

| TABLE 1: WITH CONDUCTIVE LOSSY OPTION |                                            |       |       |       |    |
|---------------------------------------|--------------------------------------------|-------|-------|-------|----|
| PART NUMBER                           | DESCRIPTION                                | A     | B     | C     | N  |
| IC13411-011                           | PLUG ASSEMBLY, 12 POSITION, REGULAR, LOSSY | 16.21 | 19.21 | 7.20  | 12 |
| IC13411-013                           | PLUG ASSEMBLY, 12 POSITION, SHORT, LOSSY   | 13.61 | 15.66 | 7.20  | 12 |
| IC13411-021                           | PLUG ASSEMBLY, 20 POSITION, REGULAR, LOSSY | 23.41 | 26.41 | 14.40 | 20 |
| IC13411-023                           | PLUG ASSEMBLY, 20 POSITION, SHORT, LOSSY   | 20.81 | 22.86 | 14.40 | 20 |
| IC13411-041                           | PLUG ASSEMBLY, 40 POSITION, REGULAR, LOSSY | 41.41 | 44.41 | 32.40 | 40 |
| IC13411-043                           | PLUG ASSEMBLY, 40 POSITION, SHORT, LOSSY   | 38.81 | 40.87 | 32.40 | 40 |
| IC13411-061                           | PLUG ASSEMBLY, 60 POSITION, REGULAR, LOSSY | 59.41 | 62.41 | 50.40 | 60 |
| IC13411-063                           | PLUG ASSEMBLY, 60 POSITION, SHORT, LOSSY   | 56.81 | 58.87 | 50.40 | 60 |
| IC13411-081                           | PLUG ASSEMBLY, 80 POSITION, REGULAR, LOSSY | 77.41 | 80.41 | 68.40 | 80 |
| IC13411-083                           | PLUG ASSEMBLY, 80 POSITION, SHORT, LOSSY   | 74.81 | 76.86 | 68.40 | 80 |

| TABLE 2: WITH NON-CONDUCTIVE LOSSY OPTION |                                                      |       |       |       |    |
|-------------------------------------------|------------------------------------------------------|-------|-------|-------|----|
| PART NUMBER                               | DESCRIPTION                                          | A     | B     | C     | N  |
| IC13411-012                               | PLUG ASSEMBLY, 12 POSITION, REGULAR, NON-COND. LOSSY | 16.21 | 19.21 | 7.20  | 12 |
| IC13411-014                               | PLUG ASSEMBLY, 12 POSITION, SHORT, NON-COND. LOSSY   | 13.61 | 15.66 | 7.20  | 12 |
| IC13411-022                               | PLUG ASSEMBLY, 20 POSITION, REGULAR, NON-COND. LOSSY | 23.41 | 26.41 | 14.40 | 20 |
| IC13411-024                               | PLUG ASSEMBLY, 20 POSITION, SHORT, NON-COND. LOSSY   | 20.81 | 22.86 | 14.40 | 20 |
| IC13411-042                               | PLUG ASSEMBLY, 40 POSITION, REGULAR, NON-COND. LOSSY | 41.41 | 44.41 | 32.40 | 40 |
| IC13411-044                               | PLUG ASSEMBLY, 40 POSITION, SHORT, NON-COND. LOSSY   | 38.81 | 40.87 | 32.40 | 40 |
| IC13411-062                               | PLUG ASSEMBLY, 60 POSITION, REGULAR, NON-COND. LOSSY | 59.41 | 62.41 | 50.40 | 60 |
| IC13411-064                               | PLUG ASSEMBLY, 60 POSITION, SHORT, NON-COND. LOSSY   | 56.81 | 58.87 | 50.40 | 60 |
| IC13411-082                               | PLUG ASSEMBLY, 80 POSITION, REGULAR, NON-COND. LOSSY | 77.41 | 80.41 | 68.40 | 80 |
| IC13411-084                               | PLUG ASSEMBLY, 80 POSITION, SHORT, NON-COND. LOSSY   | 74.81 | 76.86 | 68.40 | 80 |

IC13411 - 0 X X

POSITION

ASSEMBLY TYPE

- 1 = 12
- 2 = 20
- 4 = 40
- 6 = 60
- 8 = 80

- 1 = REGULAR (WITH GUIDE PINS) & CONDUCTIVE LOSSY
- 2 = REGULAR (WITH GUIDE PINS) & NON-CONDUCTIVE LOSSY
- 3 = SHORT (WITHOUT GUIDE PINS) & CONDUCTIVE LOSSY
- 4 = SHORT (WITHOUT GUIDE PINS) & NON-CONDUCTIVE LOSSY

NOTES:

1.

MATERIAL  
HOUSING: HIGH TEMPERATURE LCP, COLOR: BLACK  
CONTACT: COPPER ALLOY; THICKNESS: 0.12mm  
CONTACT PLATING: UNDERPLATE WITH NICKEL, THICKNESS: 1.27 MICROMETER  
HARD GOLD IN MATING AREA, THICKNESS: 0.76 MICROMETER  
PURE MATTE TIN ON CONTACT TAIL, THICKNESS: 2.54 TO 7.62 MICROMETER
2.

