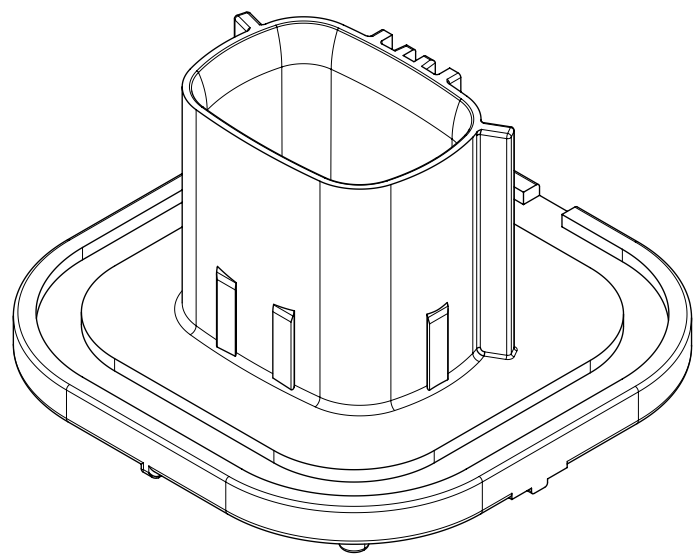


| TABLE OF CONTENTS |                             |
|-------------------|-----------------------------|
| SHEET NO.         | SHEET DESCRIPTION           |
| 1                 | NOTES, BOM & ISOMETRIC VIEW |
| 2                 | CONFIGURATIONS              |
| 3                 | CONNECTOR INTERFACE         |
| 4                 | RECOMMENDED PCB LAYOUT      |
|                   |                             |
|                   |                             |

| PART NUMBER TABLE    |                   |                                                 |              |       |            |
|----------------------|-------------------|-------------------------------------------------|--------------|-------|------------|
| CUSTOMER PART NUMBER | MOLEX PART NUMBER | DESCRIPTION                                     | CIRCUIT SIZE | COLOR | STATUS     |
| PH50227792           | 348580006         | 12CKT VERTICAL SEALED HEADER - KEY A            | 2X6          | BLACK | OK TO TOOL |
| PH50227793           | 348580106         | 12CKT VERTICAL SEALED HEADER - KEY B            | 2X6          | GREY  | OK TO TOOL |
| PH50227794           | 348580206         | 12CKT VERTICAL SEALED HEADER - KEY C            | 2X6          | BROWN | OK TO TOOL |
| PH50227795           | 348580306         | 12CKT VERTICAL SEALED HEADER - KEY D            | 2X6          | GREEN | OK TO TOOL |
| PH50227792           | 348580016         | 12CKT VERTICAL SEALED HEADER - KEY A SHORT TAIL | 2X6          | BLACK | OK TO TOOL |
| PH50227793           | 348580116         | 12CKT VERTICAL SEALED HEADER - KEY B SHORT TAIL | 2X6          | GREY  | OK TO TOOL |
| PH50227794           | 348580216         | 12CKT VERTICAL SEALED HEADER - KEY C SHORT TAIL | 2X6          | BROWN | OK TO TOOL |
| PH50227795           | 348580316         | 12CKT VERTICAL SEALED HEADER - KEY D SHORT TAIL | 2X6          | GREEN | OK TO TOOL |



NOTES: VALID UNLESS OTHERWISE SPECIFIED

1. GENERAL:
- a. APPLICATION SPECIFICATION SEE: AS-111149-001
  - b. PRODUCT SPECIFICATION SEE: PS-111149-001
  - c. PACKAGING SPECIFICATION PER MOLEX DRAWING: PK-34858-001
  - 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)
  - f. PCB TO BE FR4 .062" (1.57mm) THICK
  - g. MATING CONNECTOR MINIMUM CLEARANCE: REGION TO REMAIN CLEAR OF MODULE COMPONENTS, ADHESIVE, DEBRIS, ETC.

2. DESIGN - MATERIALS:
- a. HEADER HOUSING: SPS GF30
  - b. TERMINALS - COPPER ALLOY
  - OVERMOLDING: LCP GF30
  - MATE-SIDE PLATING: SELECTIVE GOLD OVER NICKEL
  - PCB-SIDE PLATING: TIN OVER NICKEL
  - c. BISCUIT: SPS GF30
  - d. SHIELDS - COPPER ALLOY
  - PLATING (OVERALL): TIN OVER NICKEL

3. DESIGN - GEOMETRY:
- a. GEOMETRIC DIMENSIONS AND TOLERANCES PER ASME Y14.5M-2009
  - b. EDGES AND UNDIMENSIONED DETAILS PER ISO13715
  - c. CORNERS SHOWN AS SHARP TO BE R 0.2 MAX.

4. LASER MARKING TO BE MARKED WITH:
- HUMAN READABLE CODE (HRC)
  - PERMANENTLY APPLIED ON THE PART WITH 1.5mm LETTER SIZE
  - 5 DIGIT JULIAN MANUFACTURING DATE STAMP YYDDD

