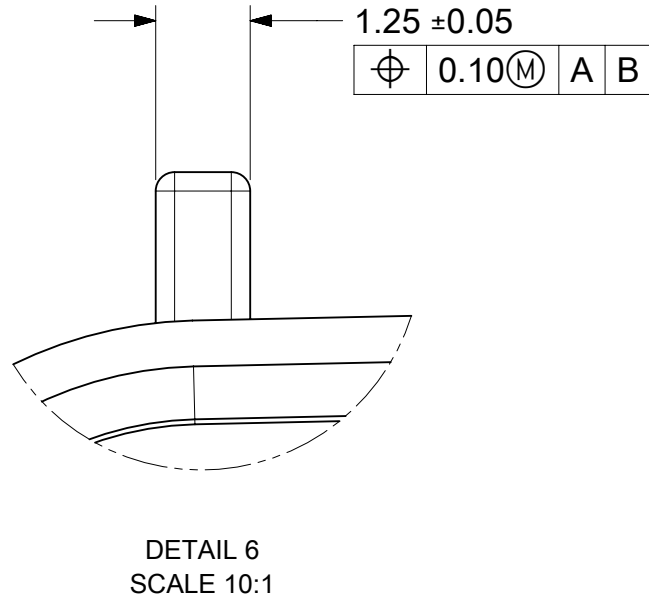
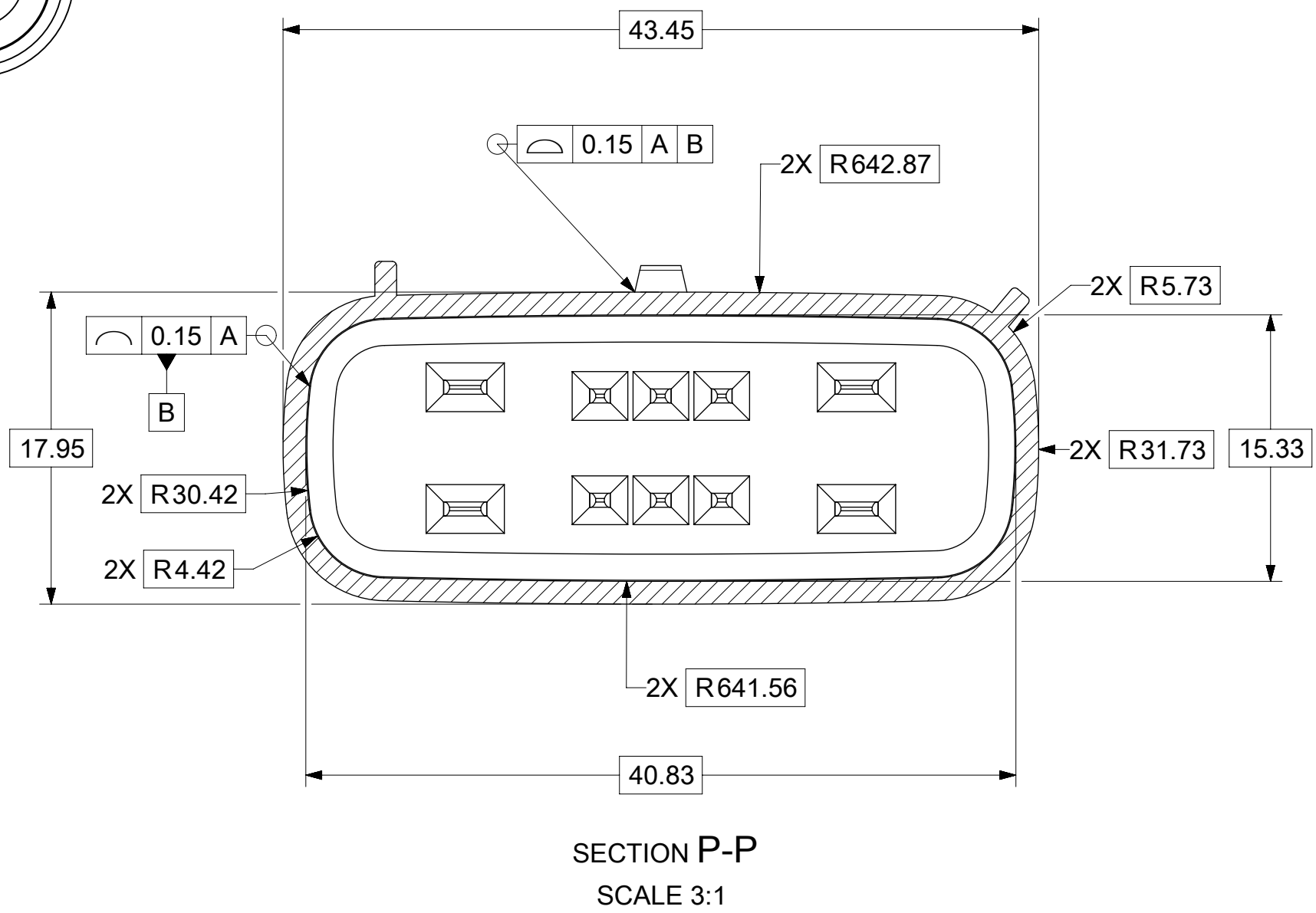
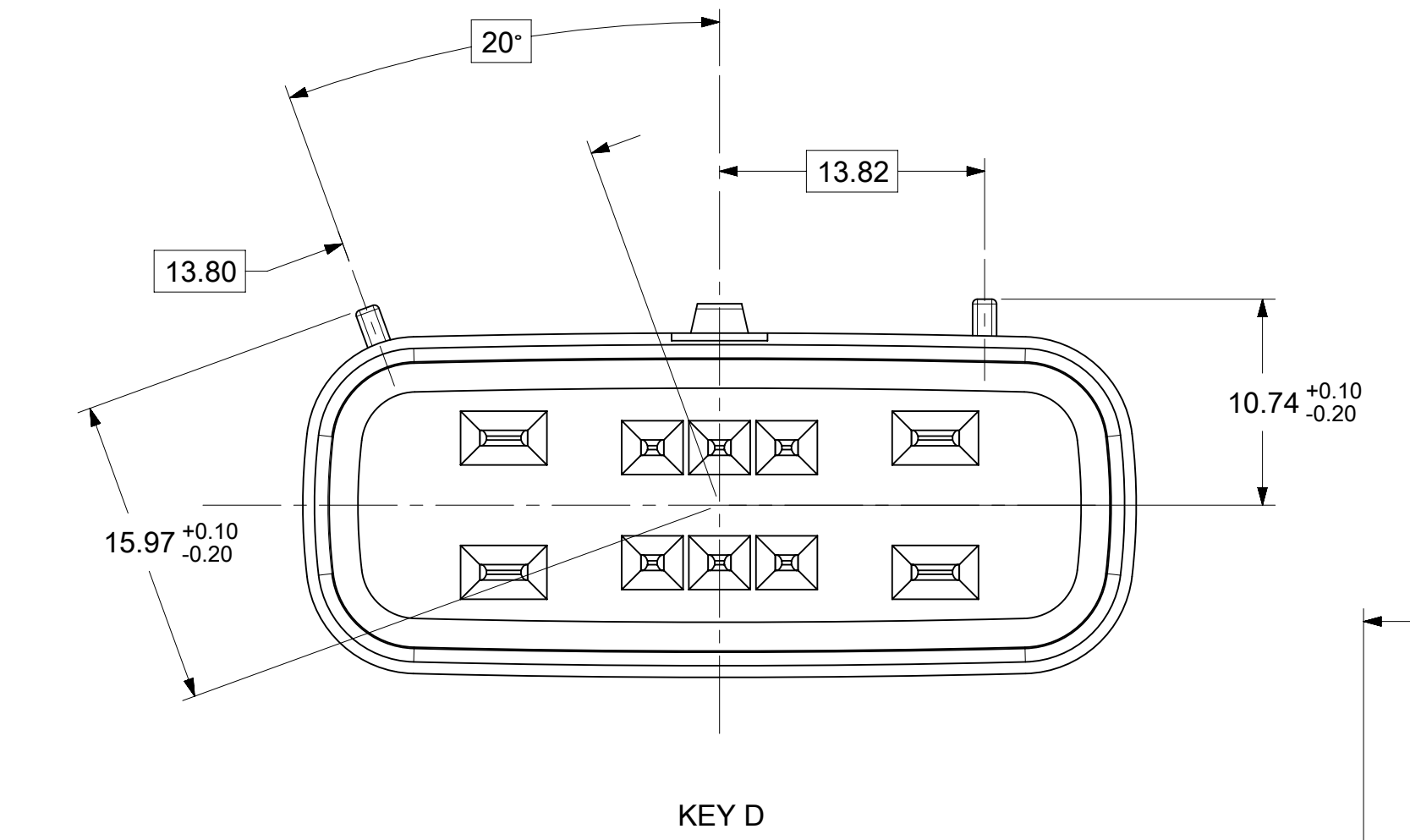
