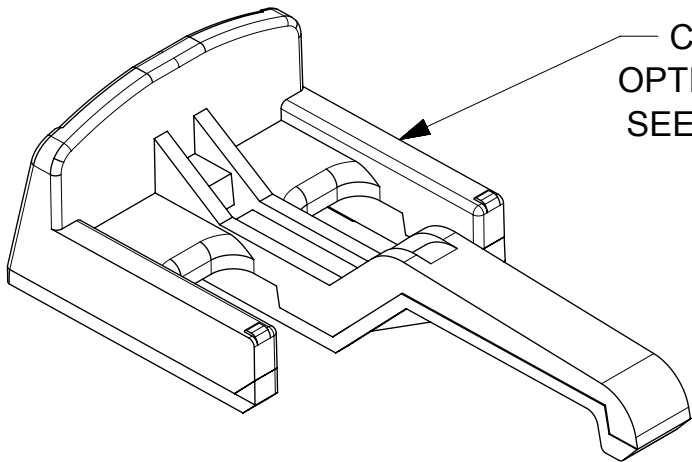
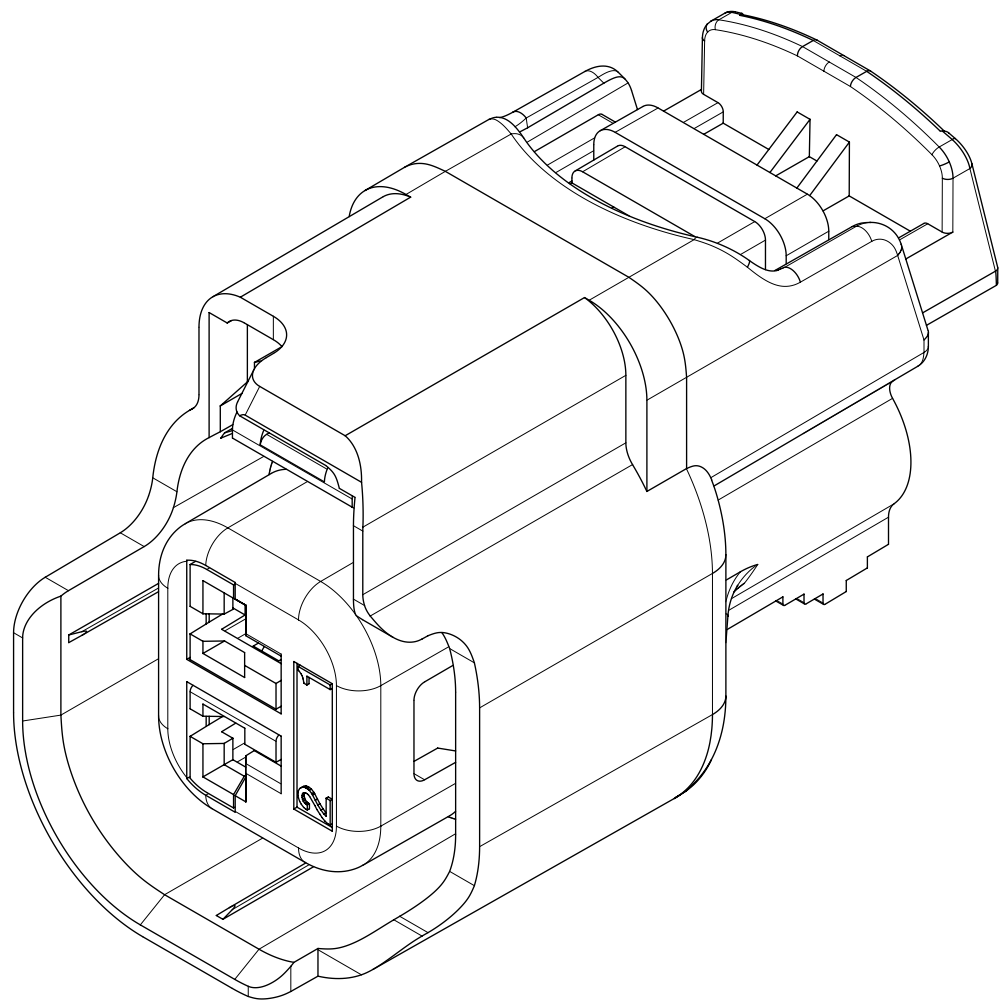
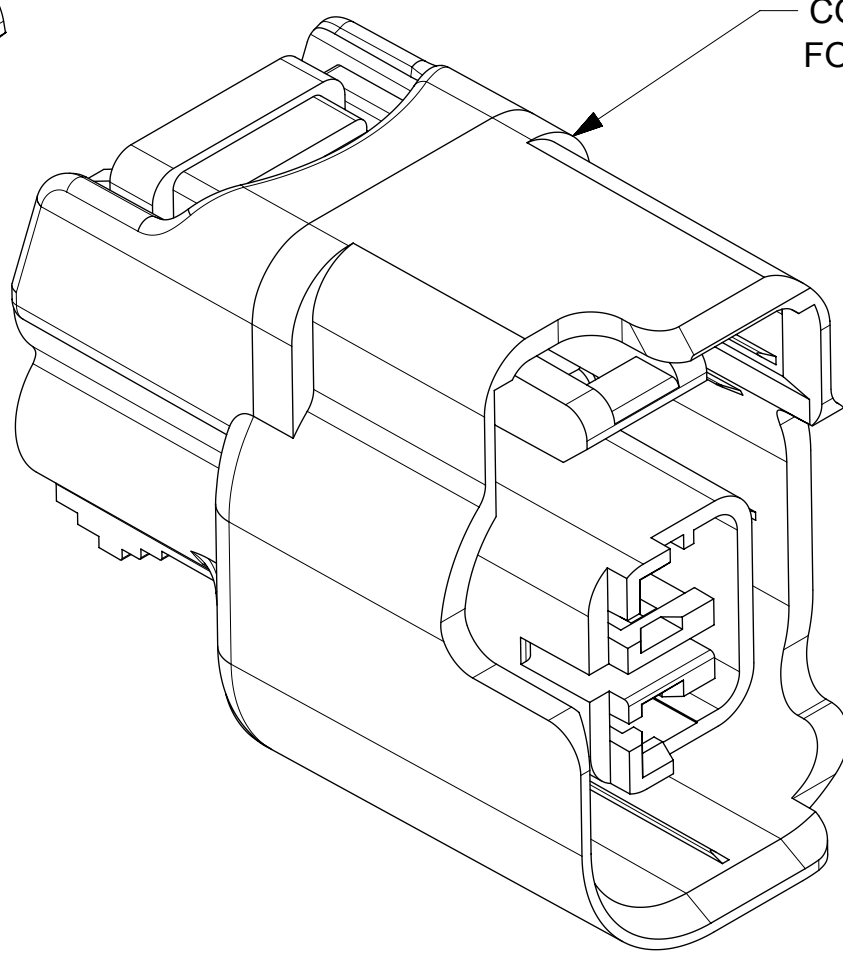
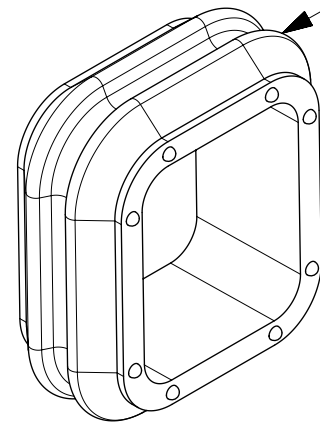




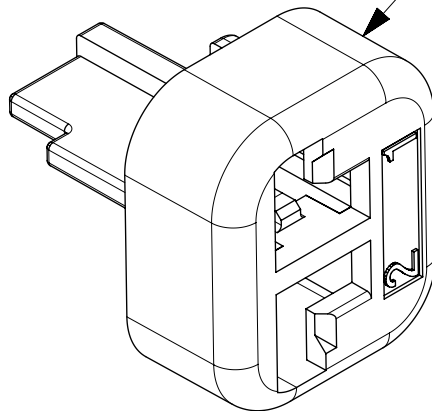
CPA  
OPTIONAL  
SEE BOM



CONNECTOR HOUSING  
FOR OPTIONS SEE BOM



RING SEAL  
FOR OPTIONS  
SEE BOM



TPA

| TABLE OF CONTENTS |                               |
|-------------------|-------------------------------|
| SHEET NO.         | SHEET DESCRIPTION             |
| 1                 | NOTES                         |
| 2, 3              | CONFIGURATIONS                |
| 4                 | RECEPTACLE CONNECTOR ASSEMBLY |
| 5                 | MOLEX INTERFACE               |

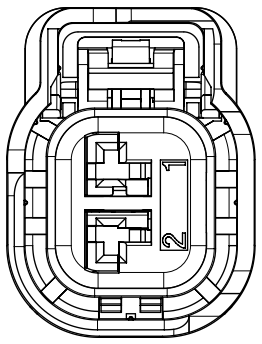
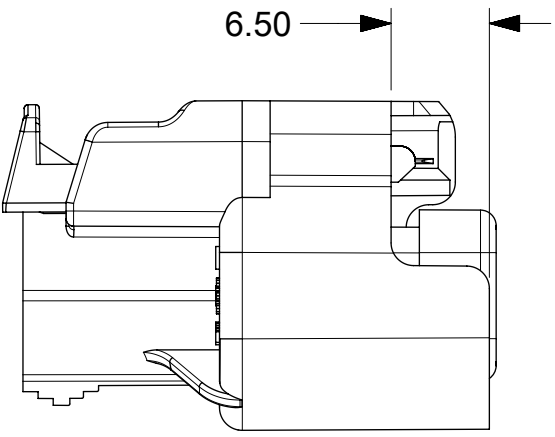
NOTES: VALID UNLESS OTHERWISE SPECIFIED

- GENERAL:
  - APPLICATION SPECIFICATION SEE: AS-34062-000  
-CONTAINS: PRODUCT INTRODUCTION, PRODUCT SUMMARY, CONNECTOR ASSEMBLY, PACKAGING INFORMATION, CONNECTOR MATING, SERVICE INSTRUCTIONS, ELECTRICAL CONTINUITY CHECKING, CRIMPING, AND TROUBLESHOOTING.  
-DESIGNED TO MATE WITH DEVICE CONNECTION AS SPECIFIED IN DRAWING EWCAP 150-S-002-1-Z01. AVAILIBLE AT <http://ewcap.uscarteams.org/>.  
-DESIGNED TO MATE WITH BLADE SEALED ASSEMBLY AS SPECIFIED IN DRAWING: SD-34675-001  
-ASSEMBLY SHIPPED WITH TPA IN PRE-LOCK (SEE TPA PRE-LOCK VIEW IN SHEET 4)
  - PRODUCT SPECIFICATION SEE: PS-34062-000  
CONTAINS: SCOPE, PRODUCT DESCRIPTION, INTEGRAL COMPONENTS AND ACCESSORIES, APPLICABLE DOCUMENTS AND SPECIFICATIONS, RATINGS, PERFORMANCE, PACKAGING, GAUGE AND FIXTURES, AND OTHER INFORMATION.
  - PACKAGING SPECIFICATION PER MOLEX DRAWING: PK-30907-879
  - PARTS MUST BE IN COMPLIANCE TO MOLEX CHEMICAL SUBSTANCES FOR PRODUCTS AND PACKAGING SPECIFICATION: QEHS-699000-301
  - DATA MUST BE SUBMITTED UNDER THE MOLEX PART NUMBER TO IMDS (COMPANY ID#13255)
- DESIGN - MATERIALS:
  - SEE BOM TABLE IN SD-34062-004
- DESIGN - GEOMETRY:
  - 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.
  - GEOMETRIC DIMENSIONS AND TOLERANCES PER ASME Y14.5M - 1994
  - EDGES AND UNDIMENSIONED DETAILS PER ISO13715
  - CORNERS SHOWN AS SHARP TO BE R 0.2 MAX.
  - LETTERING SHALL BE 0.15 MAX RAISED IN 0.25 MAX RECESS PAD. THIS INCLUDES RECYCLING CODE, CAVITY ID, VENDOR IDENTIFICATION, AND CUSTOMER MATERIAL NUMBER.
  - VISUAL DEFECTS SHALL MEET COSMETIC STANDARD PS-45499-002 (Class B)
  - LASER MARKING: TBD

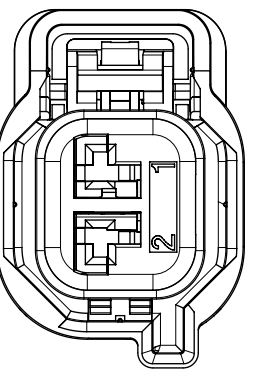
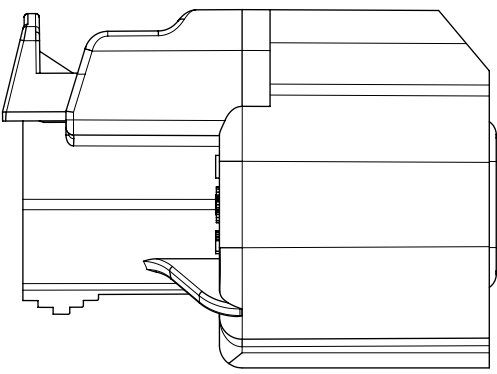
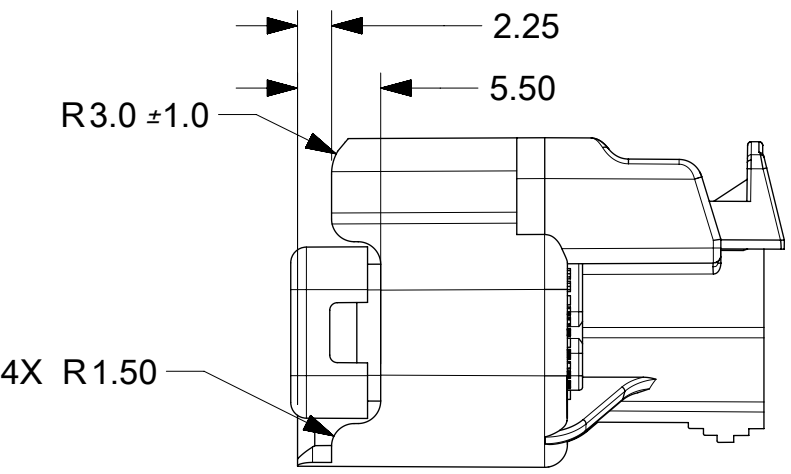
| INSPECTION BALLOON NUMBER LOG                                                       |  |  |  |  |  |  |  |  |  |
|-------------------------------------------------------------------------------------|--|--|--|--|--|--|--|--|--|
| PER DRAWING REVISION: J18                                                           |  |  |  |  |  |  |  |  |  |
| LAST BALLOON NUMBER USED: ICD 64                                                    |  |  |  |  |  |  |  |  |  |
| ADDED BALLOON NUMBERS: ICD 64                                                       |  |  |  |  |  |  |  |  |  |
| REMOVED BALLOON NUMBERS: ICD 7, ICD 8, ICD 9,ICD 18, ICD 19, ICD 20, ICD 41, ICD 42 |  |  |  |  |  |  |  |  |  |

| QUALITY SYMBOLS |     | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION |                          |                                       |                                                      |                 |                        |          |                          |                 |                |  |  |
|-----------------|-----|-----------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|---------------------------------------|------------------------------------------------------|-----------------|------------------------|----------|--------------------------|-----------------|----------------|--|--|
|                 | = 0 | EC NO: 117955<br>DRWN: PKABBUR<br>CHKD: KDEKOSKI<br>REV: APPR: KDEKOSKI                                                                       | 2017/05/15<br>2017/06/14 | GENERAL TOLERANCES (UNLESS SPECIFIED) | DIMENSION UNITS                                      |                 | SCALE                  |          |                          |                 |                |  |  |
|                 | = 0 |                                                                                                                                               |                          |                                       | MM                                                   |                 | 4:1                    |          |                          |                 |                |  |  |
|                 | = 0 |                                                                                                                                               |                          |                                       | DRWN BY                                              |                 | DATE                   |          |                          |                 |                |  |  |
|                 | = 0 |                                                                                                                                               |                          |                                       | KCUNNINGHAM                                          |                 | 2011/11/08             |          |                          |                 |                |  |  |
|                 | = 0 |                                                                                                                                               |                          |                                       | CHK'D BY                                             |                 | DATE                   |          |                          |                 |                |  |  |
|                 | = 0 |                                                                                                                                               |                          |                                       | MVANSLAMBROU                                         |                 | 1/26/2012              |          |                          |                 |                |  |  |
|                 | = 0 |                                                                                                                                               |                          |                                       | APPR BY                                              |                 | DATE                   |          | PRODUCT CUSTOMER DRAWING |                 |                |  |  |
|                 | = 0 |                                                                                                                                               |                          |                                       | KDEKOSKI                                             |                 | 2017/06/14             |          |                          |                 |                |  |  |
|                 | = 0 |                                                                                                                                               |                          |                                       | DRAWING SIZE                                         |                 | THIRD ANGLE PROJECTION |          | SERIES                   | MATERIAL NUMBER | CUSTOMER       |  |  |
|                 | = 0 |                                                                                                                                               |                          |                                       | DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS |                 |                        |          | 34062                    | SEE NOTE 2a     | GENERAL MARKET |  |  |
|                 |     | J19                                                                                                                                           | REV                      | APP                                   |                                                      | DOCUMENT NUMBER |                        | DOC TYPE | DOC PART                 | SHEET NUMBER    |                |  |  |
|                 |     |                                                                                                                                               |                          |                                       |                                                      | SD-34062-002    |                        | PSD      | 000                      | 1 OF 5          |                |  |  |