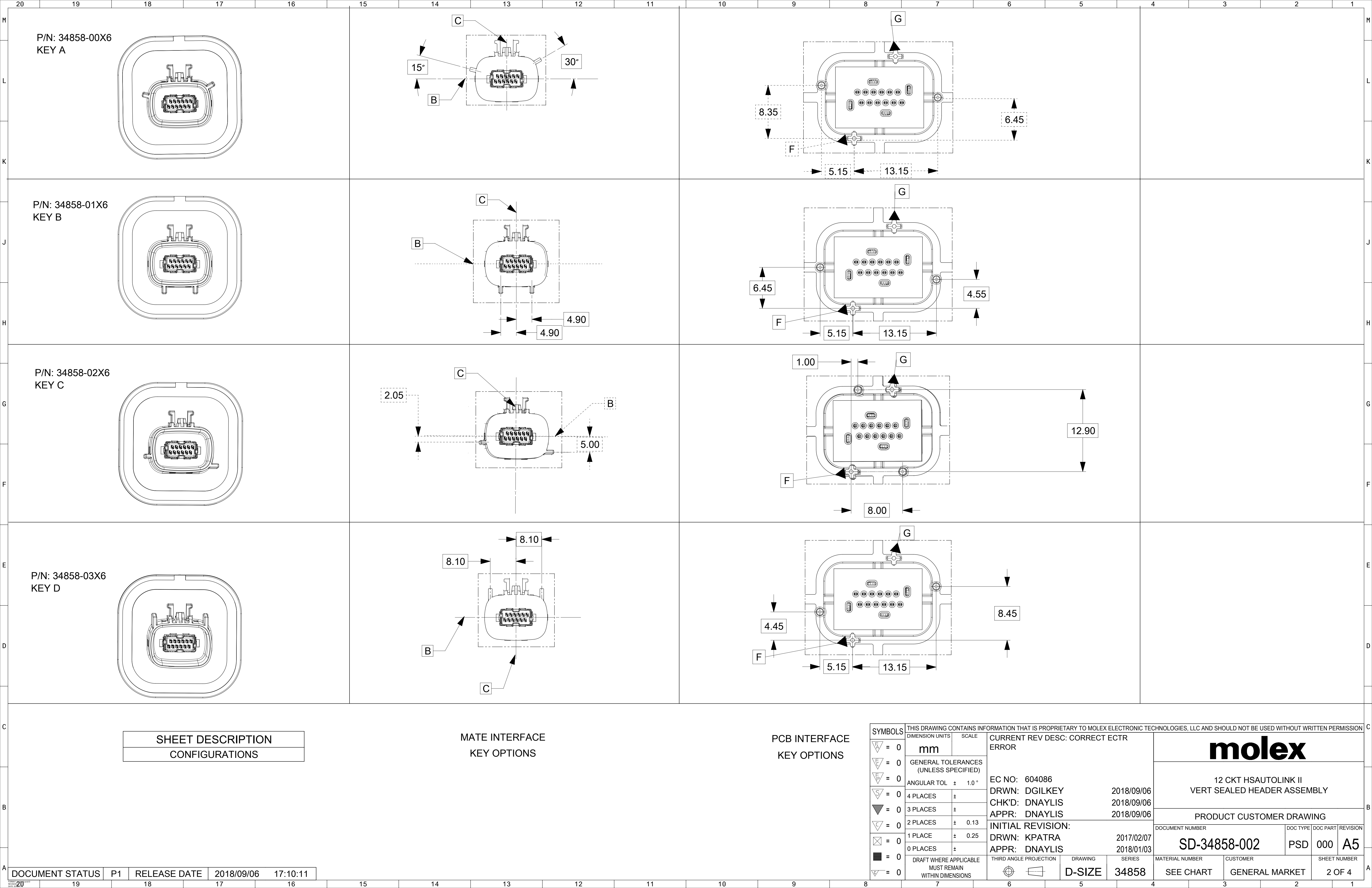
|    |                                     |
|----|-------------------------------------|
| A5 | UPDATE TITLEBLOCK TO FIX ECTR ISSUE |
| A4 | ADD TABLE TO DIM 7                  |
| A3 | CORRECT TOL ON DIM 7                |
| A2 | MIGRATION TO ECTR/NX                |
| A1 | DRAWING UPDATE                      |
| A  | OK TO TOOL RELEASE                  |

| 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> | DIMENSION UNITS                                                                                                                               |  | SCALE                  |        | CURRENT REV DESC: CORRECT ECTR ERROR  |                           |                          |                 | <div>molex</div> <div>12 CKT HSAUTOLINK II<br/>VERT SEALED HEADER ASSEMBLY</div> |                |          |     |          |              |          |
|                                                                                                                                                                                                                                                                          | mm                                                                                                                                            |  |                        |        | GENERAL TOLERANCES (UNLESS SPECIFIED) |                           |                          |                 |                                                                                  |                |          |     |          |              |          |
|                                                                                                                                                                                                                                                                          |                                                                                                                                               |  |                        |        |                                       |                           |                          |                 |                                                                                  |                |          |     |          |              |          |
|                                                                                                                                                                                                                                                                          | ANGULAR TOL                                                                                                                                   |  | ±                      | 1.0 °  |                                       | EC NO: 604086             |                          |                 |                                                                                  |                |          |     |          |              |          |
|                                                                                                                                                                                                                                                                          | 4 PLACES                                                                                                                                      |  | ±                      |        |                                       | DRWN: DGILKEY 2018/09/06  |                          |                 |                                                                                  |                |          |     |          |              |          |
|                                                                                                                                                                                                                                                                          | 3 PLACES                                                                                                                                      |  | ±                      |        |                                       | CHK'D: DNAYLIS 2018/09/06 |                          |                 |                                                                                  |                |          |     |          |              |          |
|                                                                                                                                                                                                                                                                          | 2 PLACES                                                                                                                                      |  | ±                      | 0.13   |                                       | APPR: DNAYLIS 2018/09/06  |                          |                 |                                                                                  |                |          |     |          |              |          |
|                                                                                                                                                                                                                                                                          | 1 PLACE                                                                                                                                       |  | ±                      | 0.25   |                                       | INITIAL REVISION:         |                          |                 |                                                                                  |                |          |     |          |              |          |
|                                                                                                                                                                                                                                                                          | 0 PLACES                                                                                                                                      |  | ±                      |        |                                       | DRWN: KPATRA 2017/02/07   |                          |                 |                                                                                  |                |          |     |          |              |          |
|                                                                                                                                                                                                                                                                          |                                                                                                                                               |  |                        |        |                                       |                           | APPR: DNAYLIS 2018/01/03 |                 |                                                                                  |                |          |     |          |              |          |
|                                                                                                                                                                                                                                                                          | DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS                                                                                          |  | THIRD ANGLE PROJECTION |        | DRAWING                               |                           | SERIES                   |                 | DOCUMENT NUMBER                                                                  |                | DOC TYPE |     | DOC PART |              | REVISION |
|                                                                                                                                                                                                                                                                          |                                                                                                                                               |  |                        | D-SIZE |                                       | 34858                     |                          | SD-34858-002    |                                                                                  | PSD            |          | 000 |          | A5           |          |
|                                                                                                                                                                                                                                                                          |                                                                                                                                               |  |                        |        |                                       |                           |                          | MATERIAL NUMBER |                                                                                  | CUSTOMER       |          |     |          | SHEET NUMBER |          |
|                                                                                                                                                                                                                                                                          |                                                                                                                                               |  |                        |        |                                       |                           |                          | SEE CHART       |                                                                                  | GENERAL MARKET |          |     |          | 1 OF 4       |          |