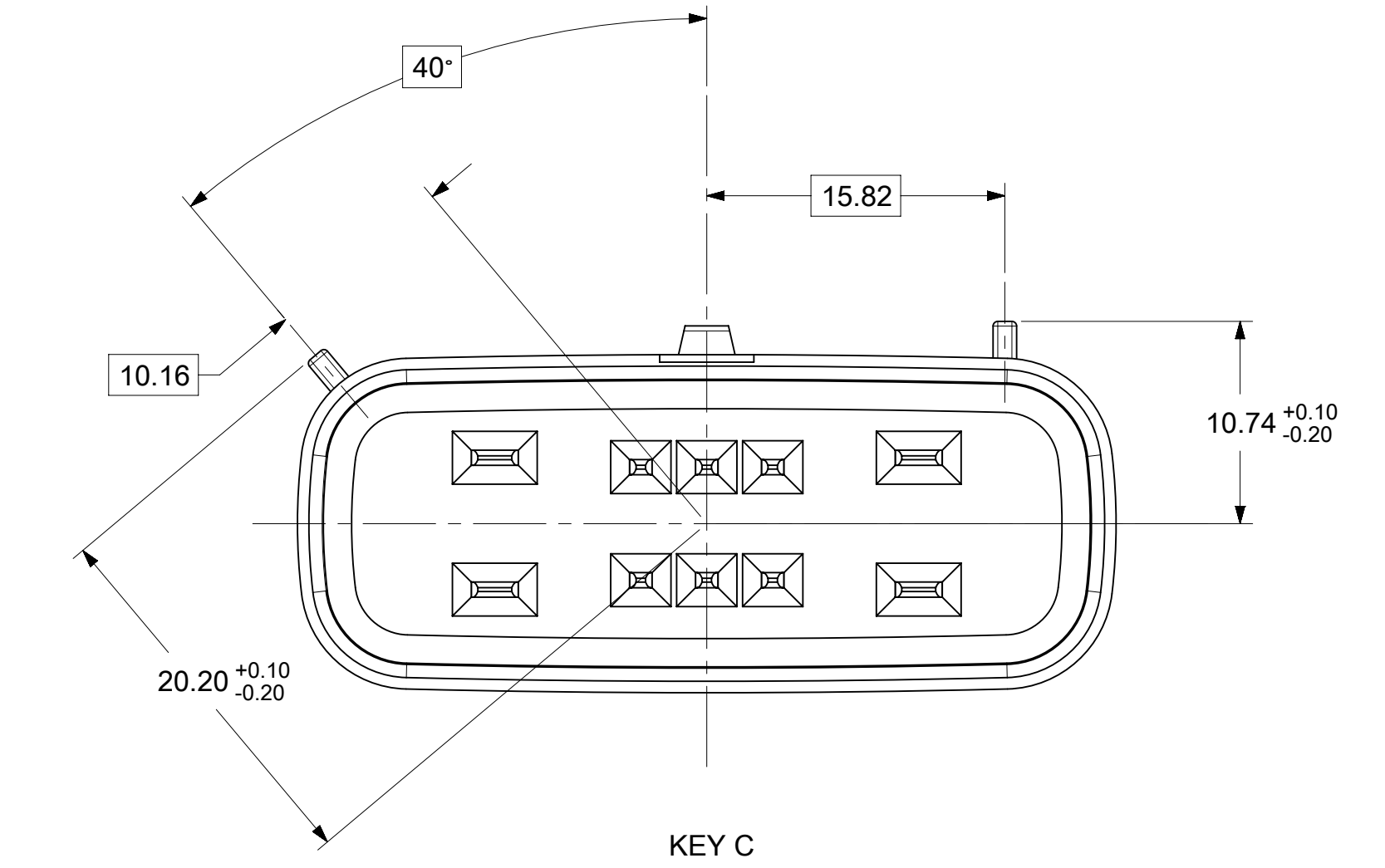
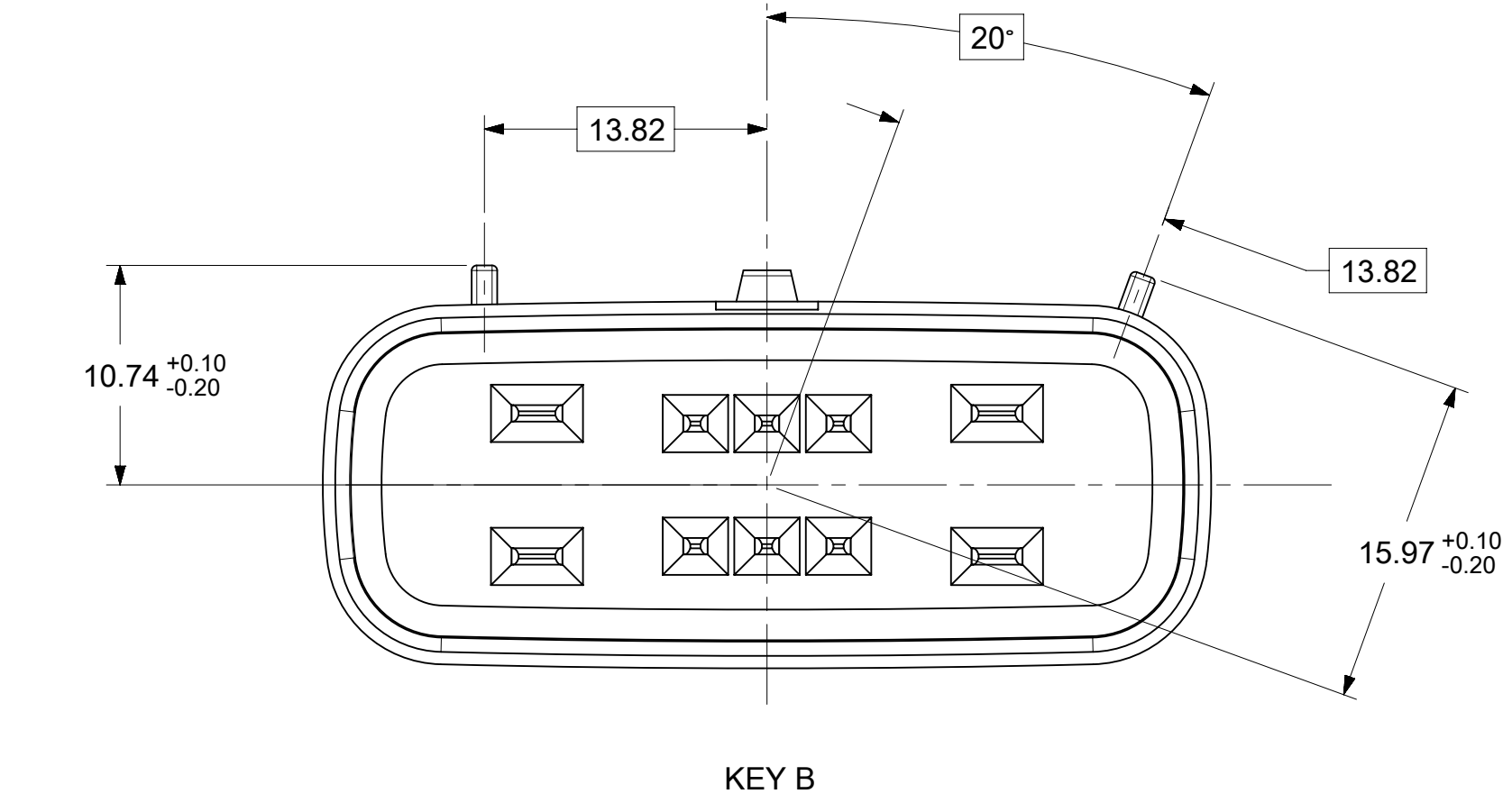
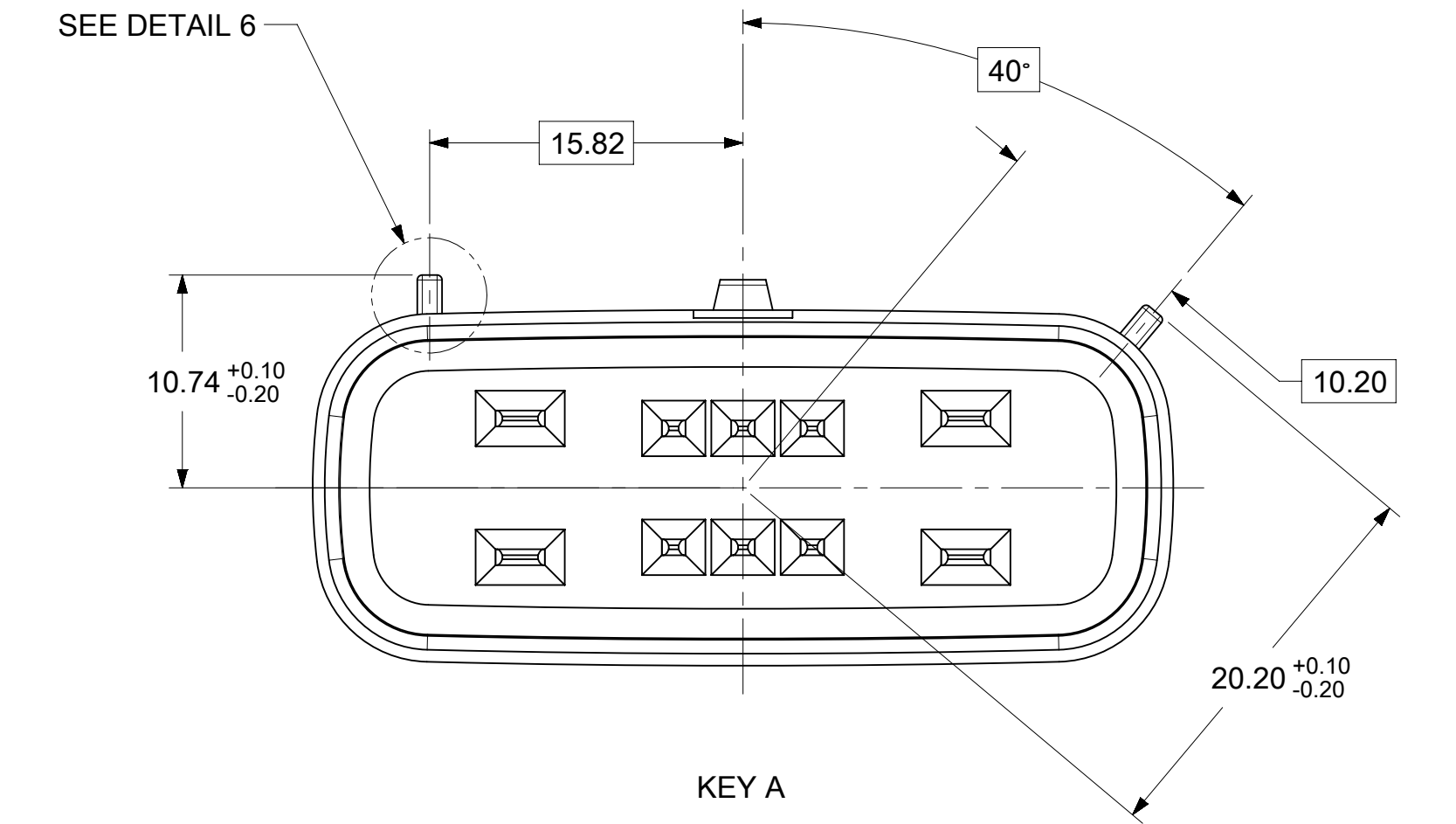