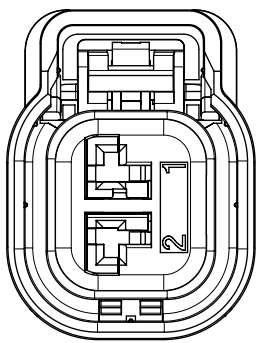
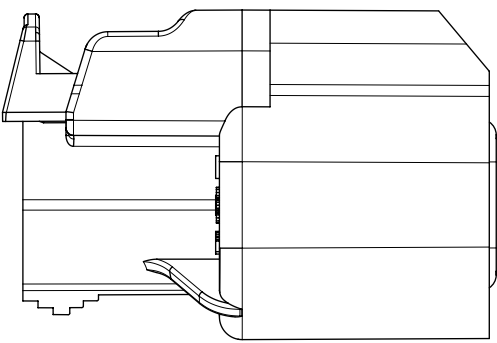
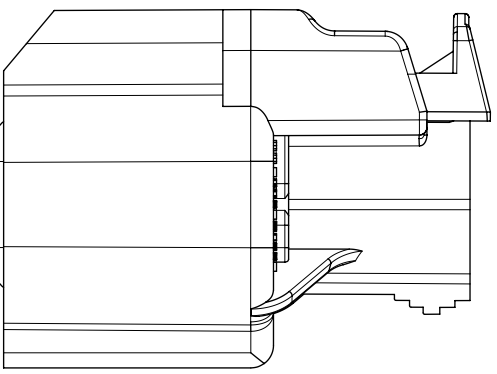
| SHEET DESCRIPTION |
|-------------------|
| CONFIGURATIONS    |



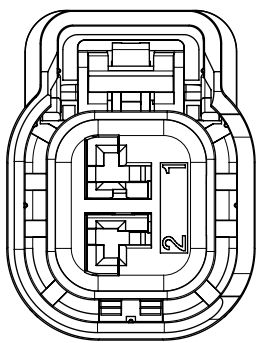
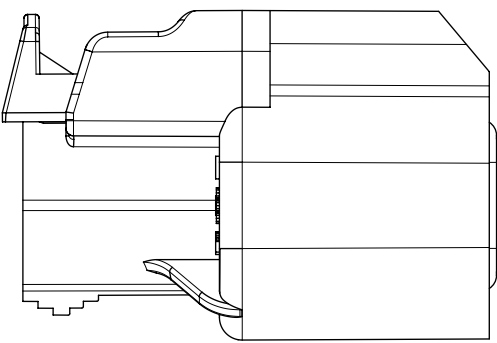
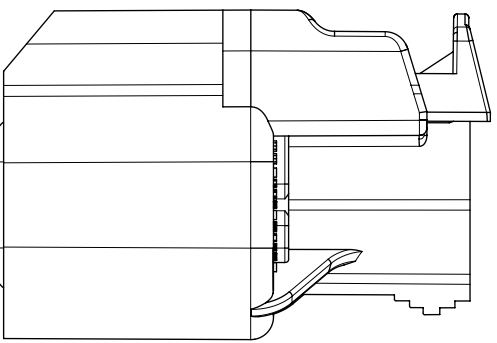
OPTION A



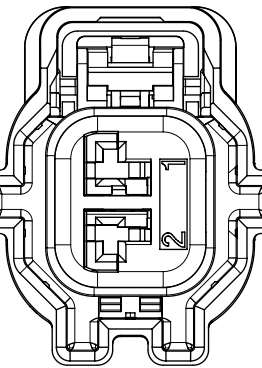
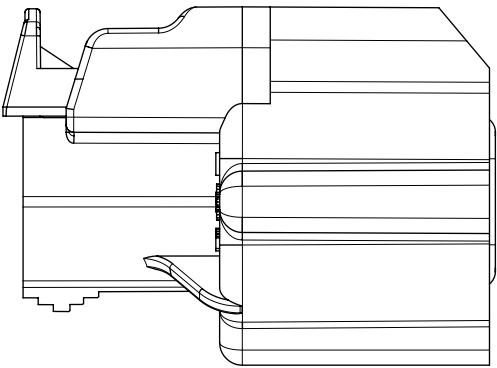
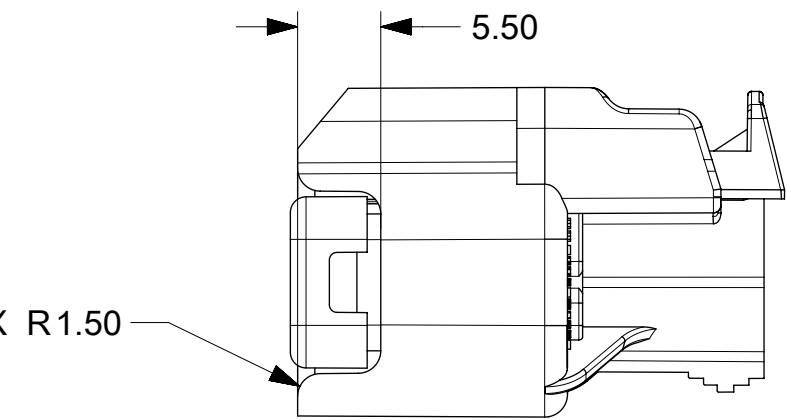
OPTION B



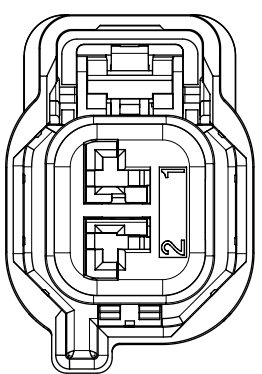
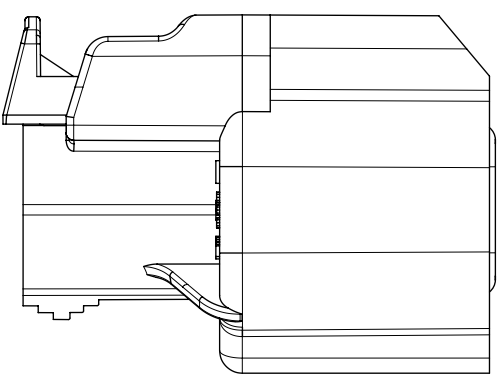
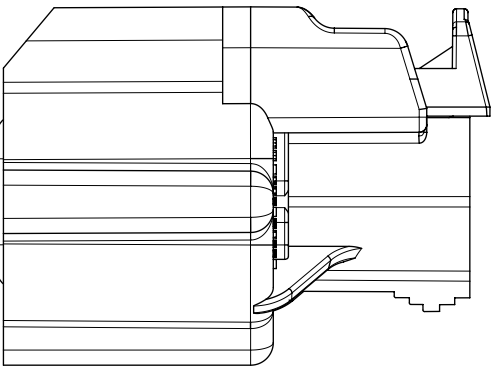
OPTION C



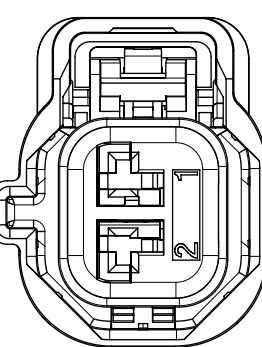
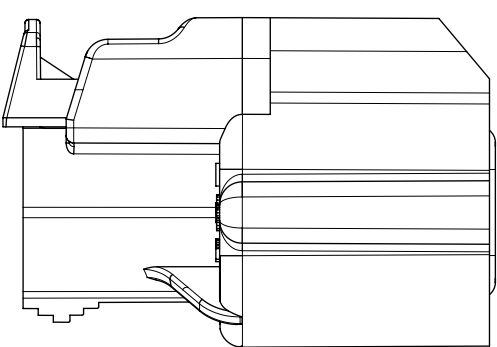
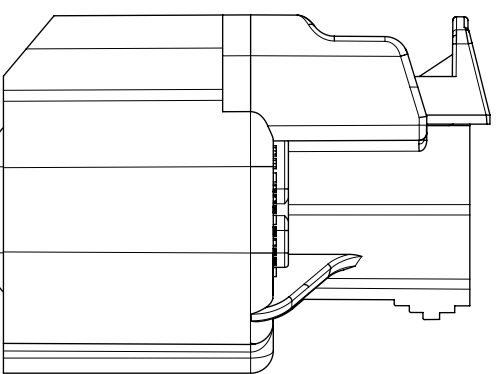
OPTION D



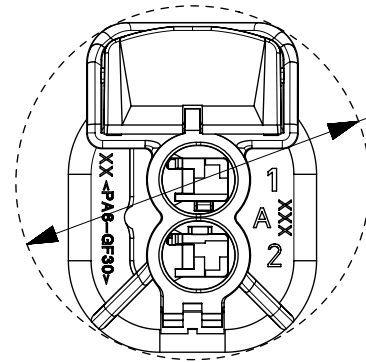
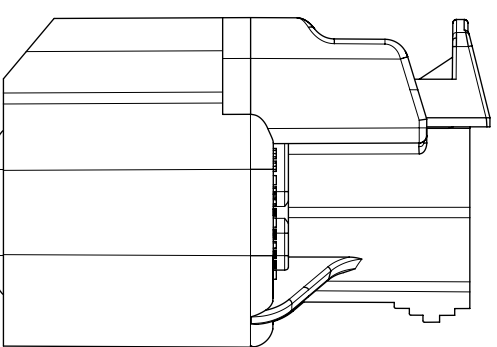
OPTION E



OPTION F

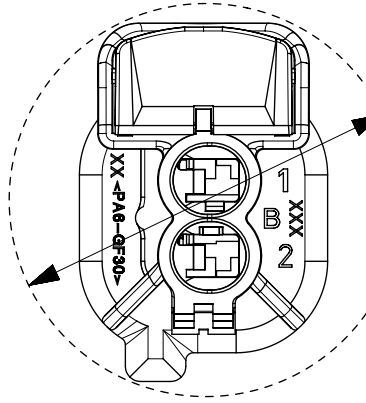


OPTION G



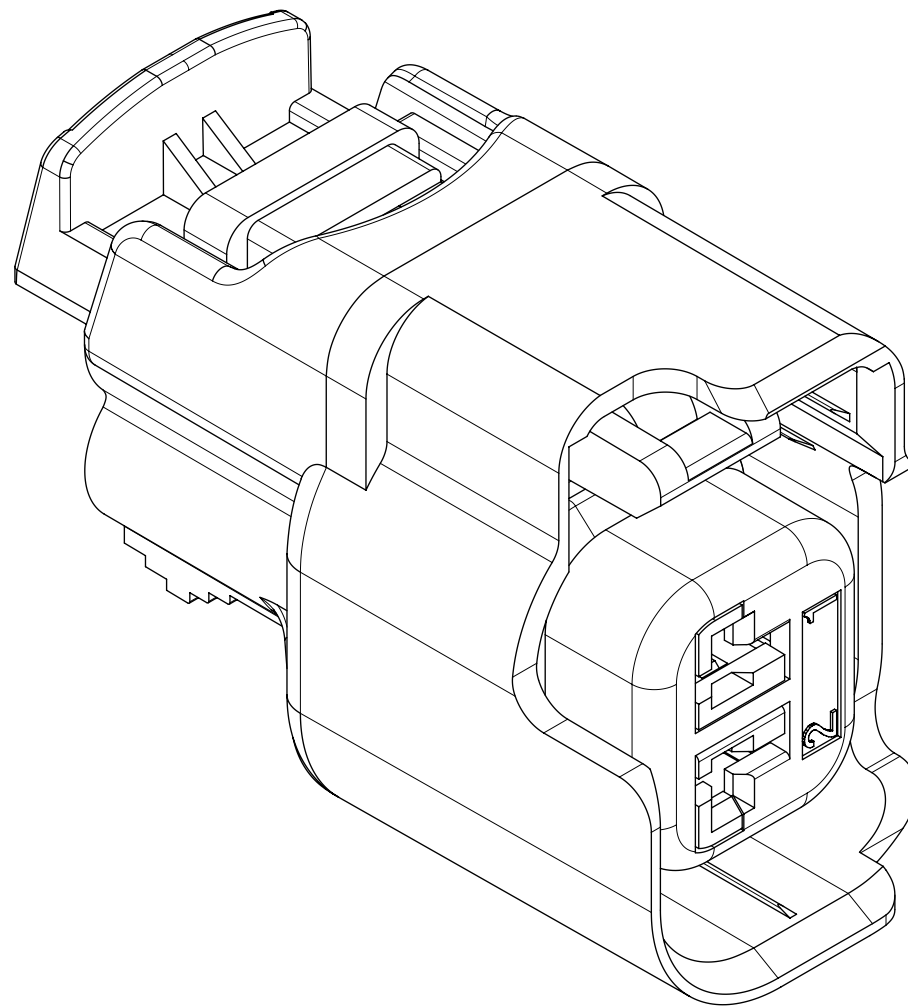
Ø23.40  
MINIMUM PASS-THRU WITH  
NO CLEARANCE  
APPLIES TO NON-CLIP SLOT  
OPTIONS A, C, D & G