molex

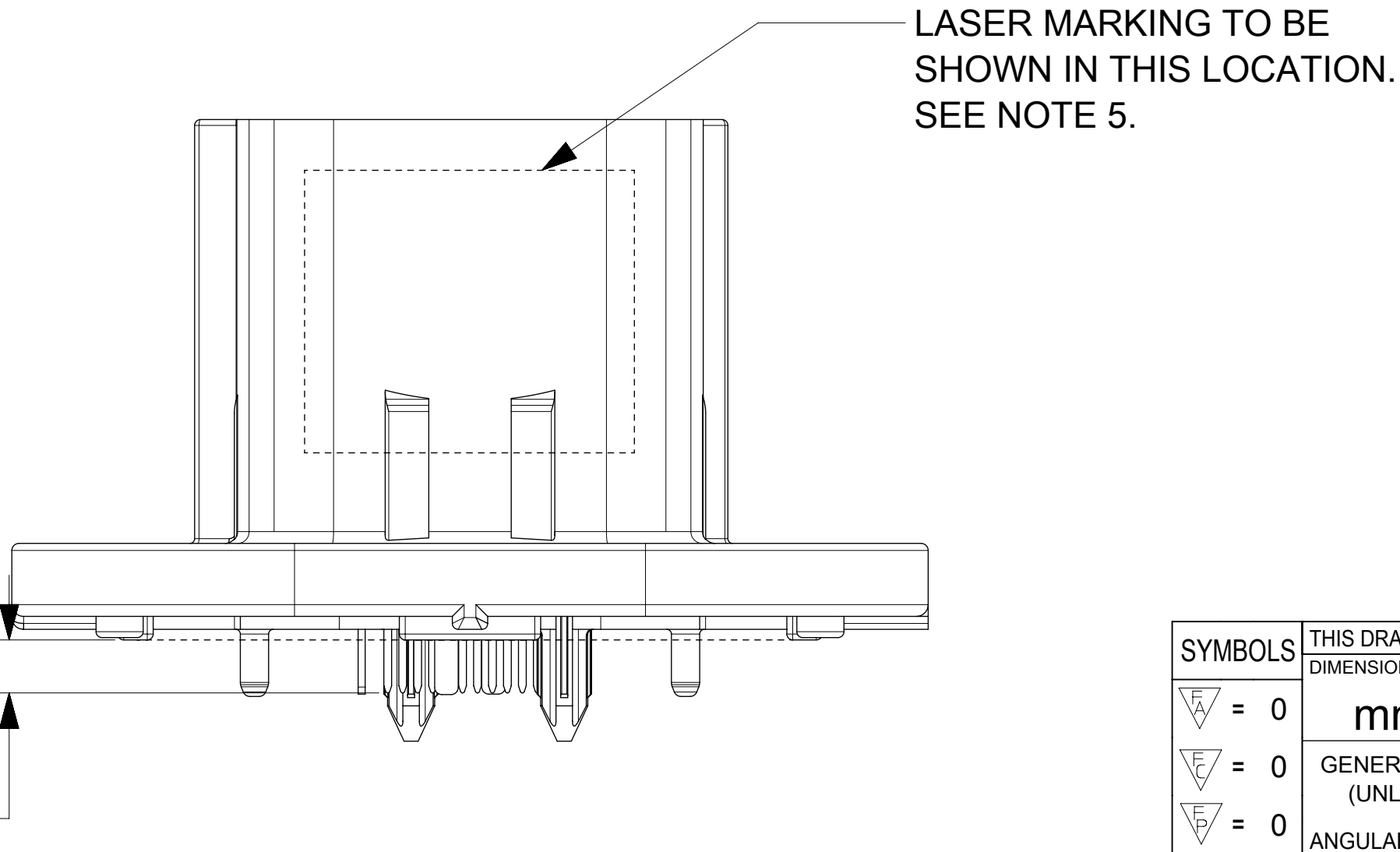
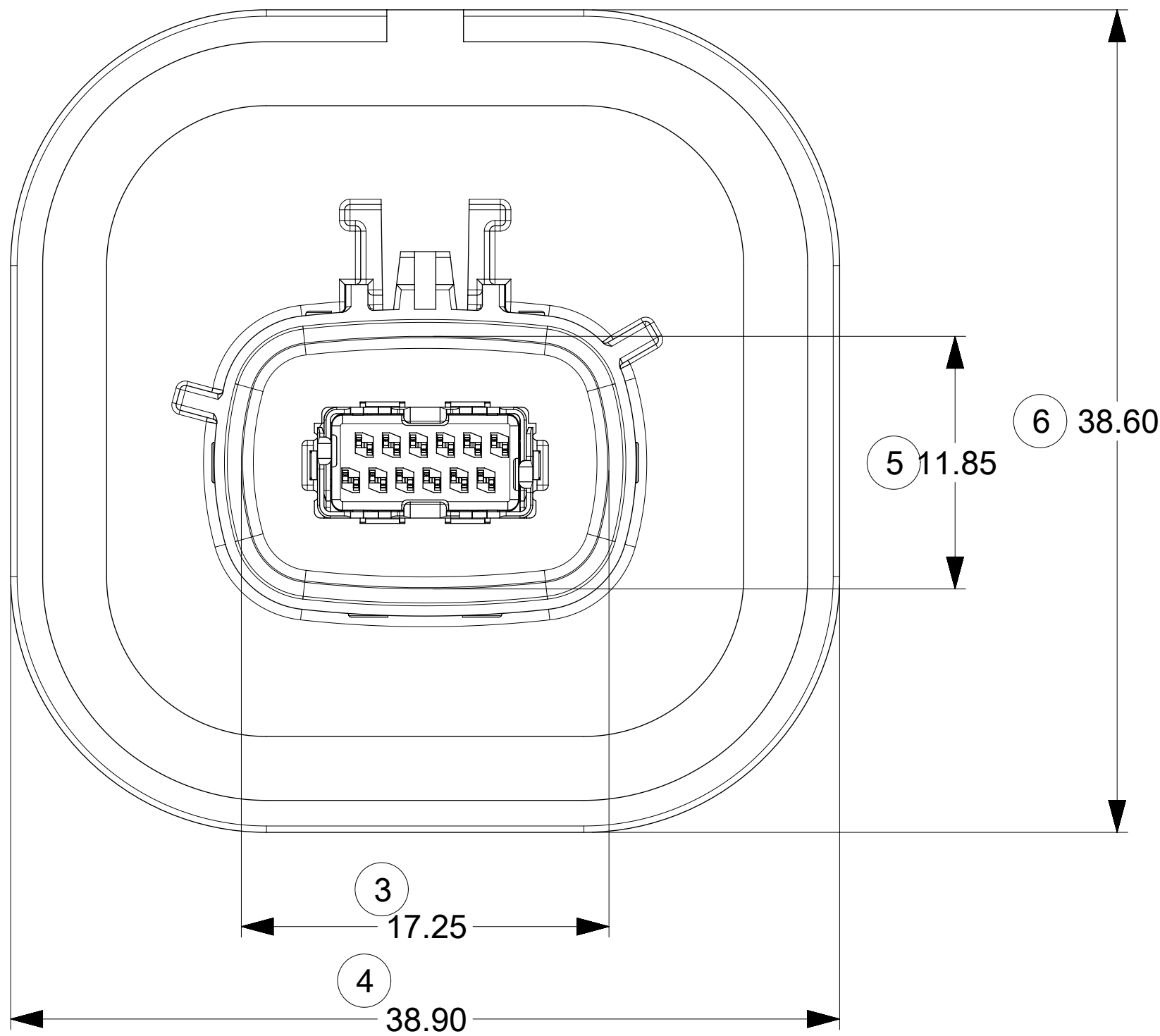