NOTICE

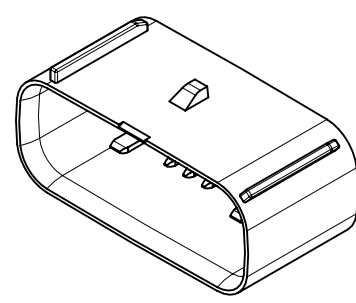
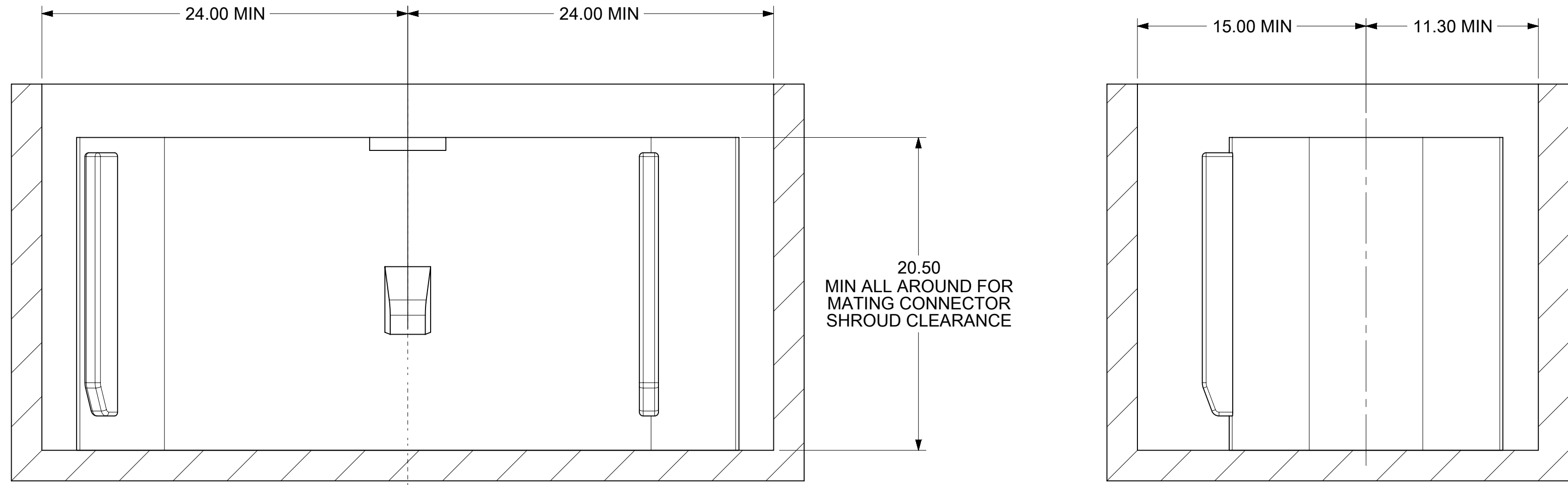
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| SYMBOLS |  | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION |       | CURRENT REV DESC:                                    |  | molex                                                                 |  |  |  |
|---------|--|-----------------------------------------------------------------------------------------------------------------------------------------------|-------|------------------------------------------------------|--|-----------------------------------------------------------------------|--|--|--|
| = 0     |  | DIMENSION UNITS                                                                                                                               | SCALE | GENERAL TOLERANCES (UNLESS SPECIFIED)                |  | MX150 HYB RCPT DUAL ROW SEALED ASSY DUAL ROW SEALED ASSEMBLY MAT SEAL |  |  |  |
| = 0     |  | mm                                                                                                                                            | 4:1   | ANGULAR TOL ± 3.0°                                   |  | PRODUCT CUSTOMER DRAWING                                              |  |  |  |
| = 0     |  | 4 PLACES                                                                                                                                      | ±     | 2 PLACES ± 0.1                                       |  | DOCUMENT NUMBER                                                       |  |  |  |
| = 0     |  | 3 PLACES                                                                                                                                      | ±     | 1 PLACE ± 0.2                                        |  | DOC TYPE                                                              |  |  |  |
| = 0     |  | 2 PLACES                                                                                                                                      | ±     | 0 PLACES ±                                           |  | DOC PART                                                              |  |  |  |
| = 0     |  | 1 PLACE                                                                                                                                       | ±     | DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS |  | REVISION                                                              |  |  |  |
| = 0     |  | 0 PLACES                                                                                                                                      | ±     | THIRD ANGLE PROJECTION                               |  | SD-160076-0001                                                        |  |  |  |
| = 0     |  |                                                                                                                                               |       | E-SIZE                                               |  | PSD                                                                   |  |  |  |
| = 0     |  |                                                                                                                                               |       | 160076                                               |  | 001                                                                   |  |  |  |
| = 0     |  |                                                                                                                                               |       | SERIES                                               |  | A8                                                                    |  |  |  |
| = 0     |  |                                                                                                                                               |       | DRAWING                                              |  | SEE NOTE 2a.                                                          |  |  |  |
| = 0     |  |                                                                                                                                               |       | GENERAL MARKET                                       |  | SHEET NUMBER                                                          |  |  |  |
| = 0     |  |                                                                                                                                               |       | 6 OF 7                                               |  |                                                                       |  |  |  |