REAR VIEW



Ø26.00  
MINIMUM PASS-THRU WITH  
NO CLEARANCE  
APPLIES TO NON-CLIP SLOT  
OPTIONS B, E & F

REAR VIEW



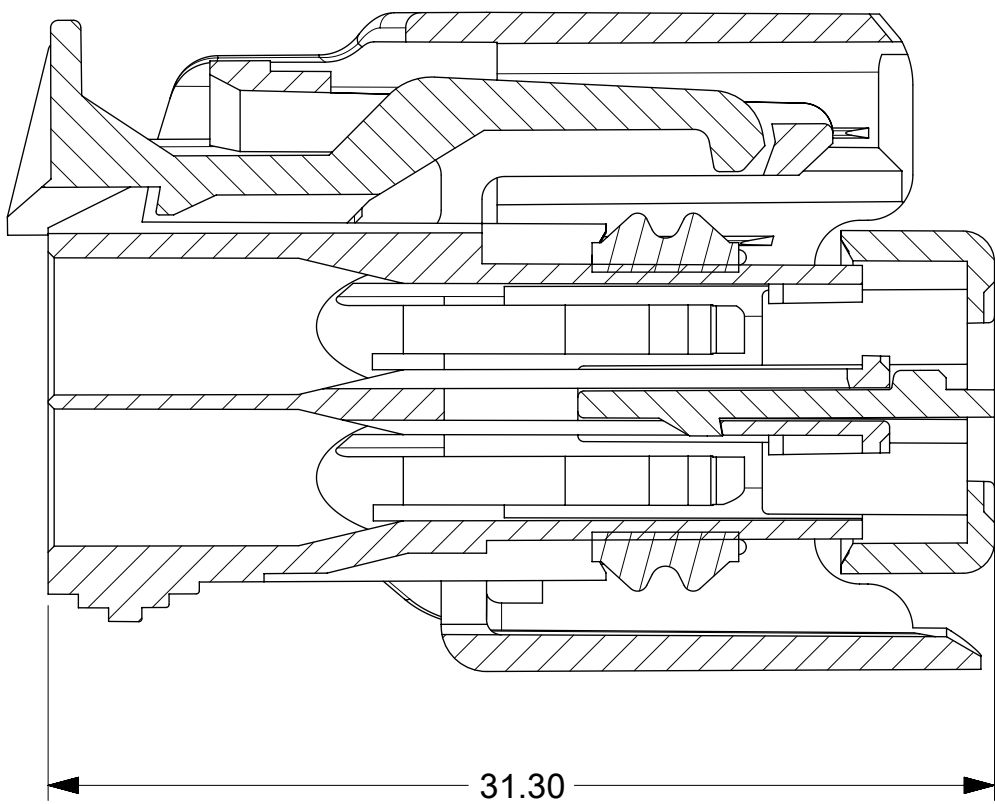
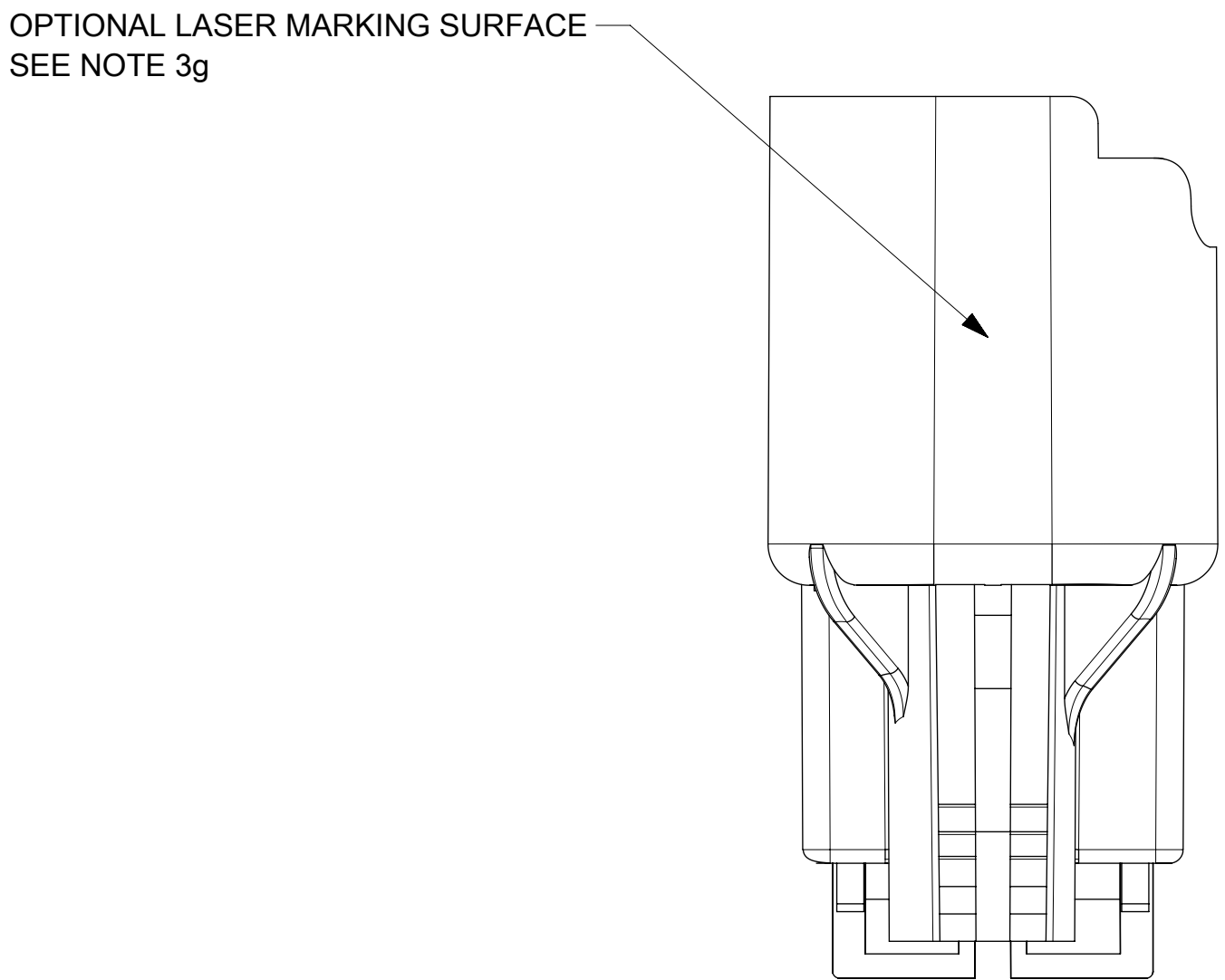
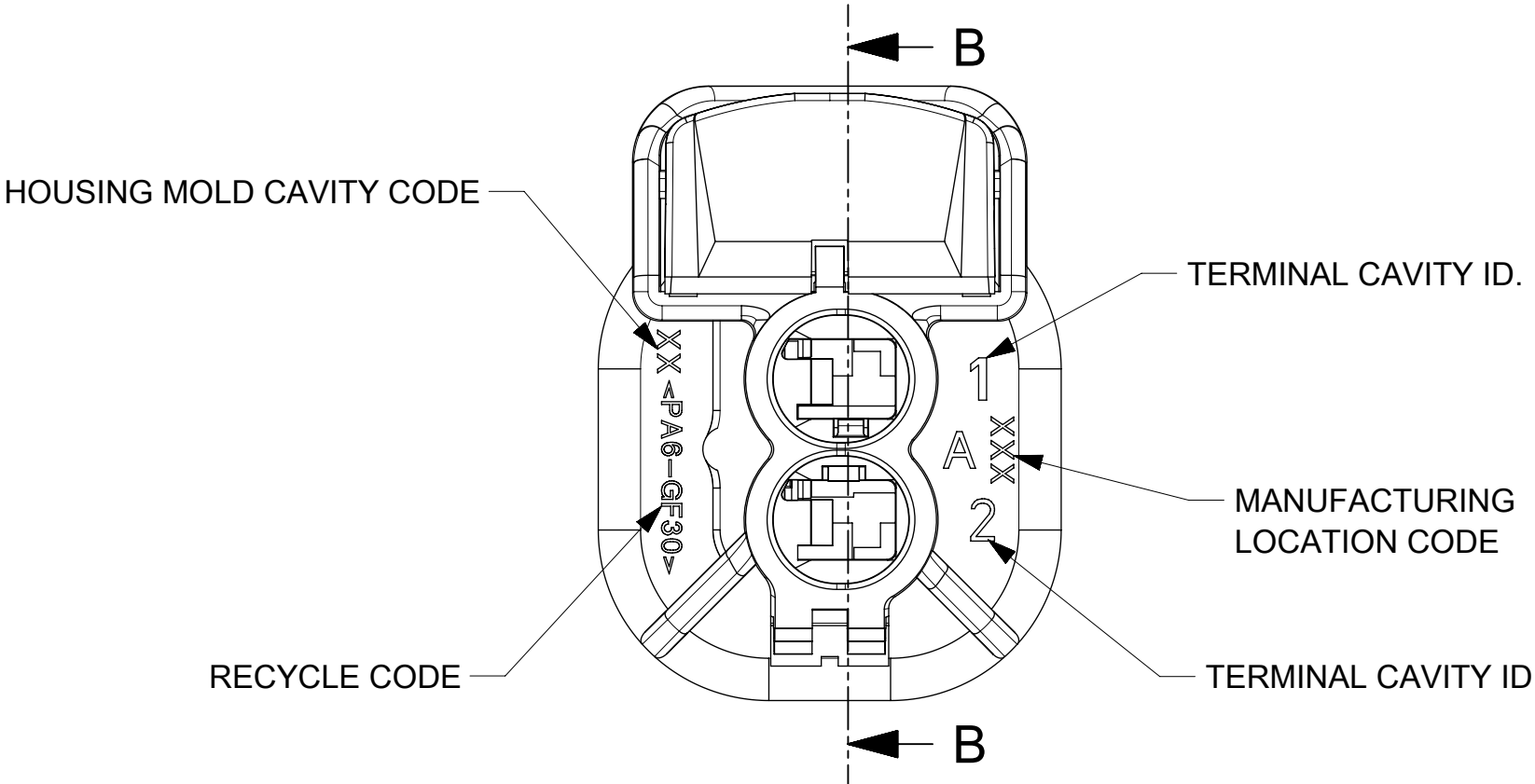
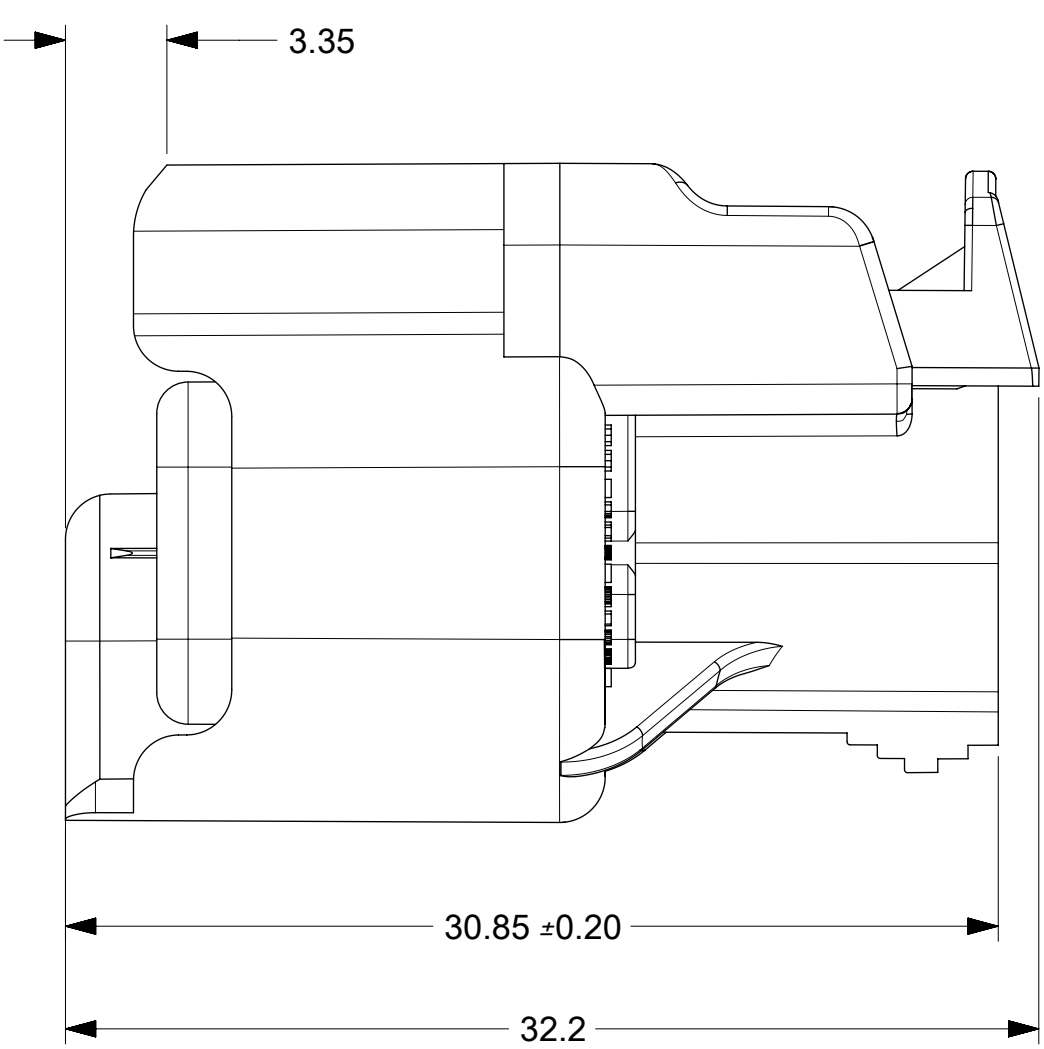
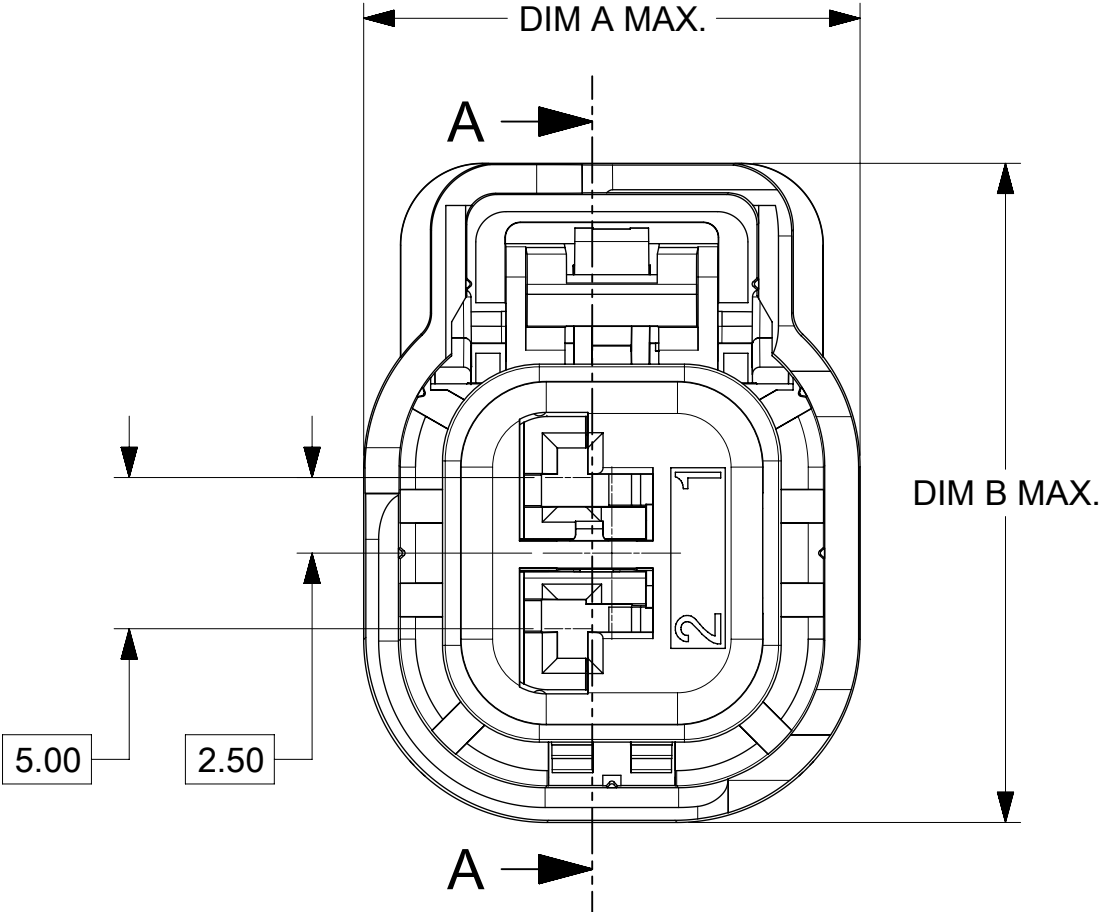
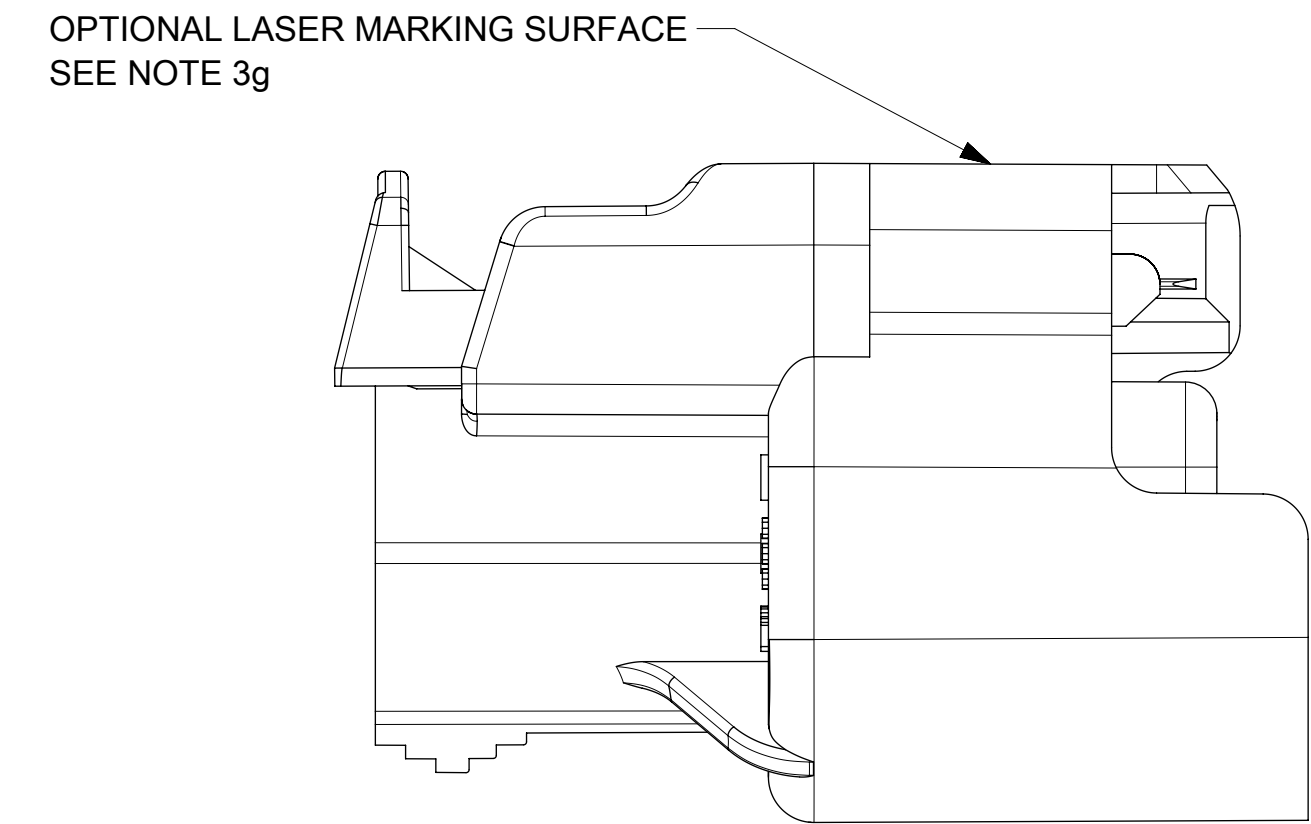
NON CLIP-SLOT OPTION  
SCALE 4:1

| THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION |     |                                                                                           |      |                                                            |     |                          |             |                        |                |                                                                                          |                 |          |     |
|-----------------------------------------------------------------------------------------------------------------------------------------------|-----|-------------------------------------------------------------------------------------------|------|------------------------------------------------------------|-----|--------------------------|-------------|------------------------|----------------|------------------------------------------------------------------------------------------|-----------------|----------|-----|
| QUALITY SYMBOLS                                                                                                                               |     | 2017/05/15<br>2017/06/14<br><br>EC NO: 117955<br>DRWN: PKABBUR<br>CHKD:<br>APPR: KDEKOSKI |      | GENERAL TOLERANCES (UNLESS SPECIFIED)                      |     | DIMENSION UNITS          |             | SCALE                  |                | <div>molex®</div><br><br>MX150 2 WAY CABLE SEAL<br>RECEPTACLE CONN. SYSTEM (5.0MM PITCH) |                 |          |     |
| = 0                                                                                                                                           | = 0 |                                                                                           |      | = 0                                                        | = 0 | = 0                      | = 0         | = 0                    | = 0            |                                                                                          |                 | MM       | 2:1 |
| ANGULAR TOL ± 3.0 °                                                                                                                           |     |                                                                                           |      | DRWN BY                                                    |     | DATE                     |             |                        |                |                                                                                          |                 |          |     |
| 4 PLACES ±                                                                                                                                    |     |                                                                                           |      | KCUNNINGHAM                                                |     | 2011/11/08               |             |                        |                |                                                                                          |                 |          |     |
| 3 PLACES ±                                                                                                                                    |     |                                                                                           |      | CHK'D BY                                                   |     | DATE                     |             |                        |                |                                                                                          |                 |          |     |
| 2 PLACES ± 0.1                                                                                                                                |     |                                                                                           |      | MVANSLAMBROU                                               |     | 1/26/2012                |             |                        |                |                                                                                          |                 |          |     |
| 1 PLACE ± 0.3                                                                                                                                 |     |                                                                                           |      | APPR BY                                                    |     | DATE                     |             |                        |                |                                                                                          |                 |          |     |
| 0 PLACES ±                                                                                                                                    |     | KDEKOSKI                                                                                  |      | 2017/06/14                                                 |     | PRODUCT CUSTOMER DRAWING |             |                        |                |                                                                                          |                 |          |     |
| J19                                                                                                                                           |     | REV/                                                                                      | APP/ | DRAFT WHERE APPLICABLE<br>MUST REMAIN<br>WITHIN DIMENSIONS |     | DRAWING SIZE             |             | THIRD ANGLE PROJECTION |                | SERIES                                                                                   | MATERIAL NUMBER | CUSTOMER |     |
|                                                                                                                                               |     | D                                                                                         |      |                                                            |     | 34062                    | SEE NOTE 2a |                        | GENERAL MARKET |                                                                                          |                 |          |     |
|                                                                                                                                               |     |                                                                                           |      |                                                            |     | DOCUMENT NUMBER          |             | DOC TYPE               | DOC PART       | SHEET NUMBER                                                                             |                 |          |     |
|                                                                                                                                               |     |                                                                                           |      |                                                            |     | SD-34062-002             |             | PSD                    | 000            | 2 OF 5                                                                                   |                 |          |     |

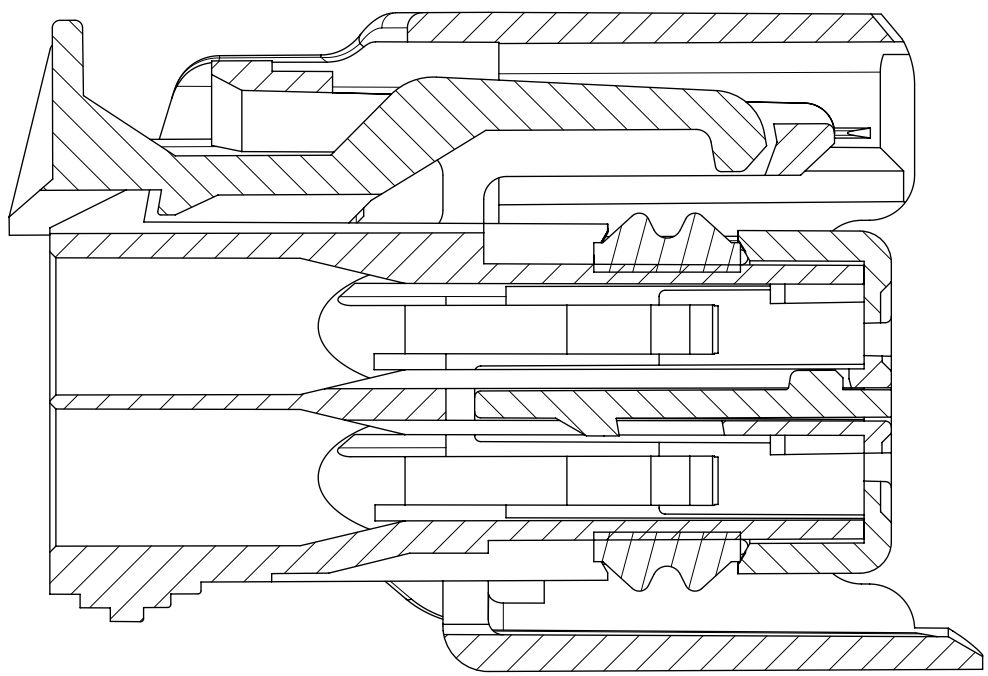


| SHEET DESCRIPTION             |
|-------------------------------|
| RECEPTACLE CONNECTOR ASSEMBLY |

| CHARTED DIMENSIONS          |            |      |
|-----------------------------|------------|------|
| CONFIGURATIONS              | DIMENSIONS |      |
|                             | A          | B    |
| OPTIONS A, C, D             | 16.6       | 22.0 |
| OPTION B                    | 16.6       | 23.9 |
| OPTION E                    | 20.2       | 23.9 |
| OPTION F                    | 16.6       | 23.9 |
| OPTION G                    | 18.4       | 22.0 |
| OPTIONS A, C, D W/CLIP-SLOT | 19.2       | 22.0 |
| OPTION B W/CLIP-SLOT        | 19.2       | 23.9 |