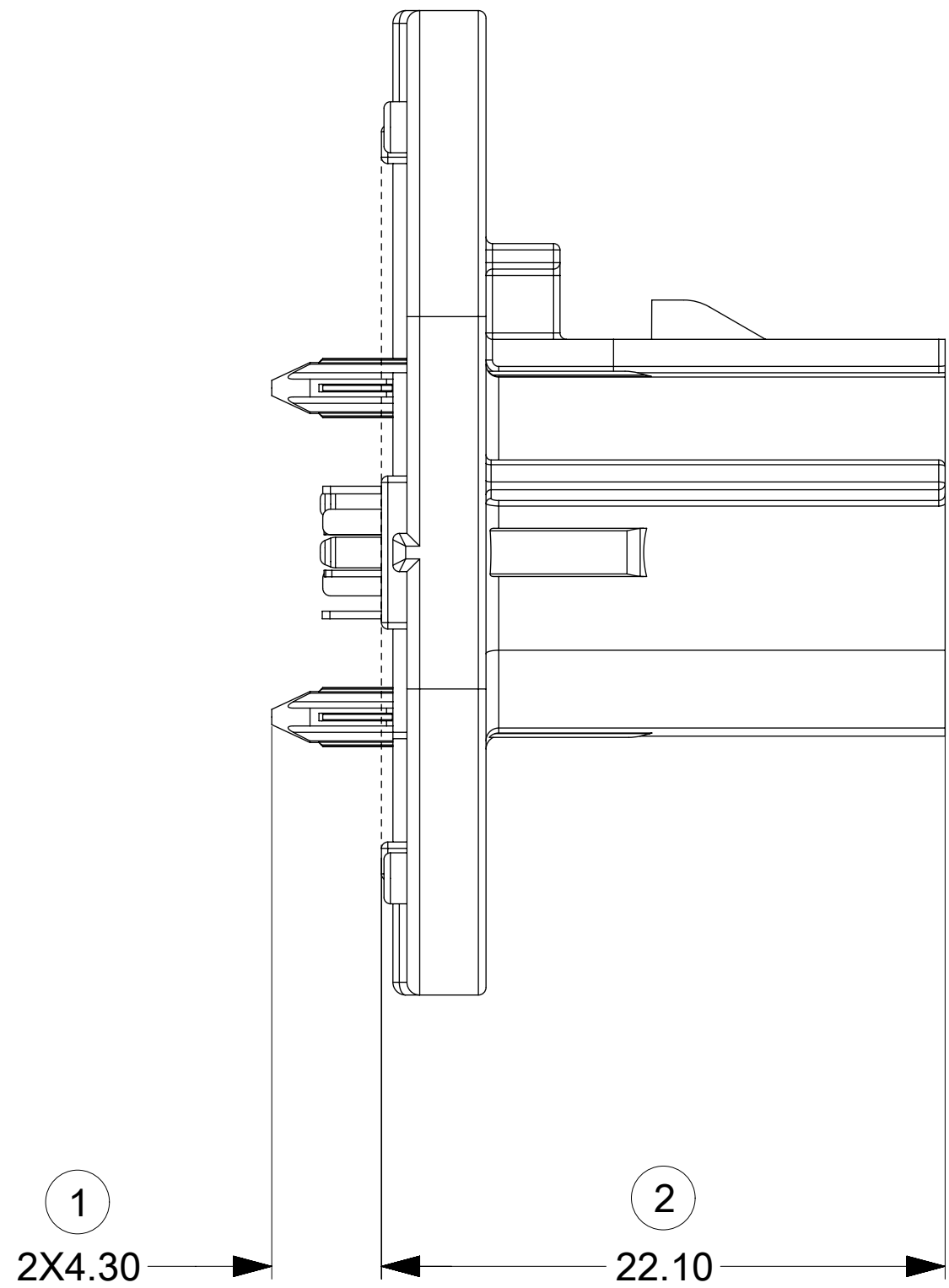
12 CKT HSAUTOLINK II  
VERT SEALED HEADER ASSEMBLY