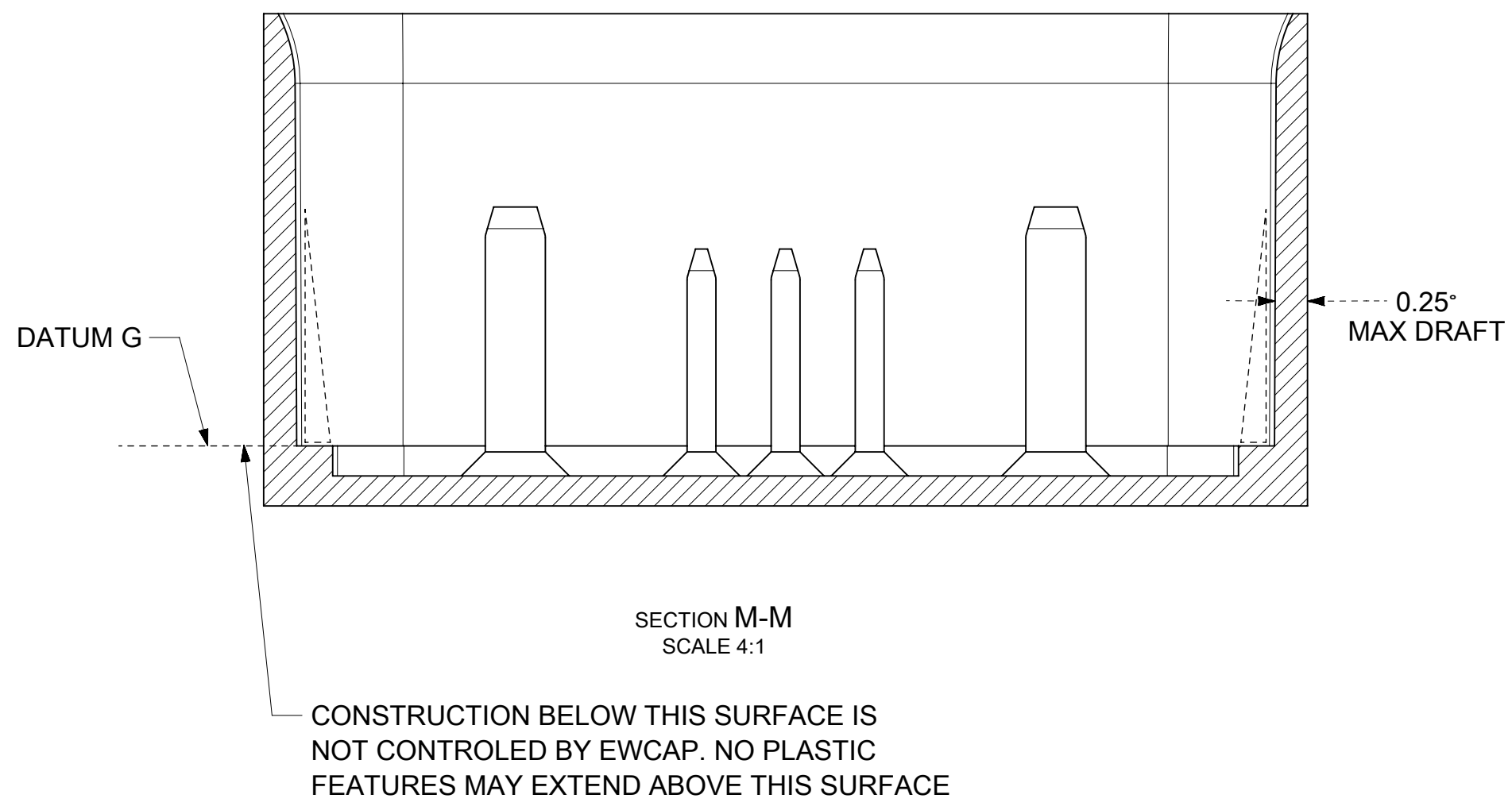
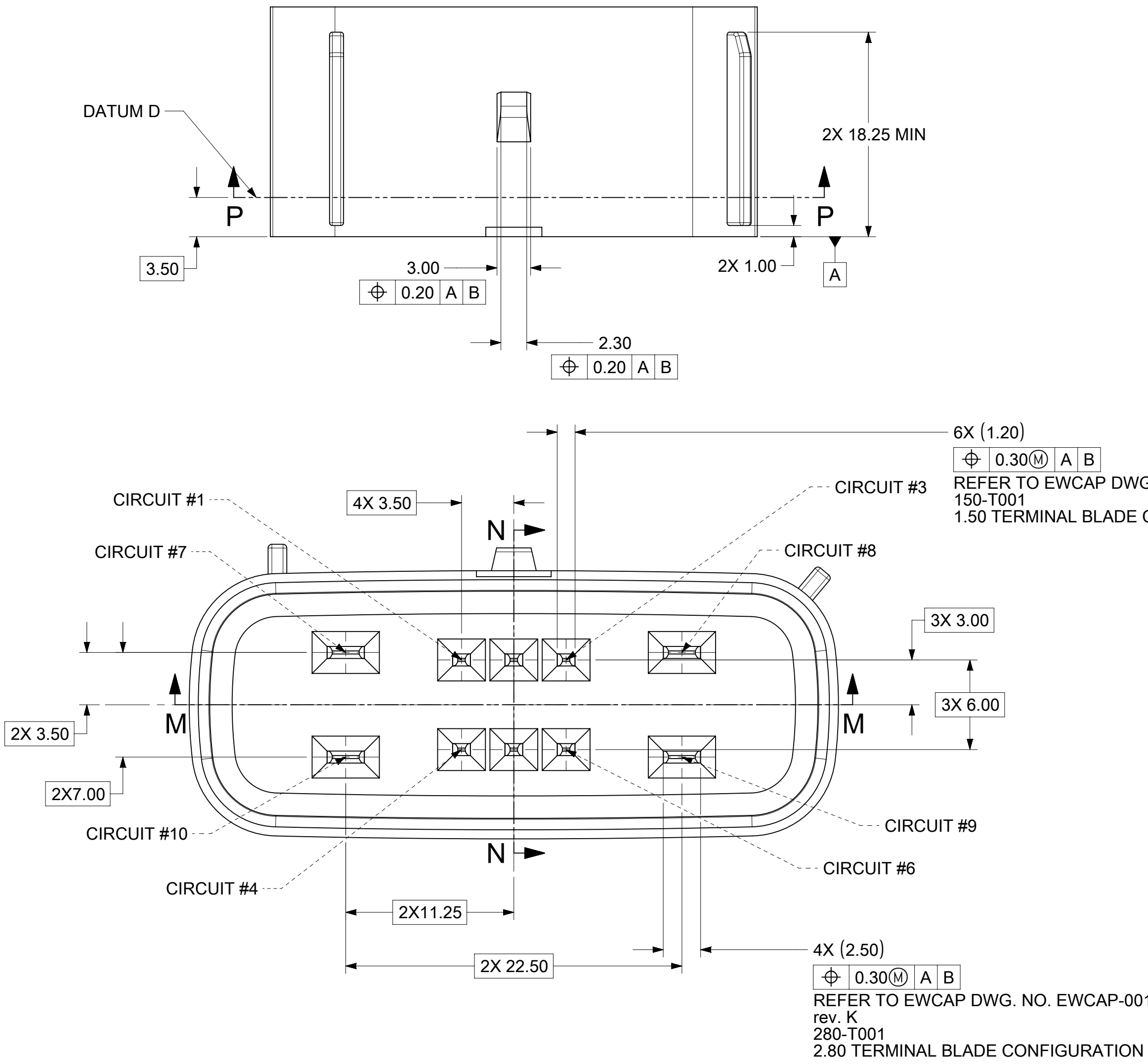


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  - DIMENSIONING AND TOLERANCING PER ASME Y14.5M-1994
  - 0.25 RADII ON ALL CORNERS SHOWN SHARP.
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TOP LAYER: ELECTRO-DEPOSITED SILVER 1.90-3.30 MICROMETERS  
ENVIRONMENTAL BARRIER: EVABRITE-S  
2.8 PLATING:  
UNDERPLATING: ELECTRO-DEPOSITED NICKEL SULFAMATE 1.00-1.80 MICROMETERS  
TOP LAYER: ELECTRO-DEPOSITED SILVER 1.90-3.30 MICROMETERS  
ENVIRONMENTAL BARRIER: EVABRITE-S
  - A FULL SHROUD ON THE MATING CONNECTOR IS REQUIRED TO INSURE THAT THE CONNECTOR-HEADER POLARIZATION FEATURES (OPTIONS A THRU D) WILL FUNCTION. THE FULL SHROUD ALSO PREVENTS SCOOP DAMAGE TO THE HEADER PINS. REFER TO "SAE/USCAR-12 CONNECTOR DESIGN GUIDE LINES" FOR ADDITIONAL INFORMATION.
  - REFER TO USCAR/EWCAP PART LIST AS FOUND ON WEBSITE <http://www.uscarteams.org>
  - THIS IS A 100% CAD GENERATED PART. THE CAD MATHEMATICAL DATA IS THE MASTER FOR THIS PART. FOR DIMENSIONAL OR ANY INFORMATION NOT SHOWN ON THIS DRAWING, ANALYZE THE CAD MODEL.



NOTICE

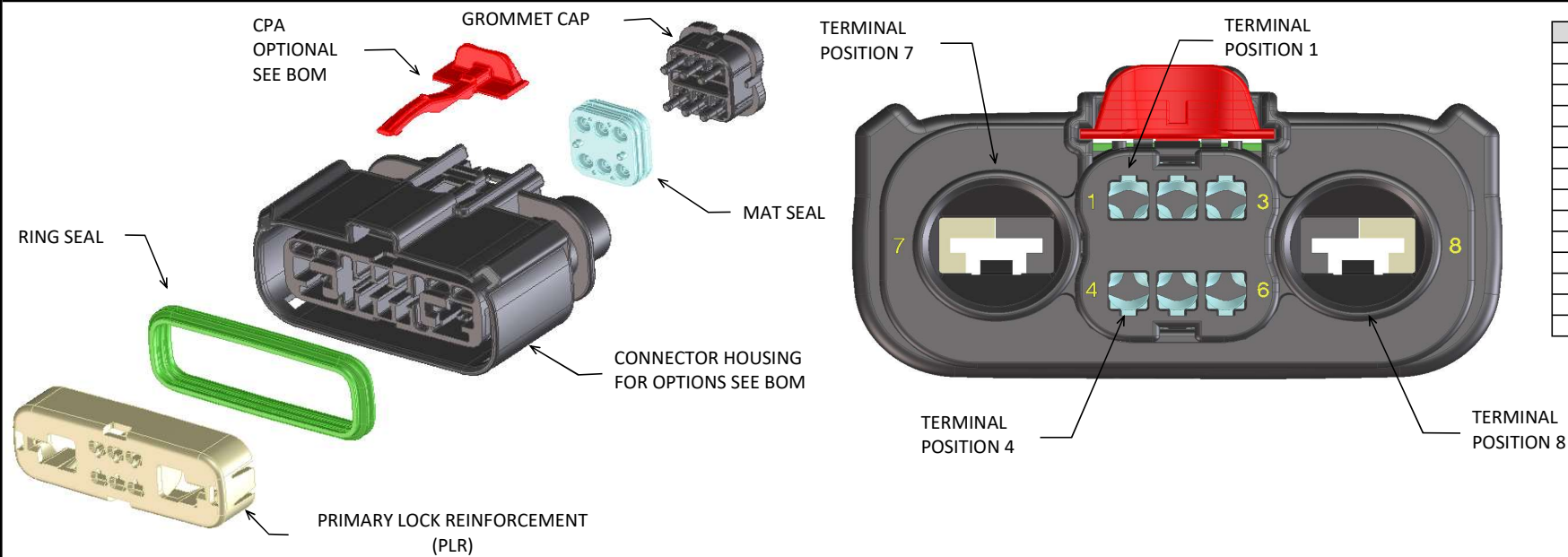
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| SYMBOLS |     | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION |  |       |  |                                                                                                                |  |        |  |                                                                                                      |  |                |  |              |  |
|---------|-----|-----------------------------------------------------------------------------------------------------------------------------------------------|--|-------|--|----------------------------------------------------------------------------------------------------------------|--|--------|--|------------------------------------------------------------------------------------------------------|--|----------------|--|--------------|--|
|         | = 0 | DIMENSION UNITS                                                                                                                               |  | SCALE |  | CURRENT REV DESC:                                                                                              |  |        |  | <div>molex</div>                                                                                     |  |                |  |              |  |
|         | = 0 | mm                                                                                                                                            |  | 4:1   |  |                                                                                                                |  |        |  |                                                                                                      |  |                |  |              |  |
|         | = 0 | GENERAL TOLERANCES (UNLESS SPECIFIED)                                                                                                         |  |       |  | EC NO: 660404<br>DRWN: ATEEGULLA 2021/04/08<br>CHK'D: KBORUSZEWSKI 2021/04/08<br>APPR: KBORUSZEWSKI 2021/04/08 |  |        |  | MX150 HYB RCPT DUAL ROW SEALED ASSY<br>DUAL ROW SEALED ASSEMBLY MAT SEAL                             |  |                |  |              |  |
|         | = 0 | ANGULAR TOL ± 3.0 °                                                                                                                           |  |       |  |                                                                                                                |  |        |  |                                                                                                      |  |                |  |              |  |
|         | = 0 | 4 PLACES                                                                                                                                      |  | ±     |  |                                                                                                                |  |        |  |                                                                                                      |  |                |  |              |  |
|         | = 0 | 3 PLACES                                                                                                                                      |  | ±     |  | INITIAL REVISION:<br>DRWN: APROFFITT 2015/01/29<br>APPR: VKOSHY 2015/05/21                                     |  |        |  | PRODUCT CUSTOMER DRAWING<br><div>DOCUMENT NUMBERSD-160076-0001DOC TYPEPSDDOC PART001REVISIONA8</div> |  |                |  |              |  |
|         | = 0 | 2 PLACES                                                                                                                                      |  | ± 0.1 |  |                                                                                                                |  |        |  |                                                                                                      |  |                |  |              |  |
|         | = 0 | 1 PLACE                                                                                                                                       |  | ± 0.2 |  |                                                                                                                |  |        |  |                                                                                                      |  |                |  |              |  |
|         | = 0 | 0 PLACES                                                                                                                                      |  | ±     |  | DRAFT WHERE APPLICABLE<br>MUST REMAIN<br>WITHIN DIMENSIONS                                                     |  |        |  | THIRD ANGLE PROJECTION<br>                                                                           |  |                |  |              |  |
|         | = 0 |                                                                                                                                               |  |       |  |                                                                                                                |  |        |  |                                                                                                      |  |                |  |              |  |
|         | = 0 |                                                                                                                                               |  |       |  | DRAWING                                                                                                        |  | SERIES |  | MATERIAL NUMBER                                                                                      |  | CUSTOMER       |  | SHEET NUMBER |  |
|         | = 0 |                                                                                                                                               |  |       |  | E-SIZE                                                                                                         |  | 160076 |  | SEE NOTE 2a.                                                                                         |  | GENERAL MARKET |  | 7 OF 7       |  |