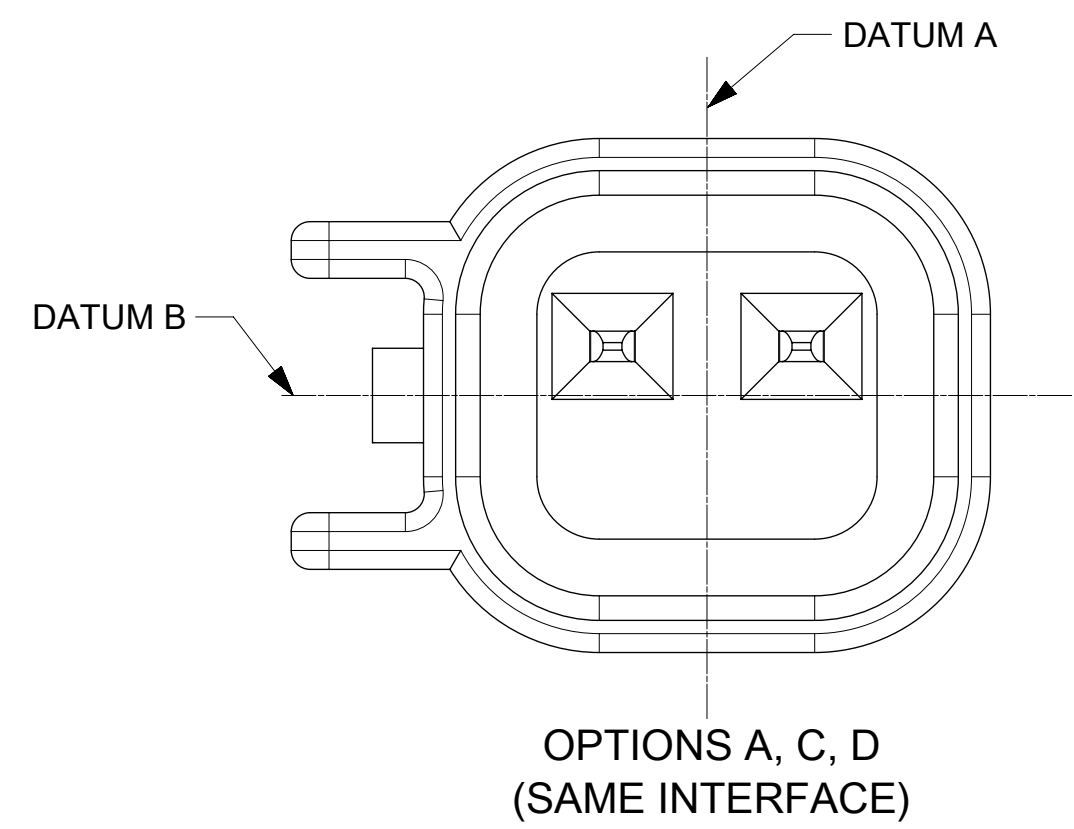


SECTION A-A  
TPA SHOWN IN THE  
PRE-STAGED POSITION

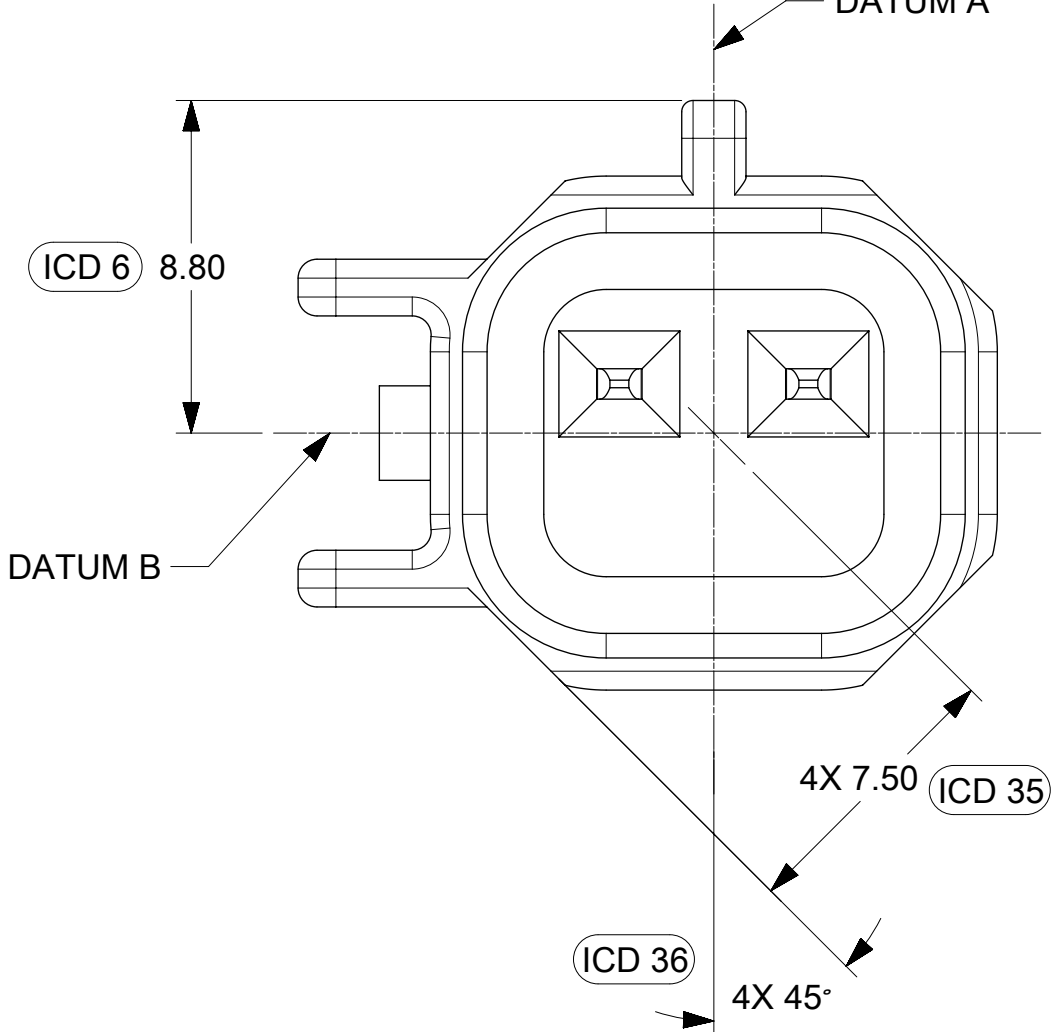


SECTION B-B  
TPA SHOWN IN  
FINAL-LOCK POSITION

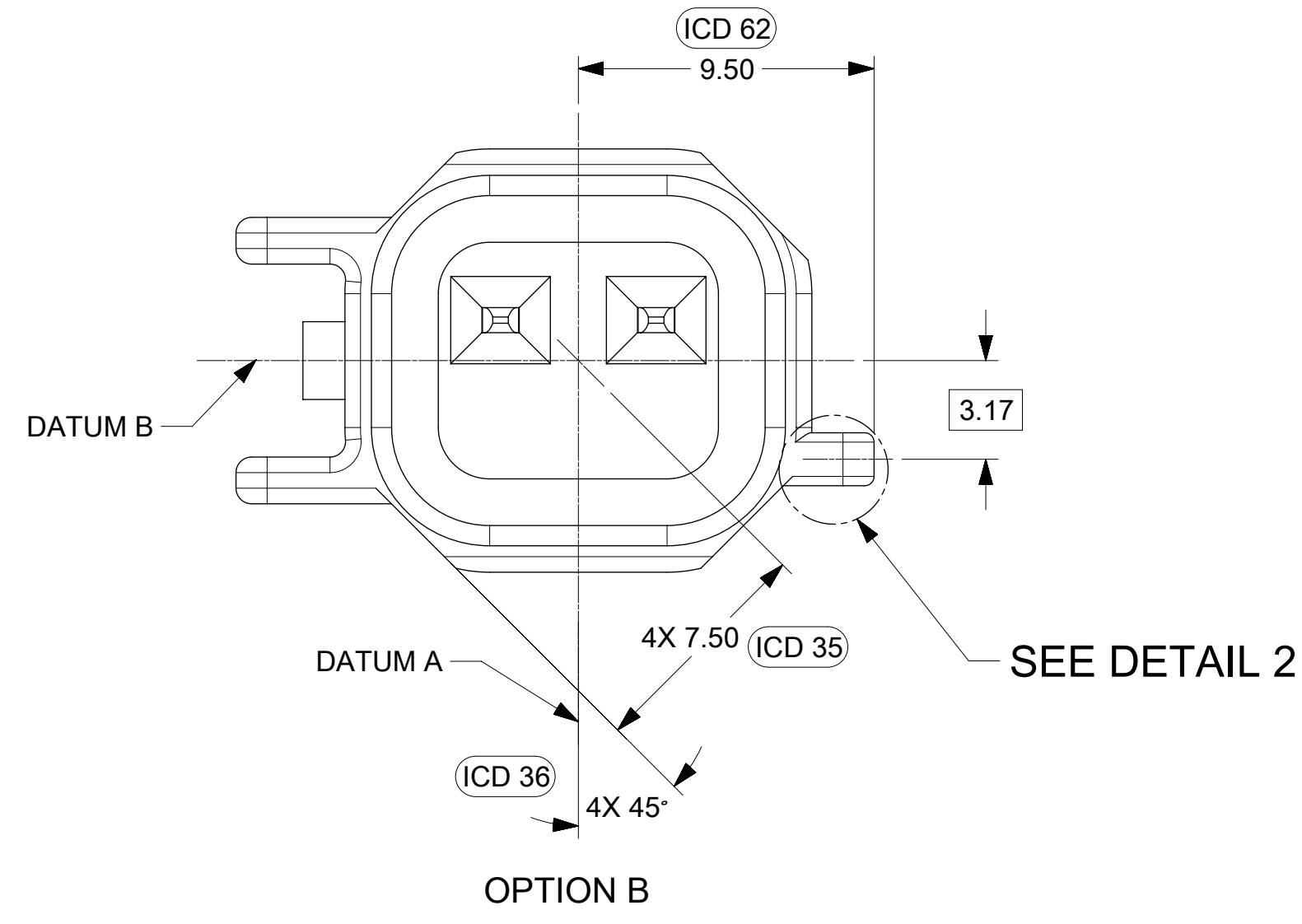
| THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION |                                                            |                                                                                                                        |              |                                       |                        |                 |  |       |  |                                                                                          |  |  |
|-----------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------|--------------|---------------------------------------|------------------------|-----------------|--|-------|--|------------------------------------------------------------------------------------------|--|--|
| QUALITY SYMBOLS                                                                                                                               |                                                            | 2017/05/15<br><br>2017/06/14<br><br>EC NO: 117955<br>DRWN: PKABBUR<br>CHKD: KDEKOSKI<br>REV: APPR: KDEKOSKI<br><br>J19 |              | GENERAL TOLERANCES (UNLESS SPECIFIED) |                        | DIMENSION UNITS |  | SCALE |  | <div>molex®</div><br><br>MX150 2 WAY CABLE SEAL<br>RECEPTACLE CONN. SYSTEM (5.0MM PITCH) |  |  |
| = 0                                                                                                                                           | ANGULAR TOL ± 3.0 °                                        |                                                                                                                        |              | MM                                    |                        | 4:1             |  |       |  |                                                                                          |  |  |
| = 0                                                                                                                                           |                                                            |                                                                                                                        |              |                                       |                        |                 |  |       |  |                                                                                          |  |  |
| = 0                                                                                                                                           |                                                            |                                                                                                                        |              |                                       |                        |                 |  |       |  |                                                                                          |  |  |
| = 0                                                                                                                                           |                                                            |                                                                                                                        |              |                                       |                        |                 |  |       |  |                                                                                          |  |  |
| = 0                                                                                                                                           | 4 PLACES ±                                                 |                                                                                                                        |              | DRWN BY                               |                        | DATE            |  |       |  |                                                                                          |  |  |
| = 0                                                                                                                                           | 3 PLACES ±                                                 |                                                                                                                        |              | KCUNNINGHAM                           |                        | 2011/11/08      |  |       |  |                                                                                          |  |  |
| = 0                                                                                                                                           | 2 PLACES ± 0.1                                             |                                                                                                                        |              | CHK'D BY                              |                        | DATE            |  |       |  |                                                                                          |  |  |
| = 0                                                                                                                                           | 1 PLACE ± 0.3                                              |                                                                                                                        |              | MVANSLAMBROU                          |                        | 1/26/2012       |  |       |  |                                                                                          |  |  |
| = 0                                                                                                                                           | 0 PLACES ±                                                 |                                                                                                                        |              | APPR BY                               |                        | DATE            |  |       |  |                                                                                          |  |  |
| = 0                                                                                                                                           | DRAFT WHERE APPLICABLE<br>MUST REMAIN<br>WITHIN DIMENSIONS |                                                                                                                        | KDEKOSKI     |                                       | 2017/06/14             |                 |  |       |  |                                                                                          |  |  |
| = 0                                                                                                                                           |                                                            |                                                                                                                        | DRAWING SIZE |                                       | THIRD ANGLE PROJECTION |                 |  |       |  |                                                                                          |  |  |
| = 0                                                                                                                                           |                                                            |                                                                                                                        | D            |                                       |                        |                 |  |       |  |                                                                                          |  |  |
| PRODUCT CUSTOMER DRAWING                                                                                                                      |                                                            | SERIES                                                                                                                 |              | MATERIAL NUMBER                       |                        | CUSTOMER        |  |       |  |                                                                                          |  |  |
| 34062                                                                                                                                         |                                                            | SEE NOTE 2a                                                                                                            |              | GENERAL MARKET                        |                        |                 |  |       |  |                                                                                          |  |  |
| DOCUMENT NUMBER                                                                                                                               |                                                            | DOC TYPE                                                                                                               |              | DOC PART                              |                        | SHEET NUMBER    |  |       |  |                                                                                          |  |  |
| SD-34062-002                                                                                                                                  |                                                            | PSD                                                                                                                    |              | 000                                   |                        | 4 OF 5          |  |       |  |                                                                                          |  |  |



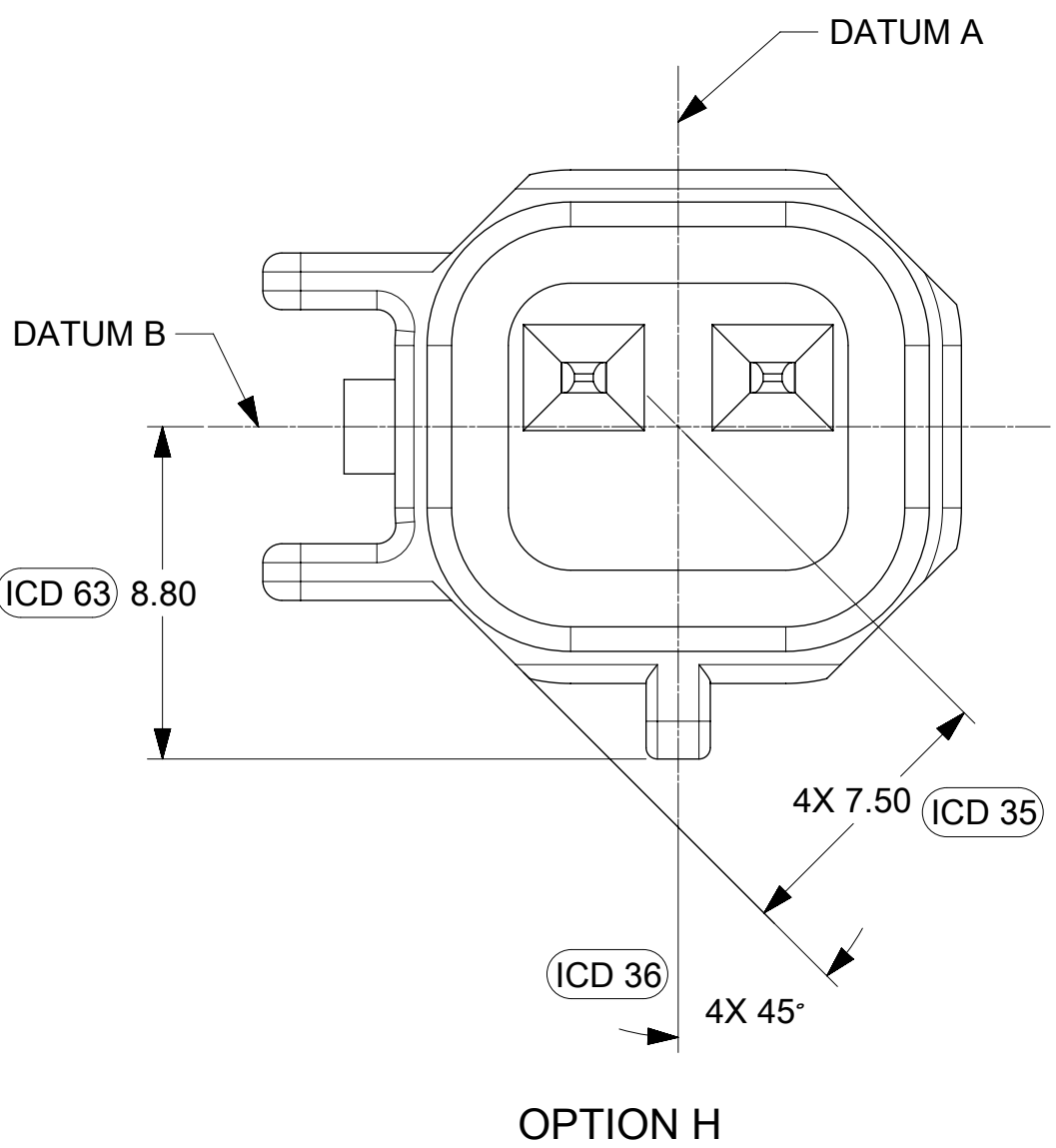
OPTIONS A, C, D  
(SAME INTERFACE)