PLEASE REFER TO PRODUCT SPECIFICATION FOR MECHANICAL AND ELECTRICAL SPECIFICATION.
3.

DATUM B IS DEFINED AS THE PLANE INTERSECTING THE Ø1.10MM POST AND PARALLEL TO DATUM A
4.

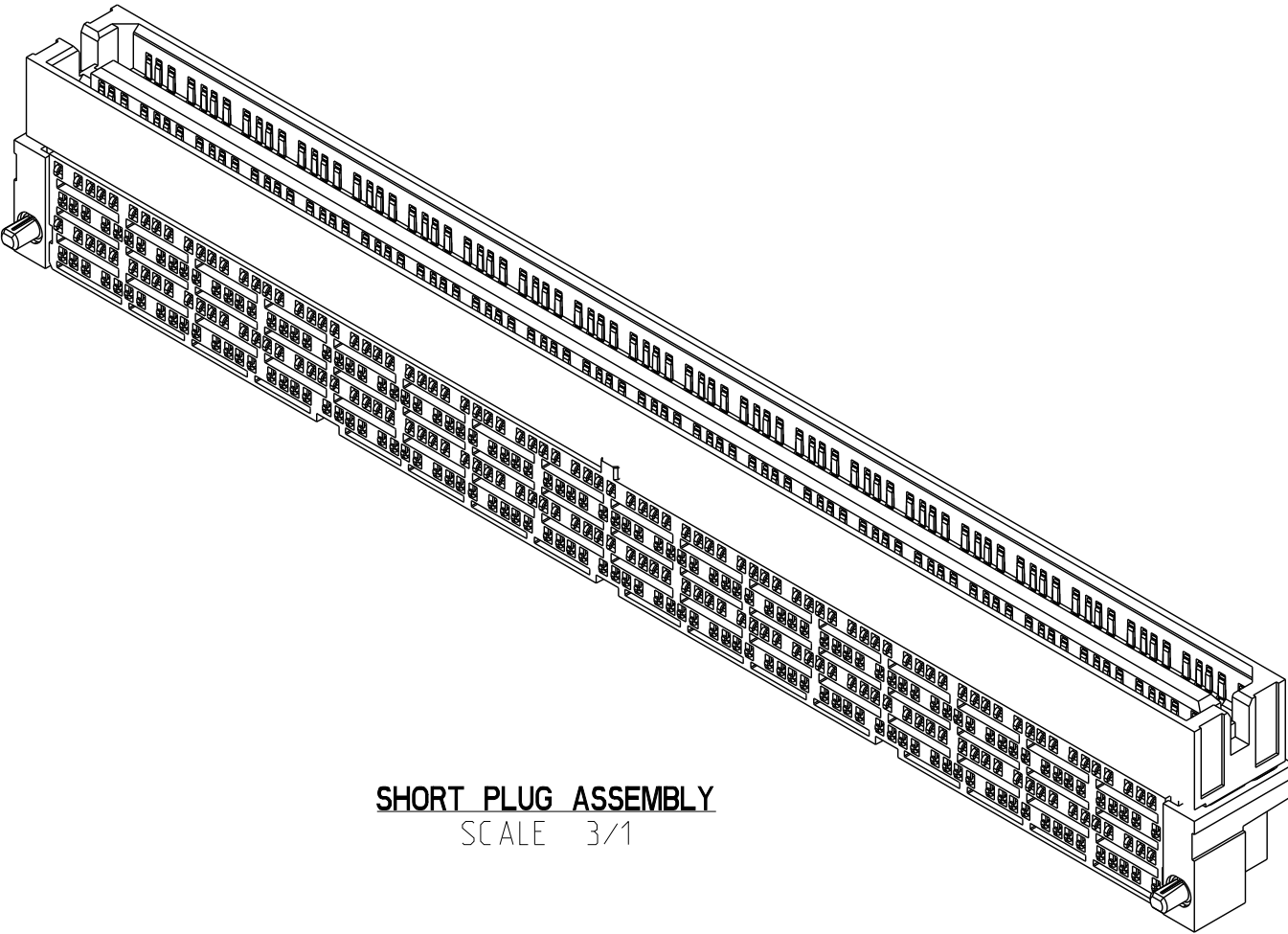
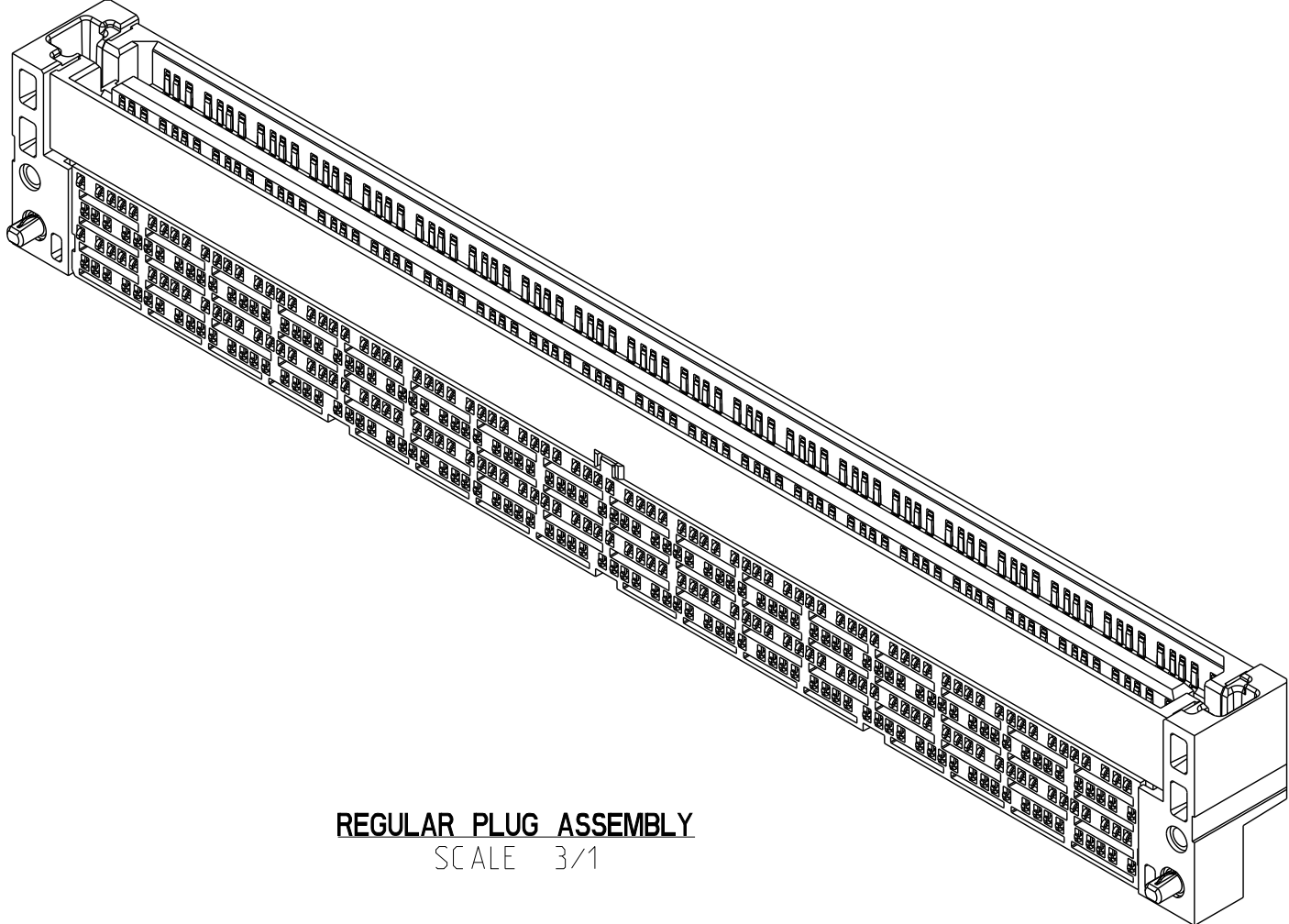
DATUM C IS DEFINED AS THE PLANE INTERSECTING THE Ø1.10MM POST AND PERPENDICULAR TO DATUM B.
5.