|        |                        |
|--------|------------------------|
| D      | STONE GRAY             |
| C      | DARK GRAY              |
| B      | LIGHT GRAY             |
| A      | BLACK                  |
| OPTION | MATING CONNECTOR COLOR |

MX150 1.5/6.3 HYBRID 8 WAY RECEPTACLE SEALED ASSEMBLY MAT SEAL  
BOM AND PIN OUT SHEET



| ABBREVIATION | DESCRIPTION                           | COLOR      | MATERIAL                       |
|--------------|---------------------------------------|------------|--------------------------------|
| A1-BLK       | HOUSING KEYING OPTION A               | BLACK      | PA6 GF40                       |
| B1-LG        | HOUSING KEYING OPTION B               | LIGHT GRAY | PA6 GF40                       |
| C1-DG        | HOUSING KEYING OPTION C               | DARK GRAY  | PA6 GF40                       |
| D1-SG        | HOUSING KEYING OPTION D               | STONE GRAY | PA6 GF40                       |
| A1-BLK-CLIP  | HOUSING KEYING OPTION A WITH CLIPSLOT | BLACK      | PA6 GF40                       |
| B1-LG-CLIP   | HOUSING KEYING OPTION B WITH CLIPSLOT | LIGHT GRAY | PA6 GF40                       |
| C1-DG-CLIP   | HOUSING KEYING OPTION C WITH CLIPSLOT | DARK GRAY  | PA6 GF40                       |
| D1-SG-CLIP   | HOUSING KEYING OPTION D WITH CLIPSLOT | STONE GRAY | PA6 GF40                       |
| GCP          | GROMMET CAP (PLUGGED)                 | BLACK      | PA6 GF40                       |
| GCO          | GROMMET CAP (OPEN)                    | BLACK      | PA6 GF40                       |
| PLR          | PLR                                   | NATURAL    | PA6 GF40                       |
| CPA          | CPA                                   | RED        | PBT GF30                       |
| M            | MAT SEAL                              | LIGHT BLUE | INHERENTLY LUBRICATED SILICONE |
| R            | RING SEAL                             | GREEN      | INHERENTLY LUBRICATED SILICONE |

FOR ADDITIONAL INFORMATION SEE SD-160076-0001

| ASSEMBLY DESCRIPTION                    | ASSEMBLY PART<br>NUMBER | COMPONENT                                                                    |                |     |     |          |           | BLOCKED TERMINALS                                                                                                    |   |   |   |   |   |   |   | STATUS   | COMMENTS | OPTIONAL ATTATCHMENTS SOLD SEPERATELY |                           |
|-----------------------------------------|-------------------------|------------------------------------------------------------------------------|----------------|-----|-----|----------|-----------|----------------------------------------------------------------------------------------------------------------------|---|---|---|---|---|---|---|----------|----------|---------------------------------------|---------------------------|
|                                         |                         | THE PRESENCE OF AN ABBREVIATION INDICATES THE PRESENCE OF THAT<br>COMPONENT. |                |     |     |          |           | CAVITY WITH A NUMBER INDICATES BLOCKED TERMINAL POSITION<br>CAVITY WITHOUT A NUMBER INDICATES OPEN TERMINAL POSITION |   |   |   |   |   |   |   |          |          | BACKSHELL WITH<br>RIBS                | BACKSHELL WITHOUT<br>RIBS |
|                                         |                         | HOUSING<br>KEY/COLOR                                                         | GROMMET<br>CAP | PLR | CPA | MAT SEAL | RING SEAL | 1                                                                                                                    | 2 | 3 | 4 | 5 | 6 | 7 | 8 |          |          |                                       |                           |
| KEY A, BLACK, W/O CPA                   | 160078-3001             | A1-BLK                                                                       | GCO            | PLR |     | M        | R         |                                                                                                                      |   |   |   |   |   |   |   | SALEABLE |          | TBD                                   | TBD                       |
| KEY B, LIGHT GRAY, W/O CPA              | 160078-3002             | B1-LG                                                                        | GCO            | PLR |     | M        | R         |                                                                                                                      |   |   |   |   |   |   |   | SALEABLE |          | TBD                                   | TBD                       |
| KEY C, DARK GRAY, W/O CPA               | 160078-3003             | C1-DG                                                                        | GCO            | PLR |     | M        | R         |                                                                                                                      |   |   |   |   |   |   |   | SALEABLE |          | TBD                                   | TBD                       |
| KEY D, STONE GRAY, W/O CPA              | 160078-3004             | D1-SG                                                                        | GCO            | PLR |     | M        | R         |                                                                                                                      |   |   |   |   |   |   |   | SALEABLE |          | TBD                                   | TBD                       |
| VOID KEY                                | 160078-3005             |                                                                              |                |     |     |          |           |                                                                                                                      |   |   |   |   |   |   |   |          |          |                                       |                           |
| KEY A, BLACK, W/ CPA                    | 160078-3006             | A1-BLK                                                                       | GCO            | PLR | CPA | M        | R         |                                                                                                                      |   |   |   |   |   |   |   | SALEABLE |          | TBD                                   | TBD                       |
| KEY B, LIGHT GRAY, W/ CPA               | 160078-3007             | B1-LG                                                                        | GCO            | PLR | CPA | M        | R         |                                                                                                                      |   |   |   |   |   |   |   | SALEABLE |          | TBD                                   | TBD                       |
| KEY C, DARK GRAY, W/ CPA                | 160078-3008             | C1-DG                                                                        | GCO            | PLR | CPA | M        | R         |                                                                                                                      |   |   |   |   |   |   |   | SALEABLE |          | TBD                                   | TBD                       |
| KEY D, STONE GRAY, W/ CPA               | 160078-3009             | D1-SG                                                                        | GCO            | PLR | CPA | M        | R         |                                                                                                                      |   |   |   |   |   |   |   | SALEABLE |          | TBD                                   | TBD                       |
| VOID KEY                                | 160078-3010             |                                                                              |                |     |     |          |           |                                                                                                                      |   |   |   |   |   |   |   |          |          |                                       |                           |
| KEY A, BLACK, W/ CLIPSLOT, W/O CPA      | 160078-3011             | A1-BLK-CLIP                                                                  | GCO            | PLR |     | M        | R         |                                                                                                                      |   |   |   |   |   |   |   | SALEABLE |          | TBD                                   | TBD                       |
| KEY B, LIGHT GRAY, W/ CLIPSLOT, W/O CPA | 160078-3012             | B1-LG-CLIP                                                                   | GCO            | PLR |     | M        | R         |                                                                                                                      |   |   |   |   |   |   |   | SALEABLE |          | TBD                                   | TBD                       |
| KEY C, DARK GRAY, W/ CLIPSLOT, W/O CPA  | 160078-3013             | C1-DG-CLIP                                                                   | GCO            | PLR |     | M        | R         |                                                                                                                      |   |   |   |   |   |   |   | SALEABLE |          | TBD                                   | TBD                       |
| KEY D, STONE GRAY, W/ CLIPSLOT, W/O CPA | 160078-3014             | D1-SG-CLIP                                                                   | GCO            | PLR |     | M        | R         |                                                                                                                      |   |   |   |   |   |   |   | SALEABLE |          | TBD                                   | TBD                       |
| VOID KEY                                | 160078-3015             |                                                                              |                |     |     |          |           |                                                                                                                      |   |   |   |   |   |   |   |          |          |                                       |                           |
| KEY A, BLACK, W/ CLIPSLOT, W/ CPA       | 160078-3016             | A1-BLK-CLIP                                                                  | GCO            | PLR | CPA | M        | R         |                                                                                                                      |   |   |   |   |   |   |   | SALEABLE |          | TBD                                   | TBD                       |
| KEY B, LIGHT GRAY, W/ CLIPSLOT, W/ CPA  | 160078-3017             | B1-LG-CLIP                                                                   | GCO            | PLR | CPA | M        | R         |                                                                                                                      |   |   |   |   |   |   |   | SALEABLE |          | TBD                                   | TBD                       |
| KEY C, DARK GRAY, W/ CLIPSLOT, W/ CPA   | 160078-3018             | C1-DG-CLIP                                                                   | GCO            | PLR | CPA | M        | R         |                                                                                                                      |   |   |   |   |   |   |   | SALEABLE |          | TBD                                   | TBD                       |
| KEY D, STONE GRAY, W/ CLIPSLOT, W/ CPA  | 160078-3019             | D1-SG-CLIP                                                                   | GCO            | PLR | CPA | M        | R         |                                                                                                                      |   |   |   |   |   |   |   | SALEABLE |          | TBD                                   | TBD                       |
| VOID KEY                                | 160078-3020             |                                                                              |                |     |     |          |           |                                                                                                                      |   |   |   |   |   |   |   |          |          |                                       |                           |
| KEY A, BLACK, W/ CPA                    | 160078-3021             | A1-BLK                                                                       | GCP            | PLR | CPA | M        | R         |                                                                                                                      |   |   |   |   |   | 7 |   | SALEABLE |          | TBD                                   | TBD                       |
| KEY A, BLACK, W/ CPA                    | 160078-3022             | A1-BLK                                                                       | GCP            | PLR | CPA | M        | R         |                                                                                                                      |   | 3 | 4 | 5 | 6 |   |   | SALEABLE |          | TBD                                   | TBD                       |
| KEY A, BLACK, W/ CPA                    | 160078-3023             | A1-BLK                                                                       | GCP            | PLR | CPA | M        | R         | 1                                                                                                                    | 2 | 3 | 4 | 5 | 6 |   |   | SALEABLE |          | TBD                                   | TBD                       |
| KEY B, LIGHT GRAY, W/ CPA               | 160078-3024             | B1-LG                                                                        | GCP            | PLR | CPA | M        | R         |                                                                                                                      |   | 3 | 4 | 5 | 6 |   |   | SALEABLE |          | TBD                                   | TBD                       |
| KEY A, BLACK, W/ CLIPSLOT, W/ CPA       | 160078-3025             | A1-BLK-CLIP                                                                  | GCP            | PLR | CPA | M        | R         | 1                                                                                                                    | 2 | 3 |   |   |   |   |   | SALEABLE |          | TBD                                   | TBD                       |
| KEY C, DARK GRAY, W/O CPA               | 160078-3026             | C1-DG                                                                        | GCP            | PLR |     | M        | R         |                                                                                                                      |   |   | 4 | 5 | 6 |   |   | SALEABLE |          | TBD                                   | TBD                       |
| KEY A, BLACK, W/ CPA                    | 160078-3027             | A1-BLK                                                                       | GCP            | PLR | CPA | M        | R         | 1                                                                                                                    |   |   |   | 5 | 6 |   |   | SALEABLE |          | TBD                                   | TBD                       |
| KEY A, BLACK, W/ CPA                    | 160078-3028             | A1-BLK                                                                       | GCP            | PLR | CPA | M        | R         |                                                                                                                      |   |   | 4 | 5 | 6 |   |   | SALEABLE |          | TBD                                   | TBD                       |
| KEY A, BLACK, W/ CPA                    | 160078-3029             | A1-BLK                                                                       | GCP            | PLR | CPA | M        | R         | 1                                                                                                                    | 2 | 3 |   |   |   |   |   | SALEABLE |          | TBD                                   | TBD                       |