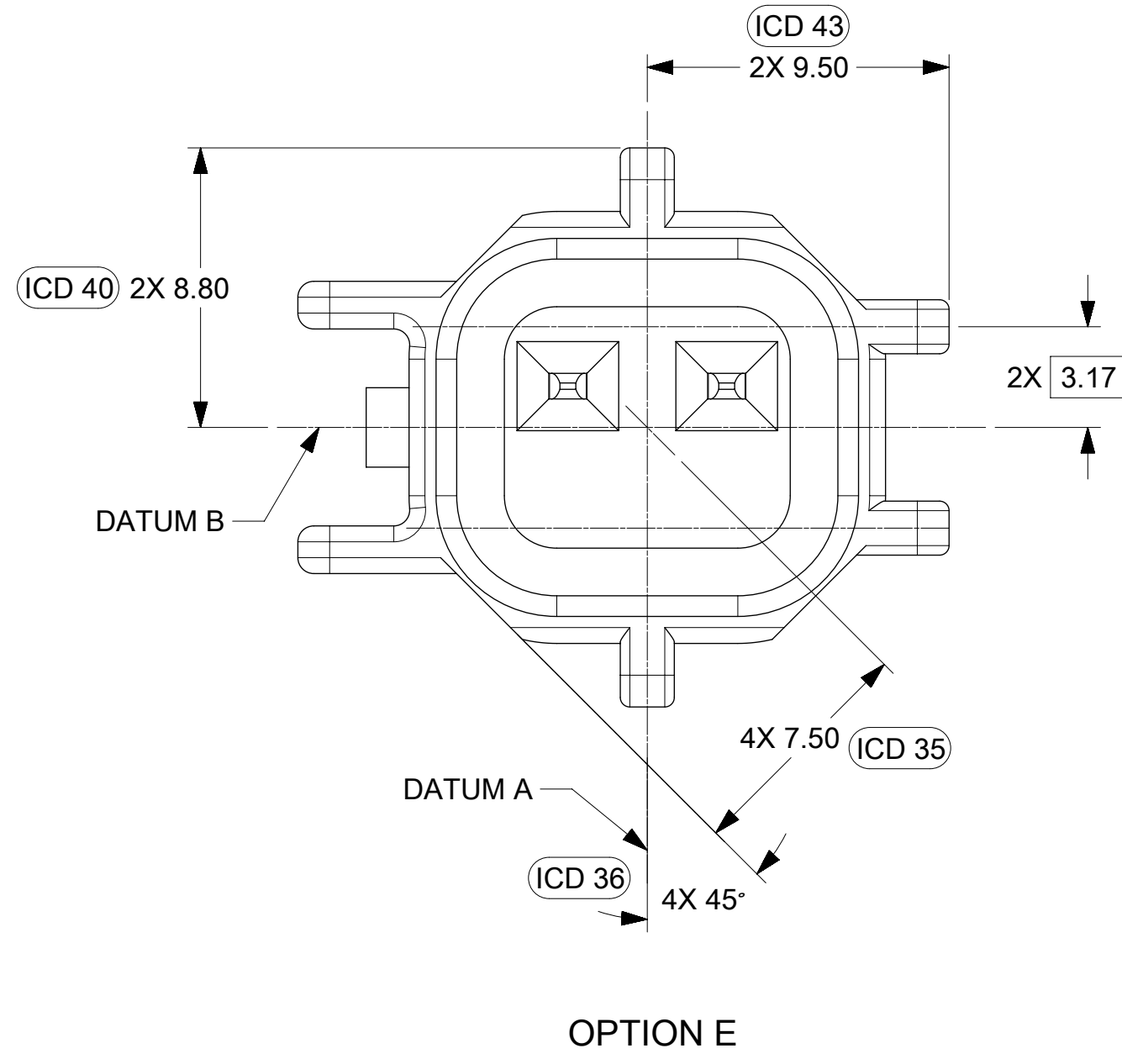
OPTION G



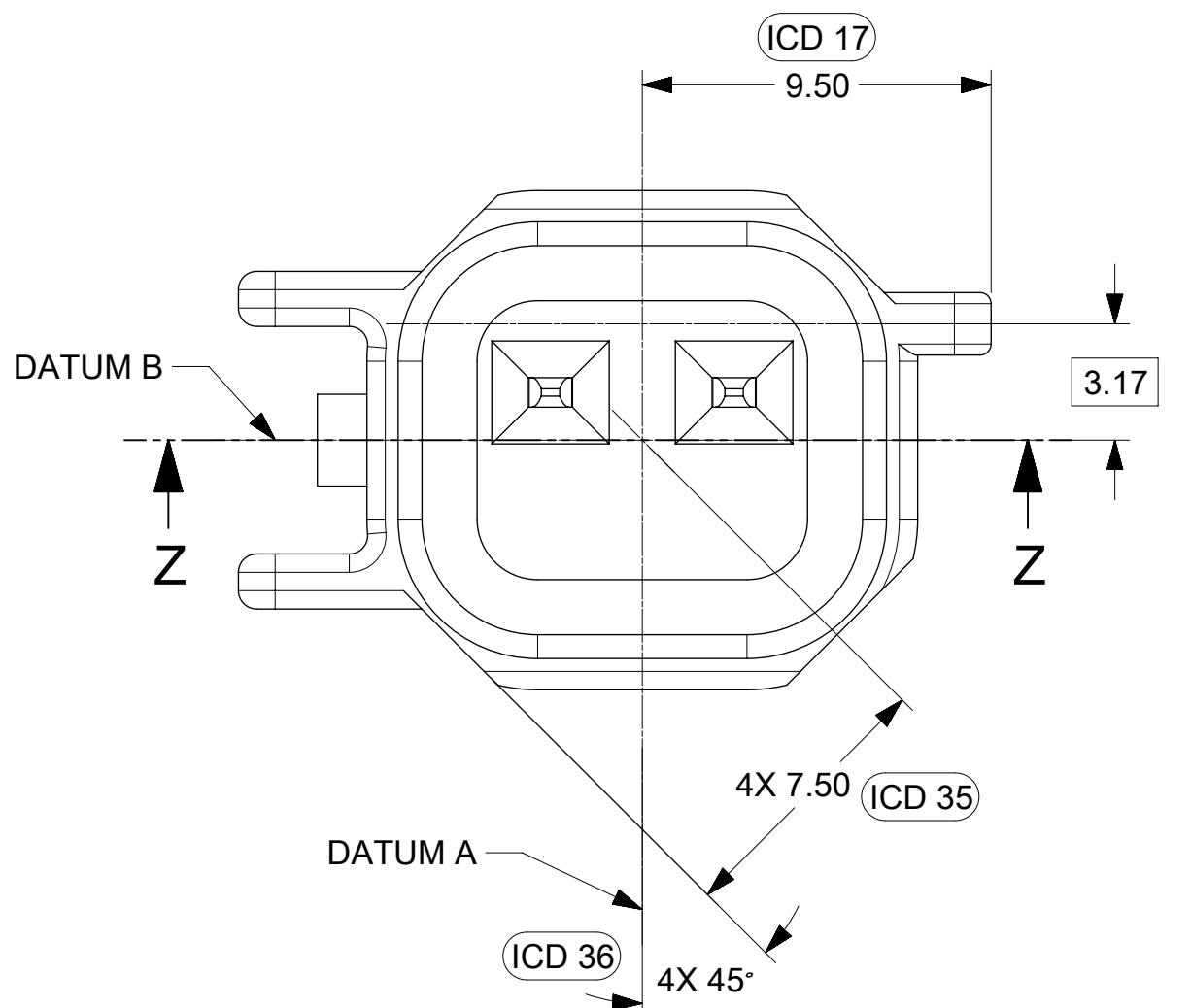
OPTION B



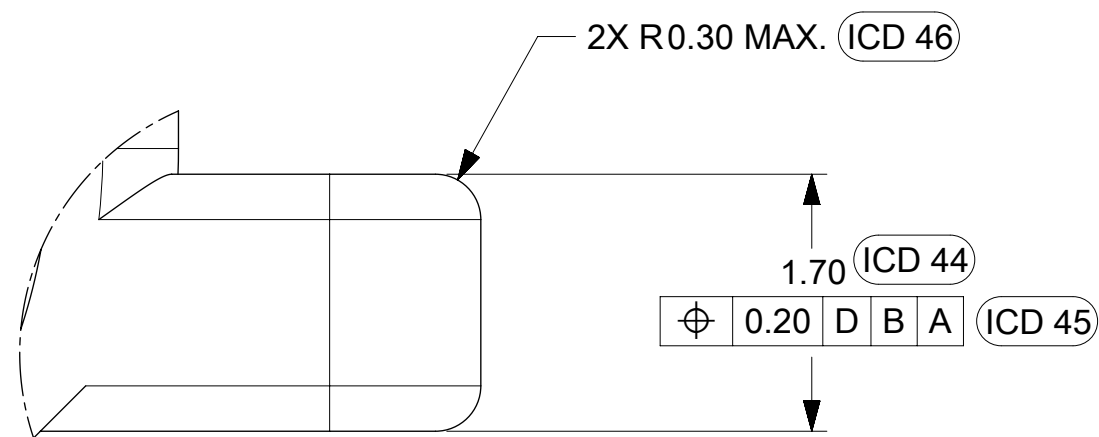
OPTION H



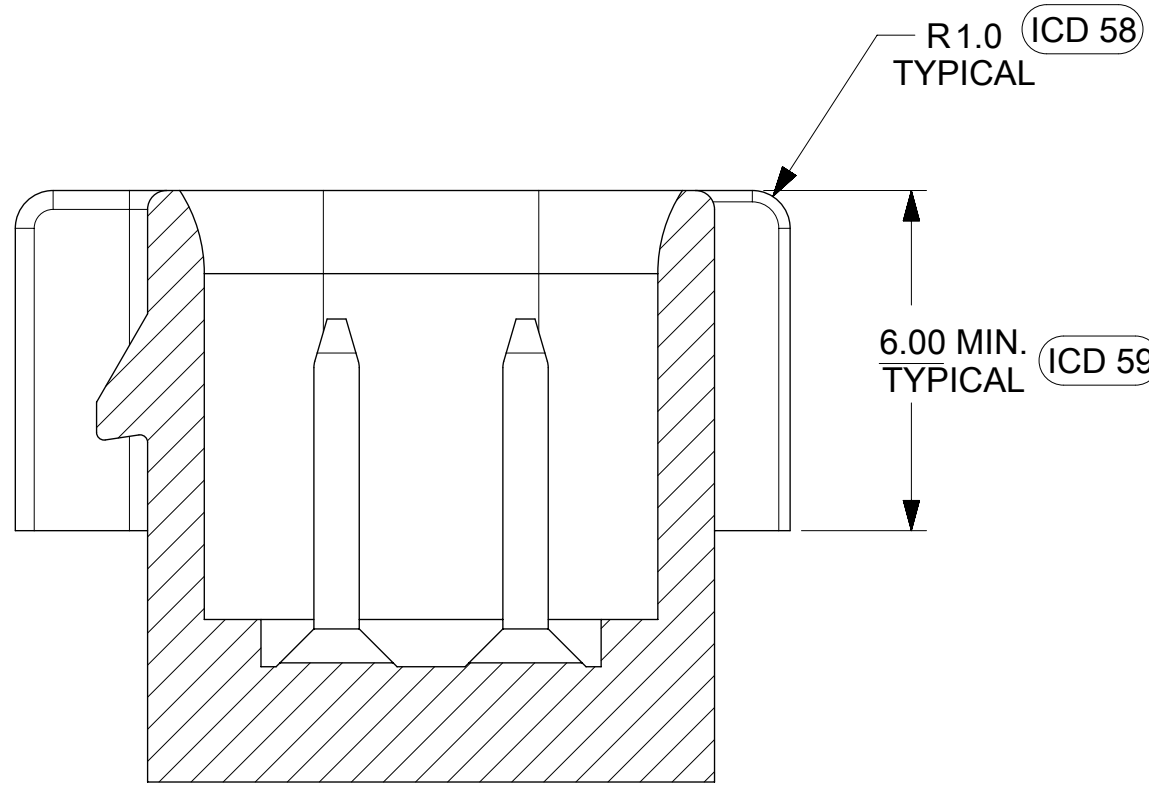
OPTION E



OPTION F

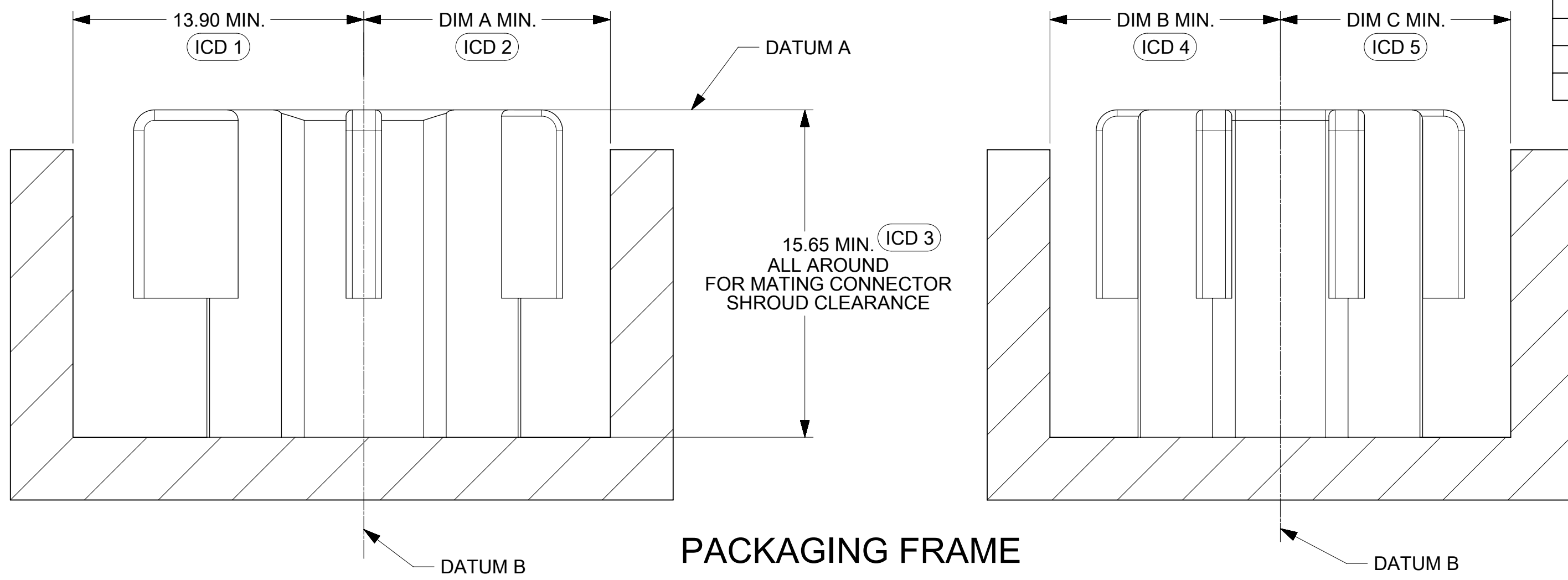


DETAIL 2  
SCALE 20:1  
TYPICAL  
SEE KEYING OPTIONS VIEWS FOR POSITIONS



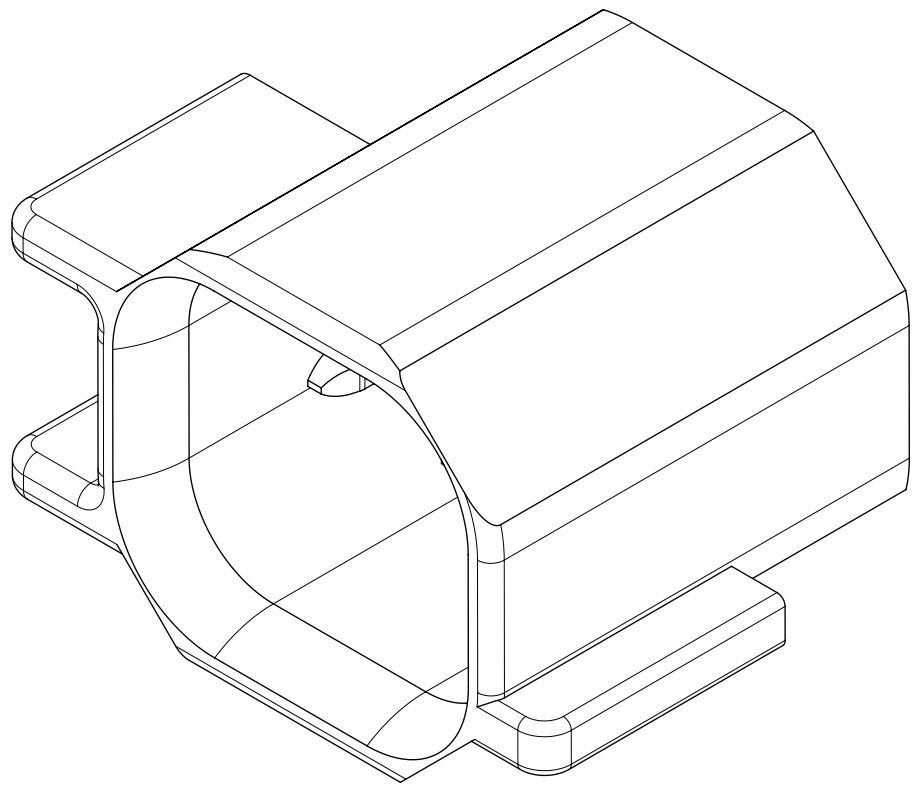
SECTION Z-Z  
SEE KEYING OPTION VIEWS FOR POSITIONS

IF A HEADER IS RECESSED INTO A POCKET, THESE DIMENSIONS REPRESENT THE MINIMUM CLEARANCE REQUIRED FOR THE MATING CONNECTOR SHROUD.