PRODUCT CUSTOMER DRAWING



SHEET DESCRIPTION

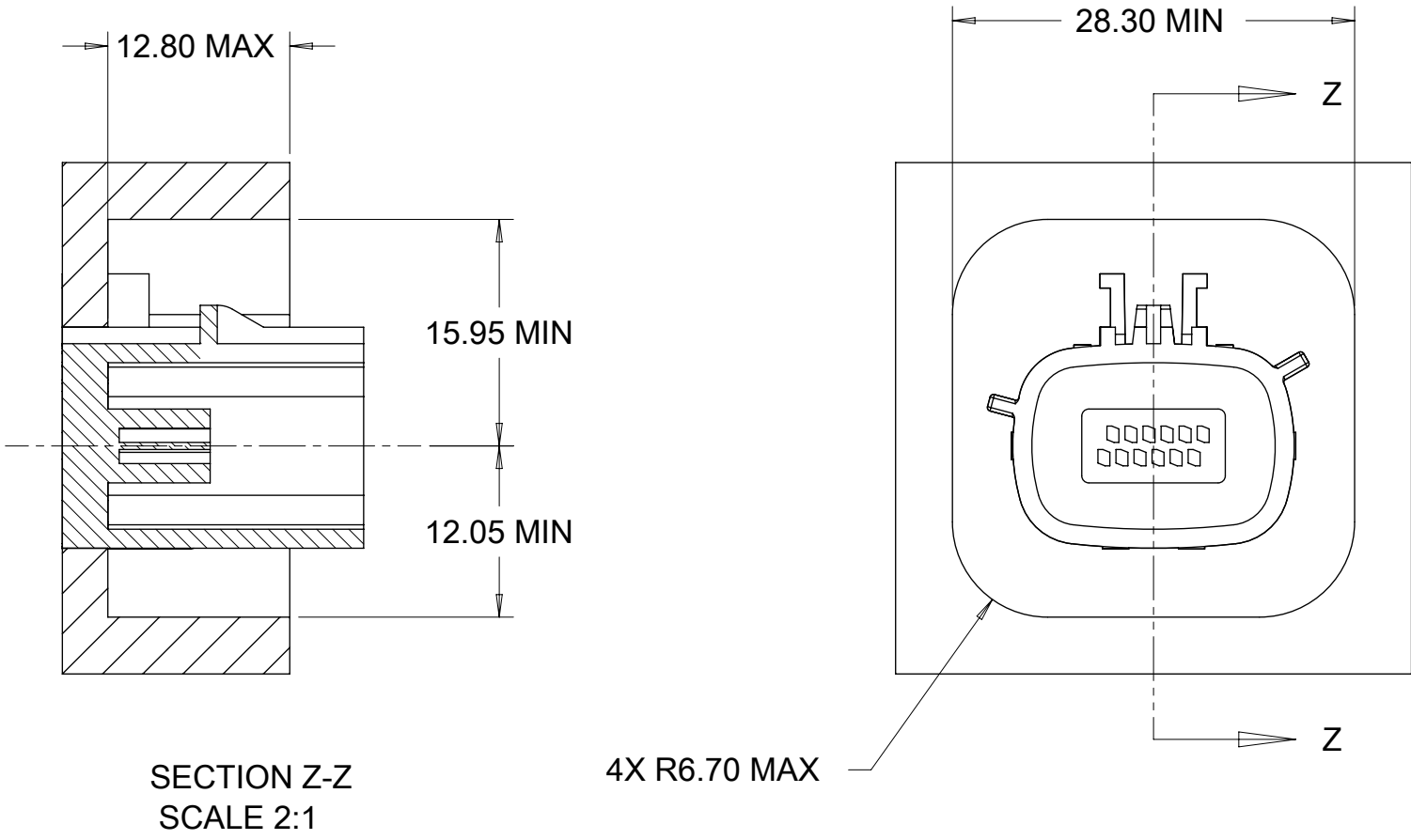
CONNECTOR INTERFACE



| DIM 7       |       |
|-------------|-------|
| PART NUMBER | VALUE |
| 34858-0X06  | 2.25  |
| 34858-0X16  | 1.75  |

MATING HARNESS CONNECTOR KEEP OUT REGION

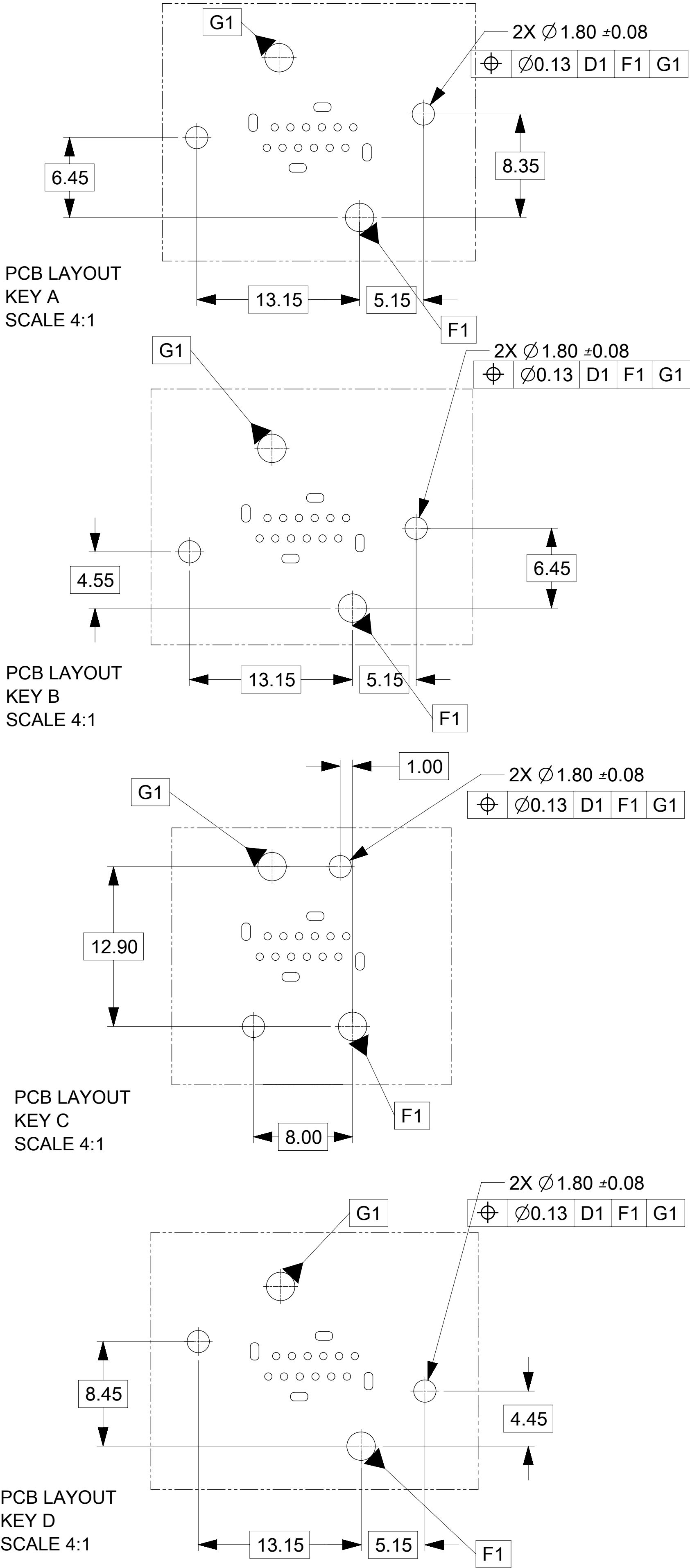
IF HEADER IS RECESSED INTO A POCKET, THESE DIMENSIONS REPRESENT THE MINIMUM CLEARANCE REQUIRED FOR THE MATING CONNECTOR SHROUD. SEE NOTE 1g.