MX150 1.5/2.8/6.3 HYBRID 9 WAY RECEPTACLE SEALED ASSEMBLY MAT SEAL  
BOM AND PIN OUT SHEET

CPA  
OPTIONAL  
SEE BOM

GROMMET CAP

TERMINAL POSITION 7

TERMINAL POSITION 1

TERMINAL POSITION 8

TERMINAL POSITION 4

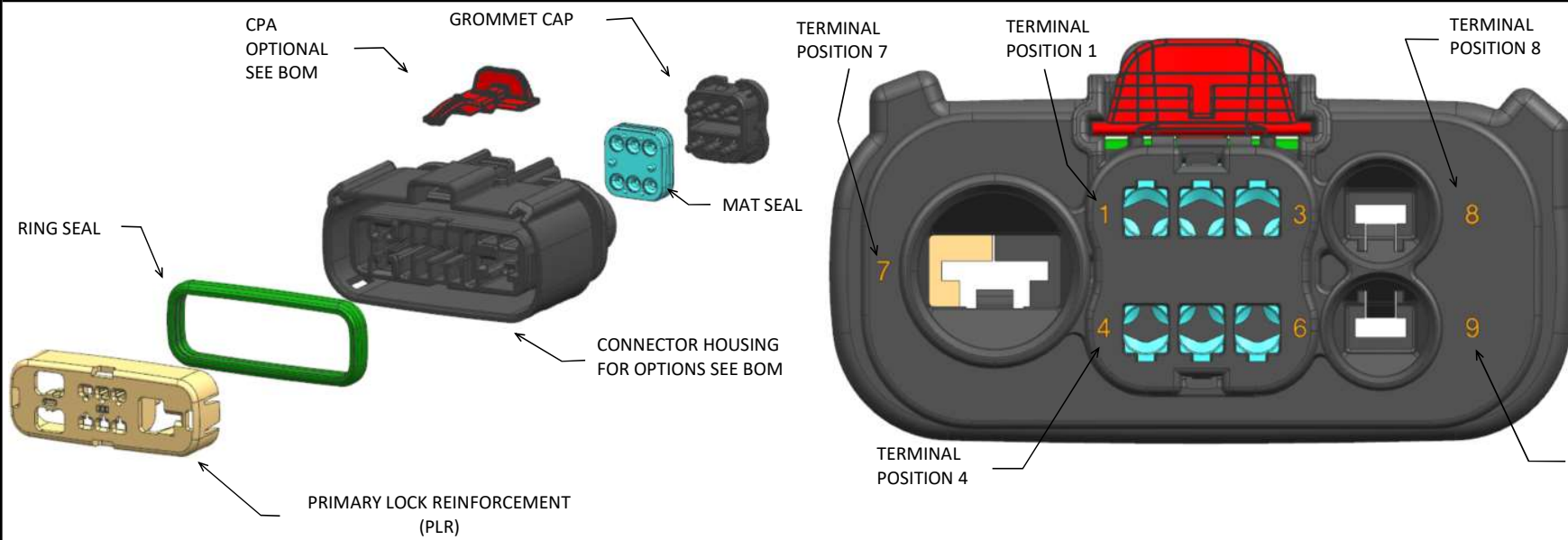
TERMINAL POSITION 9

RING SEAL

MAT SEAL

CONNECTOR HOUSING  
FOR OPTIONS SEE BOM

PRIMARY LOCK REINFORCEMENT  
(PLR)

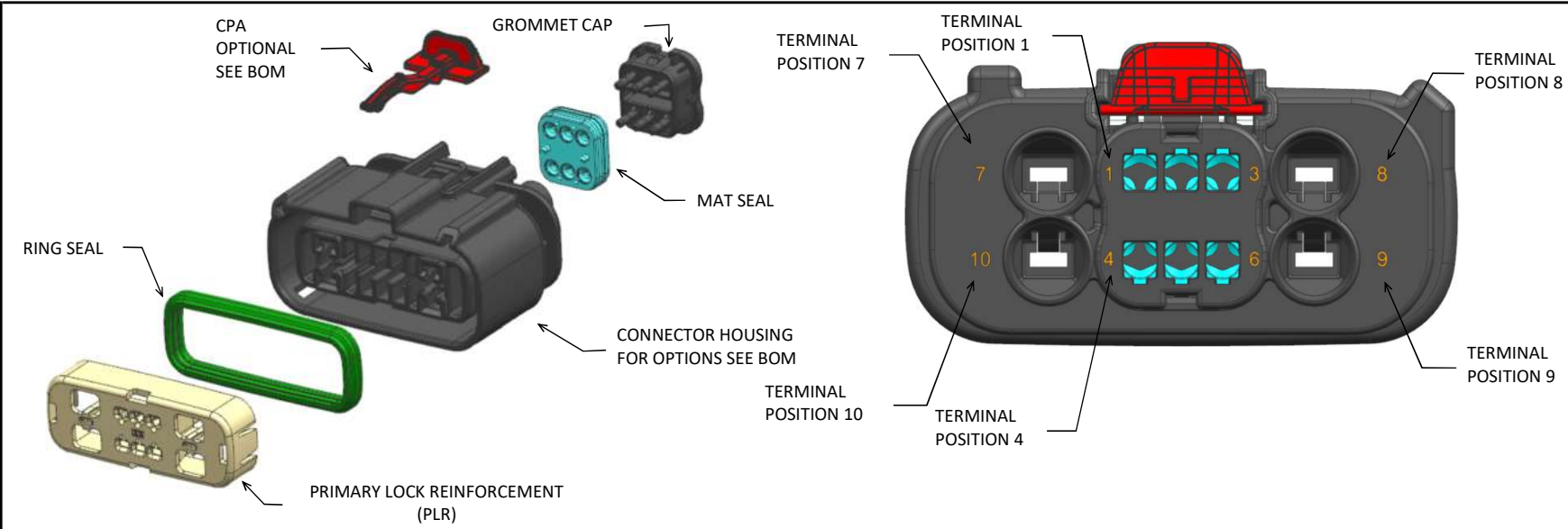


| ABBREVIATION | DESCRIPTION                           | COLOR      | MATERIAL                       |
|--------------|---------------------------------------|------------|--------------------------------|
| A1-BLK       | HOUSING KEYING OPTION A               | BLACK      | PA6 GF40                       |
| B1-LG        | HOUSING KEYING OPTION B               | LIGHT GRAY | PA6 GF40                       |
| C1-DG        | HOUSING KEYING OPTION C               | DARK GRAY  | PA6 GF40                       |
| D1-SG        | HOUSING KEYING OPTION D               | STONE GRAY | PA6 GF40                       |
| A1-BLK-CLIP  | HOUSING KEYING OPTION A WITH CLIPSLOT | BLACK      | PA6 GF40                       |
| B1-LG-CLIP   | HOUSING KEYING OPTION B WITH CLIPSLOT | LIGHT GRAY | PA6 GF40                       |
| C1-DG-CLIP   | HOUSING KEYING OPTION C WITH CLIPSLOT | DARK GRAY  | PA6 GF40                       |
| D1-SG-CLIP   | HOUSING KEYING OPTION D WITH CLIPSLOT | STONE GRAY | PA6 GF40                       |
| GCP          | GROMMET CAP (PLUGGED)                 | BLACK      | PA6 GF40                       |
| GCO          | GROMMET CAP (OPEN)                    | BLACK      | PA6 GF40                       |
| PLR          | PLR                                   | NATURAL    | PA6 GF40                       |
| CPA          | CPA                                   | RED        | PBT GF30                       |
| M            | MAT SEAL                              | LIGHT BLUE | INHERENTLY LUBRICATED SILICONE |
| R            | RING SEAL                             | GREEN      | INHERENTLY LUBRICATED SILICONE |