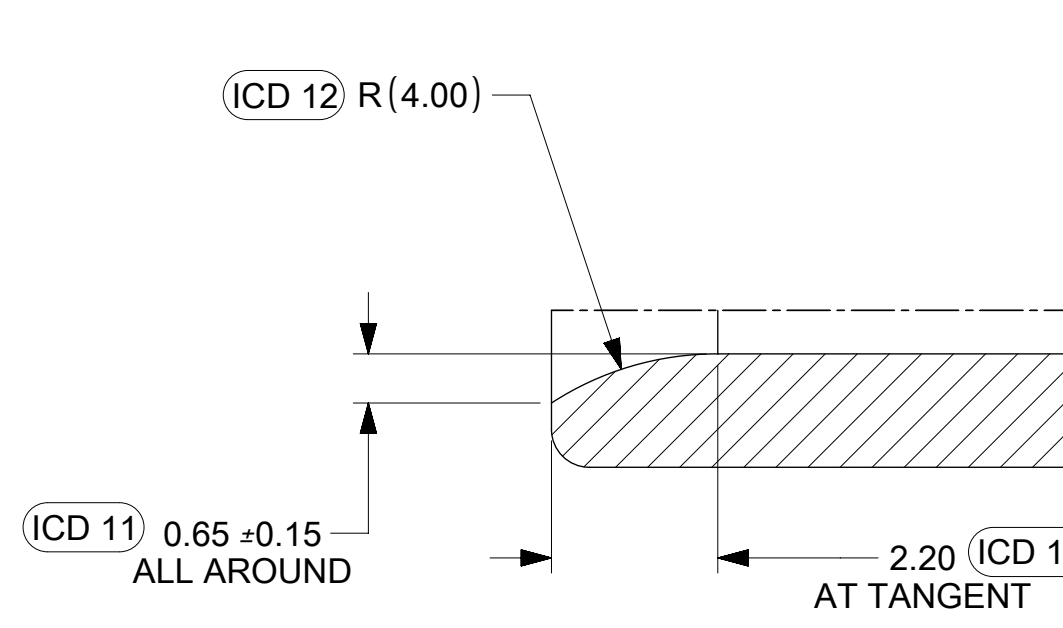


PACKAGING FRAME

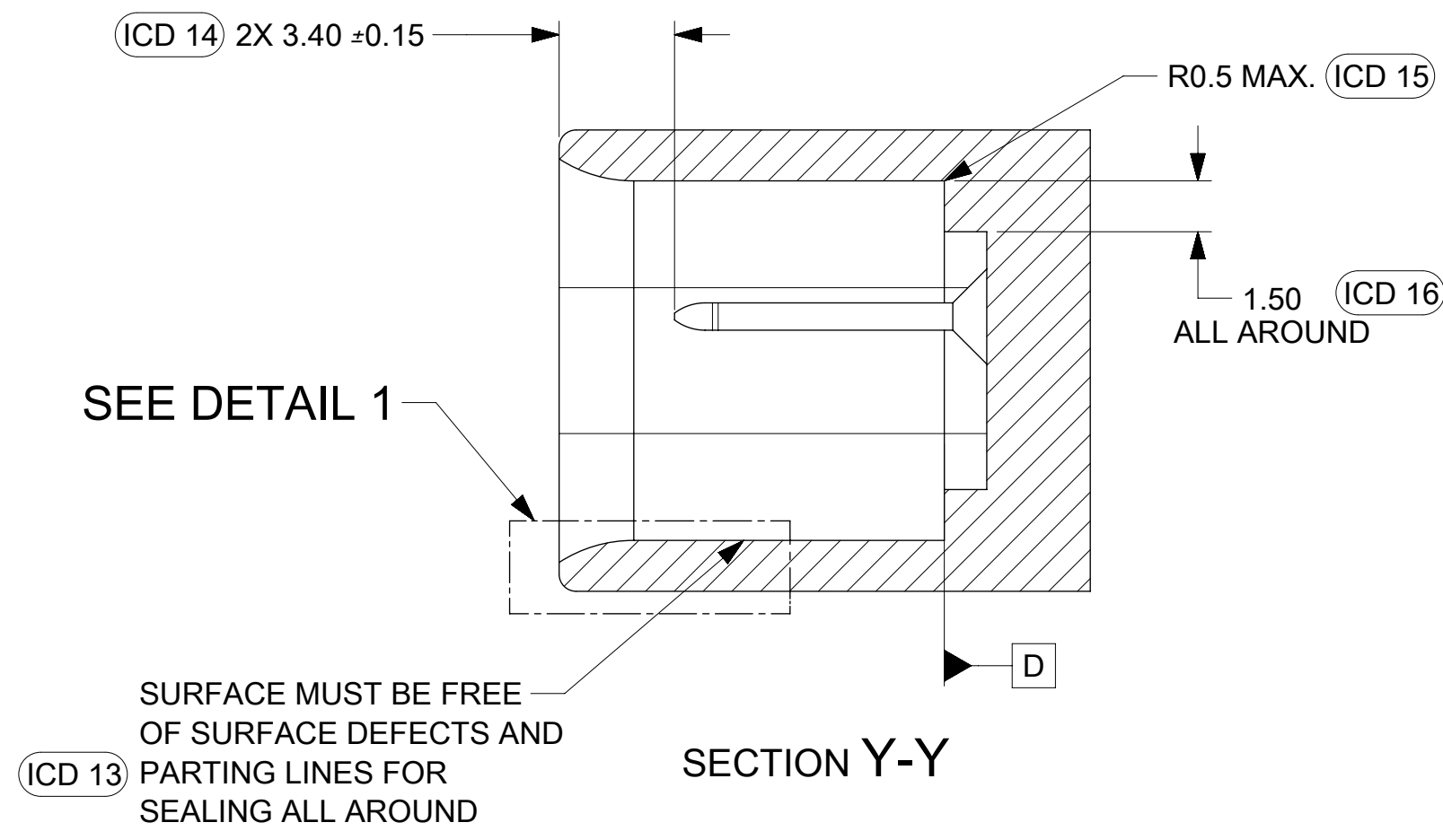
| KEY<br>OPTION | DIMENSIONS |       |       |
|---------------|------------|-------|-------|
|               | DIM A      | DIM B | DIM C |
| A, C, D       | 9.90       | 9.20  | 9.20  |
| B             | 11.80      | 9.20  | 9.20  |
| E             | 11.80      | 11.00 | 11.00 |
| F             | 11.80      | 9.20  | 9.20  |
| G             | 9.90       | 9.20  | 11.00 |
| H             | 9.90       | 11.00 | 9.20  |



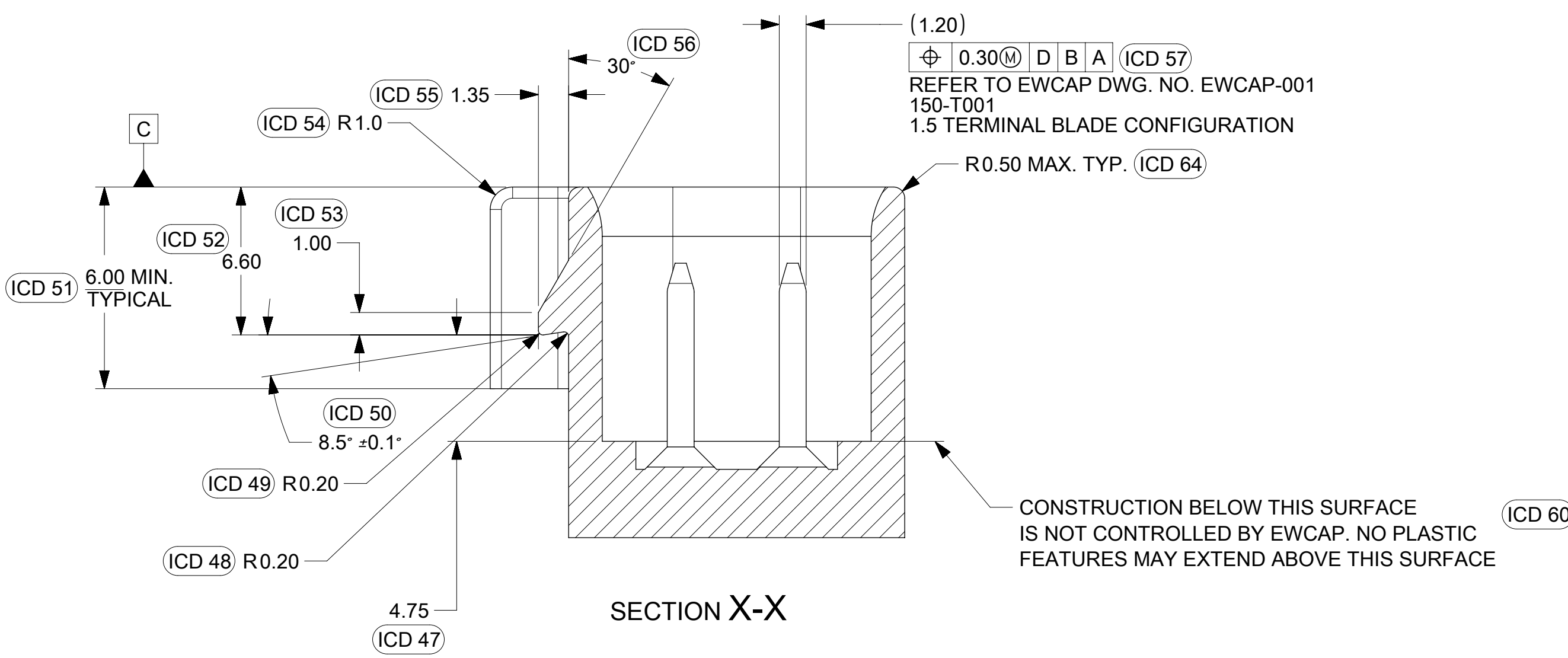
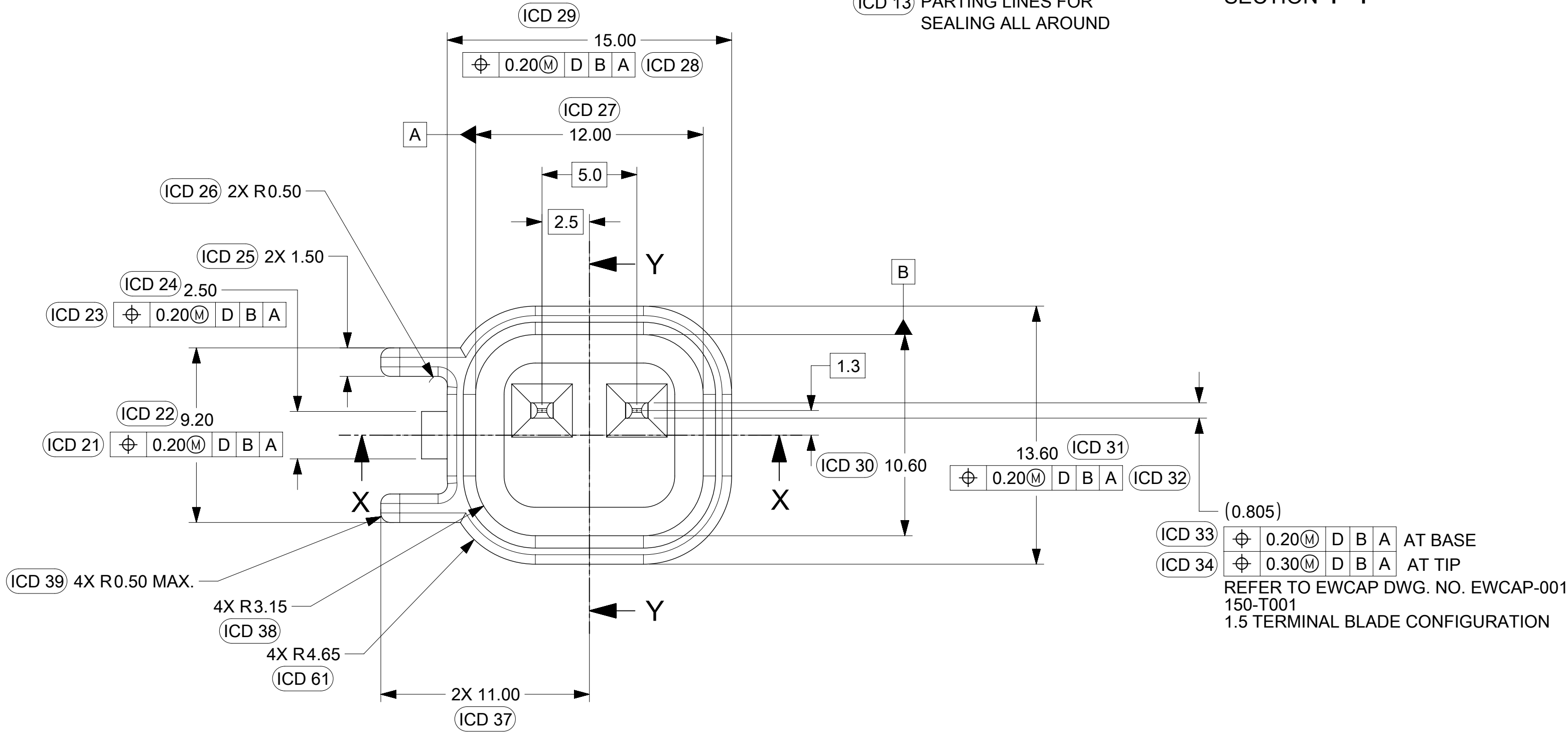
OPTION B



DETAIL 1  
SCALE 10:1



SECTION Y-Y



SECTION X-X

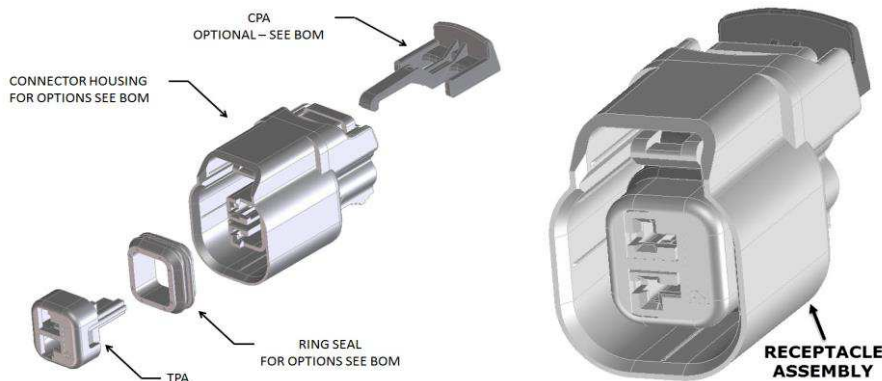
NOTES: UNLESS OTHERWISE SPECIFIED

- 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 DWG. NO. EWCAP-001
- A FULL SHROUD ON THE MATING CONNECTOR IS REQUIRED TO ENSURE THAT THE CONNECTOR-HEADER POLARIZATION FEATURES (OPTIONS A THRU H) 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.