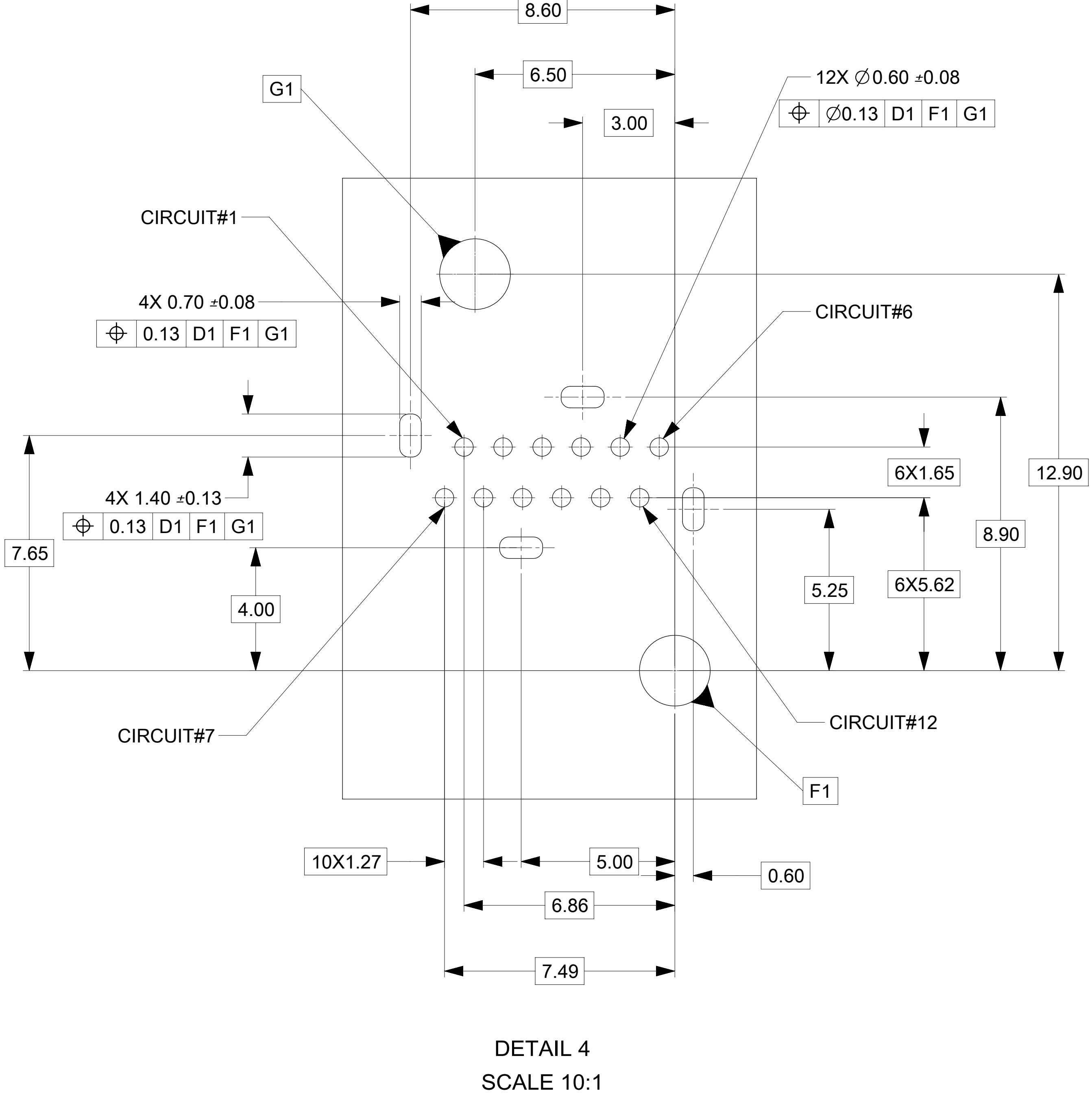
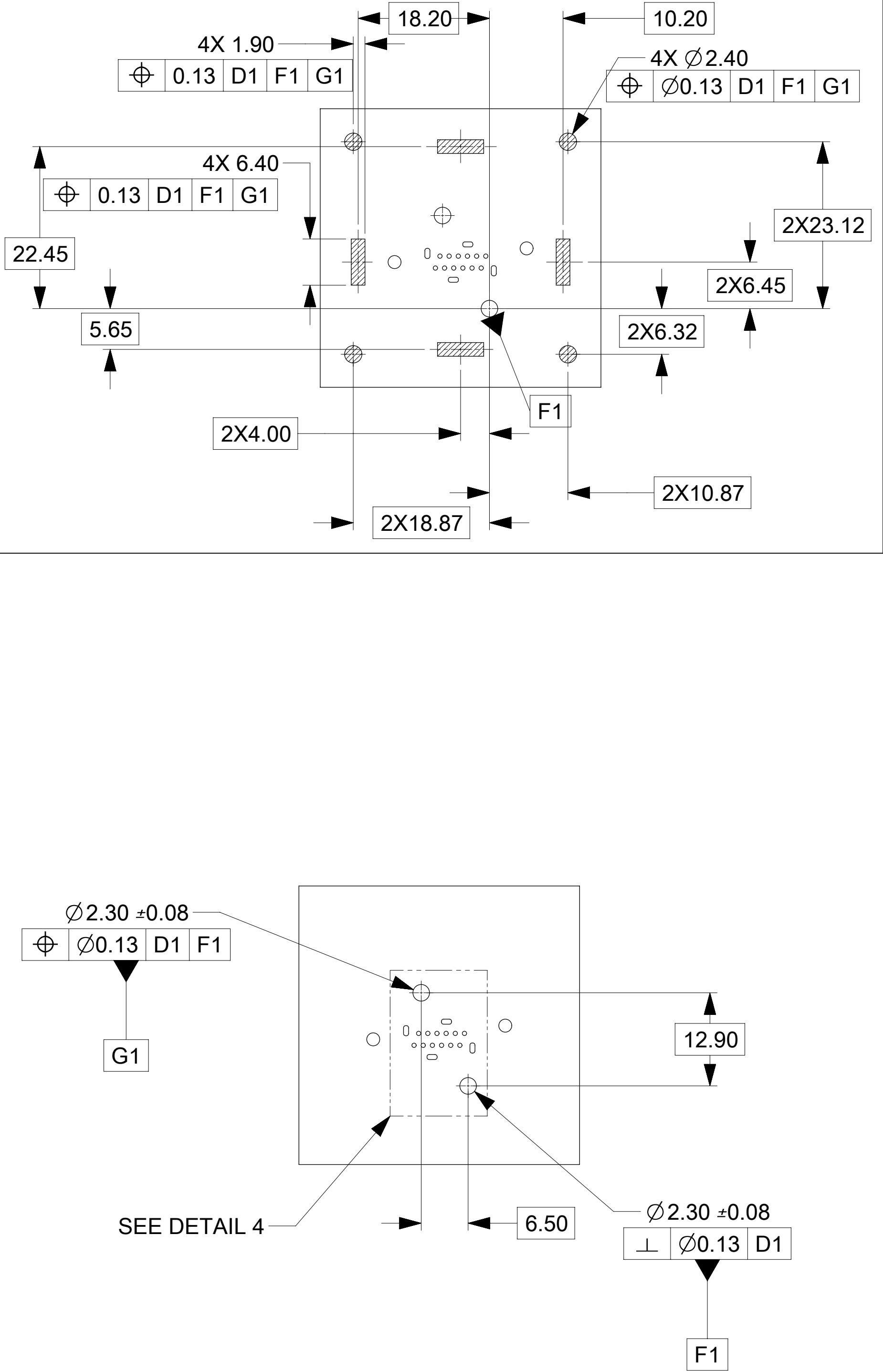
| SYMBOLS                                                                                                                                                                                                                                                                                                                                               | 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> | DIMENSION UNITS                                                                                                                               |  | SCALE  |  | CURRENT REV DESC: CORRECT ECTR ERROR                                                               |       |           | molex                    |                 |          |                                                     |
|                                                                                                                                                                                                                                                                                                                                                       | mm                                                                                                                                            |  |        |  |                                                                                                    |       |           |                          |                 |          |                                                     |
|                                                                                                                                                                                                                                                                                                                                                       | GENERAL TOLERANCES (UNLESS SPECIFIED)                                                                                                         |  |        |  | EC NO: 604086<br>DRWN: DGILKEY 2018/09/06<br>CHK'D: DNAYLIS 2018/09/06<br>APPR: DNAYLIS 2018/09/06 |       |           |                          |                 |          | 12 CKT HSAUTOLINK II<br>VERT SEALED HEADER ASSEMBLY |
|                                                                                                                                                                                                                                                                                                                                                       | ANGULAR TOL ± 1.0 °                                                                                                                           |  |        |  |                                                                                                    |       |           |                          |                 |          |                                                     |
|                                                                                                                                                                                                                                                                                                                                                       | 4 PLACES                                                                                                                                      |  | ±      |  |                                                                                                    |       |           |                          |                 |          |                                                     |
|                                                                                                                                                                                                                                                                                                                                                       | 3 PLACES                                                                                                                                      |  | ±      |  | INITIAL REVISION:<br>DRWN: KPATRA 2017/02/07<br>APPR: DNAYLIS 2018/01/03                           |       |           | PRODUCT CUSTOMER DRAWING |                 |          |                                                     |