FOR ADDITIONAL INFORMATION SEE SD-160076-0001

| ASSEMBLY DESCRIPTION                    | ASSEMBLY PART NUMBER | COMPONENT                                                                 |             |     |     |          |           | BLOCKED TERMINALS                                                                                                    |   |   |   |   |   |   |   |   | STATUS   | COMMENTS | OPTIONAL ATTATCHMENTS SOLD SEPERATELY |                        |
|-----------------------------------------|----------------------|---------------------------------------------------------------------------|-------------|-----|-----|----------|-----------|----------------------------------------------------------------------------------------------------------------------|---|---|---|---|---|---|---|---|----------|----------|---------------------------------------|------------------------|
|                                         |                      | THE PRESENCE OF AN ABBREVIATION INDICATES THE PRESENCE OF THAT COMPONENT. |             |     |     |          |           | CAVITY WITH A NUMBER INDICATES BLOCKED TERMINAL POSITION<br>CAVITY WITHOUT A NUMBER INDICATES OPEN TERMINAL POSITION |   |   |   |   |   |   |   |   |          |          | BACKSHELL WITH RIBS                   | BACKSHELL WITHOUT RIBS |
|                                         |                      | HOUSING KEY/COLOR                                                         | GROMMET CAP | PLR | CPA | MAT SEAL | RING SEAL | 1                                                                                                                    | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |          |          |                                       |                        |
| KEY A, BLACK, W/O CPA                   | 160080-3001          | A1-BLK                                                                    | GCO         | PLR |     | M        | R         |                                                                                                                      |   |   |   |   |   |   |   |   | SALEABLE |          | TBD                                   | TBD                    |
| KEY B, LIGHT GRAY, W/O CPA              | 160080-3002          | B1-LG                                                                     | GCO         | PLR |     | M        | R         |                                                                                                                      |   |   |   |   |   |   |   |   | SALEABLE |          | TBD                                   | TBD                    |
| KEY C, DARK GRAY, W/O CPA               | 160080-3003          | C1-DG                                                                     | GCO         | PLR |     | M        | R         |                                                                                                                      |   |   |   |   |   |   |   |   | SALEABLE |          | TBD                                   | TBD                    |
| KEY D, STONE GRAY, W/O CPA              | 160080-3004          | D1-SG                                                                     | GCO         | PLR |     | M        | R         |                                                                                                                      |   |   |   |   |   |   |   |   | SALEABLE |          | TBD                                   | TBD                    |
| VOID KEY                                | 160080-3005          |                                                                           |             |     |     |          |           |                                                                                                                      |   |   |   |   |   |   |   |   |          |          |                                       |                        |
| KEY A, BLACK, W/ CPA                    | 160080-3006          | A1-BLK                                                                    | GCO         | PLR | CPA | M        | R         |                                                                                                                      |   |   |   |   |   |   |   |   | SALEABLE |          | TBD                                   | TBD                    |
| KEY B, LIGHT GRAY, W/ CPA               | 160080-3007          | B1-LG                                                                     | GCO         | PLR | CPA | M        | R         |                                                                                                                      |   |   |   |   |   |   |   |   | SALEABLE |          | TBD                                   | TBD                    |
| KEY C, DARK GRAY, W/ CPA                | 160080-3008          | C1-DG                                                                     | GCO         | PLR | CPA | M        | R         |                                                                                                                      |   |   |   |   |   |   |   |   | SALEABLE |          | TBD                                   | TBD                    |
| KEY D, STONE GRAY, W/ CPA               | 160080-3009          | D1-SG                                                                     | GCO         | PLR | CPA | M        | R         |                                                                                                                      |   |   |   |   |   |   |   |   | SALEABLE |          | TBD                                   | TBD                    |
| VOID KEY                                | 160080-3010          |                                                                           |             |     |     |          |           |                                                                                                                      |   |   |   |   |   |   |   |   |          |          |                                       |                        |
| KEY A, BLACK, W/ CLIPSLOT, W/O CPA      | 160080-3011          | A1-BLK-CLIP                                                               | GCO         | PLR |     | M        | R         |                                                                                                                      |   |   |   |   |   |   |   |   | SALEABLE |          | TBD                                   | TBD                    |
| KEY B, LIGHT GRAY, W/ CLIPSLOT, W/O CPA | 160080-3012          | B1-LG-CLIP                                                                | GCO         | PLR |     | M        | R         |                                                                                                                      |   |   |   |   |   |   |   |   | SALEABLE |          | TBD                                   | TBD                    |
| KEY C, DARK GRAY, W/ CLIPSLOT, W/O CPA  | 160080-3013          | C1-DG-CLIP                                                                | GCO         | PLR |     | M        | R         |                                                                                                                      |   |   |   |   |   |   |   |   | SALEABLE |          | TBD                                   | TBD                    |
| KEY D, STONE GRAY, W/ CLIPSLOT, W/O CPA | 160080-3014          | D1-SG-CLIP                                                                | GCO         | PLR |     | M        | R         |                                                                                                                      |   |   |   |   |   |   |   |   | SALEABLE |          | TBD                                   | TBD                    |
| VOID KEY                                | 160080-3015          |                                                                           |             |     |     |          |           |                                                                                                                      |   |   |   |   |   |   |   |   |          |          |                                       |                        |
| KEY A, BLACK, W/ CLIPSLOT, W/ CPA       | 160080-3016          | A1-BLK-CLIP                                                               | GCO         | PLR | CPA | M        | R         |                                                                                                                      |   |   |   |   |   |   |   |   | SALEABLE |          | TBD                                   | TBD                    |
| KEY B, LIGHT GRAY, W/ CLIPSLOT, W/ CPA  | 160080-3017          | B1-LG-CLIP                                                                | GCO         | PLR | CPA | M        | R         |                                                                                                                      |   |   |   |   |   |   |   |   | SALEABLE |          | TBD                                   | TBD                    |
| KEY C, DARK GRAY, W/ CLIPSLOT, W/ CPA   | 160080-3018          | C1-DG-CLIP                                                                | GCO         | PLR | CPA | M        | R         |                                                                                                                      |   |   |   |   |   |   |   |   | SALEABLE |          | TBD                                   | TBD                    |
| KEY D, STONE GRAY, W/ CLIPSLOT, W/ CPA  | 160080-3019          | D1-SG-CLIP                                                                | GCO         | PLR | CPA | M        | R         |                                                                                                                      |   |   |   |   |   |   |   |   | SALEABLE |          | TBD                                   | TBD                    |
| VOID KEY                                | 160080-3020          |                                                                           |             |     |     |          |           |                                                                                                                      |   |   |   |   |   |   |   |   |          |          |                                       |                        |
| KEY A, BLACK, W/ CPA                    | 160080-3021          | A1-BLK                                                                    | GCP         | PLR | CPA | M        | R         |                                                                                                                      |   |   |   |   |   |   |   | 9 | SALEABLE |          | TBD                                   | TBD                    |
| KEY A, BLACK, W/ CPA                    | 160080-3022          | A1-BLK                                                                    | GCP         | PLR | CPA | M        | R         |                                                                                                                      | 2 |   | 4 | 5 | 6 |   |   |   | SALEABLE |          | TBD                                   | TBD                    |
| KEY A, BLACK, W/ CPA                    | 160080-3023          | A1-BLK                                                                    | GCP         | PLR | CPA | M        | R         | 1                                                                                                                    |   | 3 | 4 | 5 | 6 |   |   |   | SALEABLE |          | TBD                                   | TBD                    |
| KEY A, BLACK, W/ CPA                    | 160080-3024          | A1-BLK                                                                    | GCP         | PLR | CPA | M        | R         | 1                                                                                                                    |   |   | 4 | 5 | 6 |   |   |   | SALEABLE |          | TBD                                   | TBD                    |