| QUALITY SYMBOLS |     | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION |                                                      |  |                        |  |            |          |                                                                         |              |  |
|-----------------|-----|-----------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------|--|------------------------|--|------------|----------|-------------------------------------------------------------------------|--------------|--|
|                 | = 0 | EC NO: 117955<br>DRWN: PKABBUR<br>CHK'D: KDEKOSKI<br>REV APPR: 2017/05/15<br>2017/06/14                                                       | GENERAL TOLERANCES (UNLESS SPECIFIED)                |  | DIMENSION UNITS        |  | SCALE      |          | <br><br>MX150 2 WAY CABLE SEAL<br>RECEPTACLE CONN. SYSTEM (5.0MM PITCH) |              |  |
|                 | = 0 |                                                                                                                                               | ANGULAR TOL ± 3.0 °                                  |  | MM                     |  | 5:1        |          |                                                                         |              |  |
|                 | = 0 |                                                                                                                                               | 4 PLACES ±                                           |  | DRWN BY                |  | DATE       |          |                                                                         |              |  |
|                 | = 0 |                                                                                                                                               | 3 PLACES ±                                           |  | KCUNNINGHAM            |  | 2011/11/08 |          |                                                                         |              |  |
|                 | = 0 |                                                                                                                                               | 2 PLACES ± 0.1                                       |  | CHK'D BY               |  | DATE       |          | PRODUCT CUSTOMER DRAWING                                                |              |  |
|                 | = 0 |                                                                                                                                               | 1 PLACE ± 0.3                                        |  | MVANSLAMBROU           |  | 1/26/2012  |          |                                                                         |              |  |
|                 | = 0 | J19                                                                                                                                           | 0 PLACES ±                                           |  | APPR BY                |  | DATE       |          | SERIES                                                                  |              |  |
|                 | = 0 |                                                                                                                                               | DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS |  | KDEKOSKI               |  | 2017/06/14 |          |                                                                         |              |  |
|                 | = 0 |                                                                                                                                               | DRAWING SIZE                                         |  | THIRD ANGLE PROJECTION |  | E          |          | DOCUMENT NUMBER                                                         |              |  |
|                 | = 0 |                                                                                                                                               |                                                      |  |                        |  |            |          |                                                                         |              |  |
|                 |     |                                                                                                                                               |                                                      |  |                        |  |            | DOC TYPE |                                                                         | DOC PART     |  |
|                 |     |                                                                                                                                               |                                                      |  |                        |  |            | PSD      |                                                                         | 000          |  |
|                 |     |                                                                                                                                               |                                                      |  |                        |  |            |          |                                                                         | SHEET NUMBER |  |
|                 |     |                                                                                                                                               |                                                      |  |                        |  |            |          |                                                                         | 5 OF 5       |  |

|                |              |                                                              |                                                  |
|----------------|--------------|--------------------------------------------------------------|--------------------------------------------------|
| A, C, D        | BLACK        | A                                                            |                                                  |
| B              | LIGHT GRAY   | B                                                            |                                                  |
| E              | BLACK        | E                                                            | NOT RECOMMENDED<br>MATING CONNECTOR IS UNIVERSAL |
| F              | LIGHT GRAY   | D                                                            |                                                  |
| G              | BLACK        | C                                                            |                                                  |
| H              | LIGHT GRAY   | F                                                            |                                                  |
| OPTION         | COLOR        | SIMILAR TO AFL DRAWING R63461<br>(OPTION GEOMETRY IDENTICAL) | COMMENTS                                         |
| RELEASE STATUS | RELEASE DATE |                                                              |                                                  |

MX150 2 WAY CABLE SEAL RECEPTACLE CONNECTION SYSTEM (5.0mm PITCH)  
BOM AND PIN OUT SHEET



| RECOMMENDED MATING DEVICE TABLE |                                |                         |                                                                       |
|---------------------------------|--------------------------------|-------------------------|-----------------------------------------------------------------------|
| ABBREVIATION                    | DESCRIPTION                    | DRAWING INFORMATION     | ADDITIONAL INFORMATION                                                |
| 1                               | USCAR INTERFACE                | 150-S-002-1-Z01         | <a href="http://ewcap.uscartcams.org">http://ewcap.uscartcams.org</a> |
| 2                               | MOLEX INTERFACE                | SD-34062-002<br>SHEET 5 |                                                                       |
| 3                               | MOLEX INLINE MALE<br>CONNECTOR | E-34675-001             |                                                                       |

| BOM/ APPLICABLE COMPONENTS TABLE |                         |                             |             |                                |
|----------------------------------|-------------------------|-----------------------------|-------------|--------------------------------|
| ABBREVIATION                     | DESCRIPTION             |                             | COLOR       | MATERIAL                       |
| A-BLK                            | HOUSING                 | OPTION A                    | BLACK       | PA6 GF30                       |
| B-LG                             | HOUSING                 | OPTION B                    | LIGHT GRAY  | PA6 GF30                       |
| B-BLK                            | HOUSING                 | OPTION B                    | BLACK       | PA6 GF30                       |
| C-BLK                            | HOUSING                 | OPTION C                    | BLACK       | PA6 GF30                       |
| D-BLK                            | HOUSING                 | OPTION D                    | BLACK       | PA6 GF30                       |
| D-LG                             | HOUSING                 | OPTION D                    | LIGHT GRAY  | PA6 GF30                       |
| E-BLK                            | HOUSING                 | OPTION E                    | BLACK       | PA6 GF30                       |
| F-LG                             | HOUSING                 | OPTION F                    | LIGHT GRAY  | PA6 GF30                       |
| G-BLK                            | HOUSING                 | OPTION G                    | BLACK       | PA6 GF30                       |
| A-BLK-CLIP                       | HOUSING                 | OPTION A WITH CLIPSLOT      | BLACK       | PA6 GF30                       |
| B-LG-CLIP                        | HOUSING                 | OPTION B WITH CLIPSLOT      | LIGHT GRAY  | PA6 GF30                       |
| B-BLK-CLIP                       | HOUSING                 | OPTION B WITH CLIPSLOT      | BLACK       | PA6 GF30                       |
| C-BLK-CLIP                       | HOUSING                 | OPTION C WITH CLIPSLOT      | BLACK       | PA6 GF30                       |
| D-BLK-CLIP                       | HOUSING                 | OPTION D WITH CLIPSLOT      | BLACK       | PA6 GF30                       |
| D-LG-CLIP                        | HOUSING                 | OPTION D WITH CLIPSLOT      | LIGHT GRAY  | PA6 GF30                       |
| A-BLK-SV                         | HOUSING                 | OPTION A - SEVERE VIBRATION | BLACK       | PA6 GF30                       |
| C-BLK-SV                         | HOUSING                 | OPTION C - SEVERE VIBRATION | BLACK       | PA6 GF30                       |
| D-BLK-SV                         | HOUSING                 | OPTION D - SEVERE VIBRATION | BLACK       | PA6 GF30                       |
| R3                               | RING SEAL TEMP. CLASS 3 |                             | MEDIUM BLUE | INHERENTLY LUBRICATED SILICONE |
| R4                               | RING SEAL TEMP. CLASS 4 |                             | GREEN       | INHERENTLY LUBRICATED SILICONE |
| CPA                              | CPA                     |                             | RED         | PBT GF30                       |
| TPA                              | INSERT, TPA             |                             | NATURAL     | PBT GF30                       |

FOR ADDITIONAL INFORMATION SEE SD-34062-002

| ASSEMBLY DESCRIPTION                         | ASSEMBLY PART NUMBER | COMPONENT                                                                 |     |     |           | ASSEMBLY OPERATING TEMPERATURE | RECOMMENDED MATING DEVICE |   |   | PRODUCTION TOOL STATUS | COMMENTS                  |    |
|----------------------------------------------|----------------------|---------------------------------------------------------------------------|-----|-----|-----------|--------------------------------|---------------------------|---|---|------------------------|---------------------------|----|
|                                              |                      | THE PRESENCE OF AN ABBREVIATION INDICATES THE PRESENCE OF THAT COMPONENT. |     |     |           |                                | 1                         | 2 | 3 |                        |                           |    |
|                                              |                      | HOUSING OPTION/COLOR                                                      | TPA | CPA | RING SEAL |                                |                           |   |   |                        |                           |    |
| OPTION A, BLACK, W/O CPA                     | 34062-0021           | A-BLK                                                                     | TPA |     | R3        | -40° C TO 125° C               | 1                         | 2 |   | SALEABLE               |                           |    |
| OPTION B, LIGHT GRAY, W/O CPA                | 34062-0022           | B-LG                                                                      | TPA |     | R3        | -40° C TO 125° C               | 1                         | 2 |   | SALEABLE               | PREFERRED, FULLY SHROUDED |    |
| OPTION C, BLACK, W/O CPA                     | 34062-0023           | C-BLK                                                                     | TPA |     | R3        | -40° C TO 125° C               | 1                         | 2 | 3 | SALEABLE               | PREFERRED, FULLY SHROUDED |    |
| OPTION D, BLACK, W/O CPA                     | 34062-0024           | D-BLK                                                                     | TPA |     | R3        | -40° C TO 125° C               | 1                         | 2 |   | SALEABLE               |                           |    |
| OPTION D, LIGHT GRAY, W/O CPA                | 34062-0029           | D-LG                                                                      | TPA |     | R3        | -40° C TO 125° C               | 1                         | 2 |   | SALEABLE               |                           |    |
| OPTION A, BLACK, W/ CPA                      | 34062-0025           | A-BLK                                                                     | TPA | CPA | R3        | -40° C TO 125° C               | 1                         | 2 |   | SALEABLE               |                           |    |
| OPTION B, LIGHT GRAY, W/ CPA                 | 34062-0026           | B-LG                                                                      | TPA | CPA | R3        | -40° C TO 125° C               | 1                         | 2 | 3 | SALEABLE               | PREFERRED, FULLY SHROUDED |    |
| OPTION C, BLACK, W/ CPA                      | 34062-0027           | C-BLK                                                                     | TPA | CPA | R3        | -40° C TO 125° C               | 1                         | 2 | 3 | SALEABLE               | PREFERRED, FULLY SHROUDED |    |
| OPTION D, BLACK, W/ CPA                      | 34062-0028           | D-BLK                                                                     | TPA | CPA | R3        | -40° C TO 125° C               | 1                         | 2 |   | SALEABLE               |                           |    |
| OPTION D, LIGHT GRAY, W/ CPA                 | 34062-0030           | D-LG                                                                      | TPA | CPA | R3        | -40° C TO 125° C               | 1                         | 2 |   | SALEABLE               |                           |    |
| OPTION A, BLACK, WITH CLIPSLOT, W/O CPA      | 34062-0031           | A-BLK-CLIP                                                                | TPA |     | R3        | -40° C TO 125° C               | 1                         | 2 |   | SALEABLE               |                           |    |
| OPTION B, LIGHT GRAY, WITH CLIPSLOT, W/O CPA | 34062-0032           | B-LG-CLIP                                                                 | TPA |     | R3        | -40° C TO 125° C               | 1                         | 2 | 3 | SALEABLE               | PREFERRED, FULLY SHROUDED |    |
| OPTION C, BLACK, WITH CLIPSLOT, W/O CPA      | 34062-0033           | C-BLK-CLIP                                                                | TPA |     | R3        | -40° C TO 125° C               | 1                         | 2 | 3 | SALEABLE               | PREFERRED, FULLY SHROUDED |    |
| OPTION D, BLACK, WITH CLIPSLOT, W/O CPA      | 34062-0034           | D-BLK-CLIP                                                                | TPA |     | R3        | -40° C TO 125° C               | 1                         | 2 |   | SALEABLE               |                           |    |
| OPTION D, LIGHT GRAY, WITH CLIPSLOT, W/O CPA | 34062-0035           | D-LG-CLIP                                                                 | TPA |     | R3        | -40° C TO 125° C               | 1                         | 2 |   | SALEABLE               |                           |    |
| OPTION A, BLACK, WITH CLIPSLOT, W/ CPA       | 34062-0036           | A-BLK-CLIP                                                                | TPA | CPA | R3        | -40° C TO 125° C               | 1                         | 2 |   | SALEABLE               |                           |    |
| OPTION B, LIGHT GRAY, WITH CLIPSLOT, W/ CPA  | 34062-0037           | B-LG-CLIP                                                                 | TPA | CPA | R3        | -40° C TO 125° C               | 1                         | 2 | 3 | SALEABLE               | PREFERRED, FULLY SHROUDED |    |
| OPTION C, BLACK, WITH CLIPSLOT, W/ CPA       | 34062-0038           | C-BLK-CLIP                                                                | TPA | CPA | R3        | -40° C TO 125° C               | 1                         | 2 | 3 | SALEABLE               | PREFERRED, FULLY SHROUDED |    |
| OPTION D, BLACK, WITH CLIPSLOT, W/ CPA       | 34062-0039           | D-BLK-CLIP                                                                | TPA | CPA | R3        | -40° C TO 125° C               | 1                         | 2 |   | SALEABLE               |                           |    |
| OPTION D, LIGHT GRAY, WITH CLIPSLOT, W/ CPA  | 34062-0040           | D-LG-CLIP                                                                 | TPA | CPA | R3        | -40° C TO 125° C               | 1                         | 2 |   | SALEABLE               |                           |    |
| OPTION A, BLACK, SEVERE VIBRATION, W/ CPA    | 34062-4006           | A-BLK-SV                                                                  | TPA | CPA | R4        | -40° C TO 155° C               | 1                         | 2 |   | SALEABLE               |                           |    |
| OPTION C, BLACK, SEVERE VIBRATION, W/ CPA    | 34062-4008           | C-BLK-SV                                                                  | TPA | CPA | R4        | -40° C TO 155° C               | 1                         | 2 |   | SALEABLE               | PREFERRED, FULLY SHROUDED |    |
| OPTION D, BLACK, SEVERE VIBRATION, W/ CPA    | 34062-4009           | D-BLK-SV                                                                  | TPA | CPA | R4        | -40° C TO 155° C               | 1                         | 2 |   | SALEABLE               |                           |    |
| OPTION E, BLACK, W/O CPA                     | 34062-0041           | E-BLK                                                                     | TPA |     | R4        | -40° C TO 155° C               |                           | 2 |   | SALEABLE               | PREFERRED, FULLY SHROUDED |    |
| OPTION F, LIGHT GRAY, W/O CPA                | 34062-0042           | F-LG                                                                      | TPA |     | R4        | -40° C TO 155° C               |                           | 2 |   | SALEABLE               | PREFERRED, FULLY SHROUDED |    |
| OPTION G, BLACK, W/O CPA                     | 34062-0043           | G-BLK                                                                     | TPA |     | R4        | -40° C TO 155° C               |                           | 2 |   | SALEABLE               | PREFERRED, FULLY SHROUDED |    |
| OPTION E, BLACK, W/ CPA                      | 34062-0044           | E-BLK                                                                     | TPA | CPA | R4        | -40° C TO 155° C               |                           | 2 |   | SALEABLE               | PREFERRED, FULLY SHROUDED |    |
| OPTION F, LIGHT GRAY, W/ CPA                 | 34062-0045           | F-LG                                                                      | TPA | CPA | R4        | -40° C TO 155° C               |                           | 2 |   | SALEABLE               | PREFERRED, FULLY SHROUDED |    |
| OPTION G, BLACK, W/ CPA                      | 34062-0046           | G-BLK                                                                     | TPA | CPA | R4        | -40° C TO 155° C               |                           | 2 |   | SALEABLE               | PREFERRED, FULLY SHROUDED |    |
| OPTION A, BLACK, W/ CPA                      | 34062-0047           | A-BLK                                                                     | TPA | CPA | R3        | -40° C TO 125° C               | 1                         | 2 |   | SALEABLE               |                           |    |
| OPTION B, LIGHT GRAY, W/O CPA                | 34062-0048           | B-LG                                                                      | TPA |     | R4        | -40° C TO 155° C               | 1                         | 2 | 3 | SALEABLE               | PREFERRED, FULLY SHROUDED |    |
| OPTION C, BLACK, W/O CPA                     | 34062-0049           | C-BLK                                                                     | TPA |     | R4        | -40° C TO 155° C               | 1                         | 2 | 3 | SALEABLE               | PREFERRED, FULLY SHROUDED |    |
| OPTION B, LIGHT GRAY, W/ CPA                 | 34062-0050           | B-LG                                                                      | TPA | CPA | R4        | -40° C TO 155° C               | 1                         | 2 | 3 | SALEABLE               | PREFERRED, FULLY SHROUDED |    |
| OPTION C, BLACK, W/ CPA                      | 34062-0051           | C-BLK                                                                     | TPA | CPA | R4        | -40° C TO 155° C               | 1                         | 2 | 3 | SALEABLE               | PREFERRED, FULLY SHROUDED | </ |

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