|                                                                                                                                                                                                                                                                                                                                                       | 2 PLACES                                                                                                                                      |  | ± 0.13 |  |                                                                                                    |       |           |                          |                 |          |                                                     |
|                                                                                                                                                                                                                                                                                                                                                       | 1 PLACE                                                                                                                                       |  | ± 0.25 |  |                                                                                                    |       |           |                          |                 |          |                                                     |
|                                                                                                                                                                                                                                                                                                                                                       | 0 PLACES                                                                                                                                      |  | ±      |  | DOCUMENT NUMBER                                                                                    |       |           | DOC TYPE                 | DOC PART        | REVISION |                                                     |
|                                                                                                                                                                                                                                                                                                                                                       | DRAFT WHERE APPLICABLE<br>MUST REMAIN<br>WITHIN DIMENSIONS                                                                                    |  |        |  | THIRD ANGLE PROJECTION                                                                             |       | DRAWING   | SERIES                   | MATERIAL NUMBER |          | CUSTOMER                                            |
| <div><div></div><div></div></div>                                                                                                                                                                                                                                                                                                                     |                                                                                                                                               |  |        |  | D-SIZE                                                                                             | 34858 | SEE CHART |                          | GENERAL MARKET  | 3 OF 4   |                                                     |
|                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                               |  |        |  |                                                                                                    |       |           |                          |                 |          |                                                     |