MX150 1.5/6.3 HYBRID 10 WAY RECEPTACLE SEALED ASSEMBLY MAT SEAL  
BOM AND PIN OUT SHEET



FOR ADDITIONAL INFORMATION SEE SD-160076-0001

| ABBREVIATION | DESCRIPTION                           | COLOR      | MATERIAL                       |
|--------------|---------------------------------------|------------|--------------------------------|
| A1-BLK       | HOUSING KEYING OPTION A               | BLACK      | PA6 GF40                       |
| B1-LG        | HOUSING KEYING OPTION B               | LIGHT GRAY | PA6 GF40                       |
| C1-DG        | HOUSING KEYING OPTION C               | DARK GRAY  | PA6 GF40                       |
| D1-SG        | HOUSING KEYING OPTION D               | STONE GRAY | PA6 GF40                       |
| A1-BLK-CLIP  | HOUSING KEYING OPTION A WITH CLIPSLOT | BLACK      | PA6 GF40                       |
| B1-LG-CLIP   | HOUSING KEYING OPTION B WITH CLIPSLOT | LIGHT GRAY | PA6 GF40                       |
| C1-DG-CLIP   | HOUSING KEYING OPTION C WITH CLIPSLOT | DARK GRAY  | PA6 GF40                       |
| D1-SG-CLIP   | HOUSING KEYING OPTION D WITH CLIPSLOT | STONE GRAY | PA6 GF40                       |
| GCP          | GROMMET CAP (PLUGGED)                 | BLACK      | PA6 GF40                       |
| GCO          | GROMMET CAP (OPEN)                    | BLACK      | PA6 GF40                       |
| PLR          | PLR                                   | NATURAL    | PA6 GF40                       |
| CPA          | CPA                                   | RED        | PBT GF30                       |
| M            | MAT SEAL                              | LIGHT BLUE | INHERENTLY LUBRICATED SILICONE |
| R            | RING SEAL                             | GREEN      | INHERENTLY LUBRICATED SILICONE |

| ASSEMBLY DESCRIPTION                    | ASSEMBLY PART NUMBER | COMPONENT                                                                 |             |     |     |          |           | BLOCKED TERMINALS                                                                                                    |   |   |   |   |   |   |   |   |    | STATUS   | COMMENTS | OPTIONAL ATTATCHMENTS SOLD SEPERATELY |                        |
|-----------------------------------------|----------------------|---------------------------------------------------------------------------|-------------|-----|-----|----------|-----------|----------------------------------------------------------------------------------------------------------------------|---|---|---|---|---|---|---|---|----|----------|----------|---------------------------------------|------------------------|
|                                         |                      | THE PRESENCE OF AN ABBREVIATION INDICATES THE PRESENCE OF THAT COMPONENT. |             |     |     |          |           | CAVITY WITH A NUMBER INDICATES BLOCKED TERMINAL POSITION<br>CAVITY WITHOUT A NUMBER INDICATES OPEN TERMINAL POSITION |   |   |   |   |   |   |   |   |    |          |          | BACKSHELL WITH RIBS                   | BACKSHELL WITHOUT RIBS |
|                                         |                      | HOUSING KEY/COLOR                                                         | GROMMET CAP | PLR | CPA | MAT SEAL | RING SEAL | 1                                                                                                                    | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |          |          |                                       |                        |
| KEY A, BLACK, W/O CPA                   | 160076-5001          | A1-BLK                                                                    | GCO         | PLR |     | M        | R         |                                                                                                                      |   |   |   |   |   |   |   |   |    | SALEABLE |          | TBD                                   | TBD                    |
| KEY B, LIGHT GRAY, W/O CPA              | 160076-5002          | B1-LG                                                                     | GCO         | PLR |     | M        | R         |                                                                                                                      |   |   |   |   |   |   |   |   |    | SALEABLE |          | TBD                                   | TBD                    |
| KEY C, DARK GRAY, W/O CPA               | 160076-5003          | C1-DG                                                                     | GCO         | PLR |     | M        | R         |                                                                                                                      |   |   |   |   |   |   |   |   |    | SALEABLE |          | TBD                                   | TBD                    |
| KEY D, STONE GRAY, W/O CPA              | 160076-5004          | D1-SG                                                                     | GCO         | PLR |     | M        | R         |                                                                                                                      |   |   |   |   |   |   |   |   |    | SALEABLE |          | TBD                                   | TBD                    |
| VOID KEY                                | 160076-5005          |                                                                           |             |     |     |          |           |                                                                                                                      |   |   |   |   |   |   |   |   |    |          |          |                                       |                        |
| KEY A, BLACK, W/ CPA                    | 160076-5006          | A1-BLK                                                                    | GCO         | PLR | CPA | M        | R         |                                                                                                                      |   |   |   |   |   |   |   |   |    | SALEABLE |          | TBD                                   | TBD                    |
| KEY B, LIGHT GRAY, W/ CPA               | 160076-5007          | B1-LG                                                                     | GCO         | PLR | CPA | M        | R         |                                                                                                                      |   |   |   |   |   |   |   |   |    | SALEABLE |          | TBD                                   | TBD                    |
| KEY C, DARK GRAY, W/ CPA                | 160076-5008          | C1-DG                                                                     | GCO         | PLR | CPA | M        | R         |                                                                                                                      |   |   |   |   |   |   |   |   |    | SALEABLE |          | TBD                                   | TBD                    |
| KEY D, STONE GRAY, W/ CPA               | 160076-5009          | D1-SG                                                                     | GCO         | PLR | CPA | M        | R         |                                                                                                                      |   |   |   |   |   |   |   |   |    | SALEABLE |          | TBD                                   | TBD                    |
| VOID KEY                                | 160076-5010          |                                                                           |             |     |     |          |           |                                                                                                                      |   |   |   |   |   |   |   |   |    |          |          |                                       |                        |
| KEY A, BLACK, W/ CLIPSLOT, W/O CPA      | 160076-5011          | A1-BLK-CLIP                                                               | GCO         | PLR |     | M        | R         |                                                                                                                      |   |   |   |   |   |   |   |   |    | SALEABLE |          | TBD                                   | TBD                    |
| KEY B, LIGHT GRAY, W/ CLIPSLOT, W/O CPA | 160076-5012          | B1-LG-CLIP                                                                | GCO         | PLR |     | M        | R         |                                                                                                                      |   |   |   |   |   |   |   |   |    | SALEABLE |          | TBD                                   | TBD                    |
| KEY C, DARK GRAY, W/ CLIPSLOT, W/O CPA  | 160076-5013          | C1-DG-CLIP                                                                | GCO         | PLR |     | M        | R         |                                                                                                                      |   |   |   |   |   |   |   |   |    | SALEABLE |          | TBD                                   | TBD                    |
| KEY D, STONE GRAY, W/ CLIPSLOT, W/O CPA | 160076-5014          | D1-SG-CLIP                                                                | GCO         | PLR |     | M        | R         |                                                                                                                      |   |   |   |   |   |   |   |   |    | SALEABLE |          | TBD                                   | TBD                    |
| VOID KEY                                | 160076-5015          |                                                                           |             |     |     |          |           |                                                                                                                      |   |   |   |   |   |   |   |   |    |          |          |                                       |                        |
| KEY A, BLACK, W/ CLIPSLOT, W/ CPA       | 160076-5016          | A1-BLK-CLIP                                                               | GCO         | PLR | CPA | M        | R         |                                                                                                                      |   |   |   |   |   |   |   |   |    | SALEABLE |          | TBD                                   | TBD                    |
| KEY B, LIGHT GRAY, W/ CLIPSLOT, W/ CPA  | 160076-5017          | B1-LG-CLIP                                                                | GCO         | PLR | CPA | M        | R         |                                                                                                                      |   |   |   |   |   |   |   |   |    | SALEABLE |          | TBD                                   | TBD                    |
| KEY C, DARK GRAY, W/ CLIPSLOT, W/ CPA   | 160076-5018          | C1-DG-CLIP                                                                | GCO         | PLR | CPA | M        | R         |                                                                                                                      |   |   |   |   |   |   |   |   |    | SALEABLE |          | TBD                                   | TBD                    |
| KEY D, STONE GRAY, W/ CLIPSLOT, W/ CPA  | 160076-5019          | D1-SG-CLIP                                                                | GCO         | PLR | CPA | M        | R         |                                                                                                                      |   |   |   |   |   |   |   |   |    | SALEABLE |          | TBD                                   | TBD                    |
| VOID KEY                                | 160076-5020          |                                                                           |             |     |     |          |           |                                                                                                                      |   |   |   |   |   |   |   |   |    |          |          |                                       |                        |
| KEY A, BLACK, W/ CPA                    | 160076-5021          | A1-BLK                                                                    | GCP         | PLR | CPA | M        | R         |                                                                                                                      |   |   |   |   |   | 7 |   |   |    | SALEABLE |          | TBD                                   | TBD                    |
| KEY A, BLACK, W/ CPA                    | 160076-5022          | A1-BLK                                                                    | GCP         | PLR | CPA | M        | R         |                                                                                                                      |   |   |   |   |   |   |   | 9 | 10 | SALEABLE |          | TBD                                   | TBD                    |
| KEY A, BLACK, W/ CPA                    | 160076-5023          | A1-BLK                                                                    | GCP         | PLR | CPA | M        | R         |                                                                                                                      |   |   |   |   |   | 7 | 8 | 9 |    | SALEABLE |          | TBD                                   | TBD                    |
| KEY A, BLACK, W/ CPA                    | 160076-5024          | A1-BLK                                                                    | GCP         | PLR | CPA | M        | R         |                                                                                                                      |   |   |   |   |   | 7 | 8 |   | 10 | SALEABLE |          | TBD                                   | TBD                    |
| KEY A, BLACK, W/ CPA                    | 160076-5025          | A1-BLK                                                                    | GCP         | PLR | CPA | M        | R         | 1                                                                                                                    |   | 3 |   | 5 |   |   |   |   |    | SALEABLE |          | TBD                                   | TBD                    |
| KEY A, BLACK, W/ CPA                    | 160076-5026          | A1-BLK                                                                    | GCP         | PLR | CPA | M        | R         |                                                                                                                      | 2 |   | 4 |   | 6 |   |   |   |    | SALEABLE |          | TBD                                   | TBD                    |
| KEY B, LIGHT GRAY, W/ CPA               | 160076-5027          | B1-LG                                                                     | GCP         | PLR | CPA | M        | R         | 1                                                                                                                    | 2 | 3 |   | 5 |   |   |   |   |    | SALEABLE |          | TBD                                   | TBD                    |
| KEY A, BLACK, W/ CPA                    | 160076-5028          | A1-BLK                                                                    | GCP         | PLR | CPA | M        | R         | 1                                                                                                                    | 2 | 3 |   | 5 |   |   |   |   |    | SALEABLE |          | TBD                                   | TBD                    |