| DOCUMENT STATUS | P1 | RELEASE DATE | 2018/09/06 | 17:10:11 |
|-----------------|----|--------------|------------|----------|
|-----------------|----|--------------|------------|----------|

SHEET DESCRIPTION  
RECOMMENDED PCB LAYOUT



PCB KEEP OUT REGIONS



| 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: CORRECT ECTR ERROR |                                                                                                    |  |                          | <div>molex</div> <div>12 CKT HSAUTOLINK II<br/>VERT SEALED HEADER ASSEMBLY</div> |         |  |           |  |                 |  |          |  |              |  |  |
| = 0             | mm                                                                                                                                            |       | GENERAL TOLERANCES (UNLESS SPECIFIED)                                    |                                      | EC NO: 604086<br>DRWN: DGILKEY 2018/09/06<br>CHK'D: DNAYLIS 2018/09/06<br>APPR: DNAYLIS 2018/09/06 |  |                          |                                                                                  |         |  |           |  |                 |  |          |  |              |  |  |
| = 0             |                                                                                                                                               |       |                                                                          |                                      |                                                                                                    |  |                          |                                                                                  |         |  |           |  |                 |  |          |  |              |  |  |
| = 0             |                                                                                                                                               |       |                                                                          |                                      |                                                                                                    |  |                          |                                                                                  |         |  |           |  |                 |  |          |  |              |  |  |
| = 0             | ANGULAR TOL ± 1.0°                                                                                                                            |       | INITIAL REVISION:<br>DRWN: KPATRA 2017/02/07<br>APPR: DNAYLIS 2018/01/03 |                                      |                                                                                                    |  | PRODUCT CUSTOMER DRAWING |                                                                                  |         |  |           |  |                 |  |          |  |              |  |  |
| = 0             | 4 PLACES ±                                                                                                                                    |       |                                                                          |                                      |                                                                                                    |  | DOCUMENT NUMBER          |                                                                                  |         |  | DOC TYPE  |  | DOC PART        |  | REVISION |  |              |  |  |
| = 0             | 3 PLACES ±                                                                                                                                    |       |                                                                          |                                      |                                                                                                    |  | SD-34858-002             |                                                                                  |         |  | PSD       |  | 000             |  | A5       |  |              |  |  |
| = 0             | 2 PLACES ± 0.13                                                                                                                               |       | DRAFT WHERE APPLICABLE<br>MUST REMAIN<br>WITHIN DIMENSIONS               |                                      |                                                                                                    |  | THIRD ANGLE PROJECTION   |                                                                                  | DRAWING |  | SERIES    |  | MATERIAL NUMBER |  | CUSTOMER |  | SHEET NUMBER |  |  |
| = 0             | 1 PLACE ± 0.25                                                                                                                                |       |                                                                          |                                      |                                                                                                    |  |                          |                                                                                  |         |  |           |  |                 |  |          |  |              |  |  |
| = 0             | 0 PLACES ±                                                                                                                                    |       |                                                                          |                                      |                                                                                                    |  |                          |                                                                                  |         |  |           |  |                 |  |          |  |              |  |  |
| = 0             |                                                                                                                                               |       |                                                                          |                                      |                                                                                                    |  | D-SIZE                   |                                                                                  | 34858   |  | SEE CHART |  | GENERAL MARKET  |  | 4 OF 4   |  |              |  |  |

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