THIS DIMENSION IS MEASURED (FOR EACH SOLDER LEAD) AS THE DEVIATION FROM A BEST-FIT PLANE CREATED FROM THE SURFACES REFERENCED AT THE ENDS OF THE PART.
6.

THIS DIMENSION IS MEASURED (FOR EACH SOLDER LEAD) AS THE DEVIATION FROM A BEST-FIT PLANE CREATED FROM ALL THE SOLDER LEADS.
7.

THE RETENTION CLIP IS TO PROVIDE SUPPORT FOR THE CONNECTOR BEFORE AND DURING REFLOW

| REVISION HISTORY        |          |     |                                                                                              |            |            |            |
|-------------------------|----------|-----|----------------------------------------------------------------------------------------------|------------|------------|------------|
| ZONE                    | ECN#     | REV | DESCRIPTION                                                                                  | DATE       | CHANGED BY | APPROVED   |
| SH2<br>SH3              | EC-13407 | D   | ADDED CLIP WIDTH DIM<br>AND NOTE 7                                                           | 02/04/2020 | M.CHARETH  | D.McNAMARA |
| SH4<br>SH2.C7<br>SH3.C7 |          | E   | UPDATED SHORT PCB DIM B IN TABLE 4<br>ADDED DIMENSION FROM FRONT OF SHROUD<br>TO TIP OF LEAD | 07/30/2020 | M.CHARETH  | DM.CNAMARA |

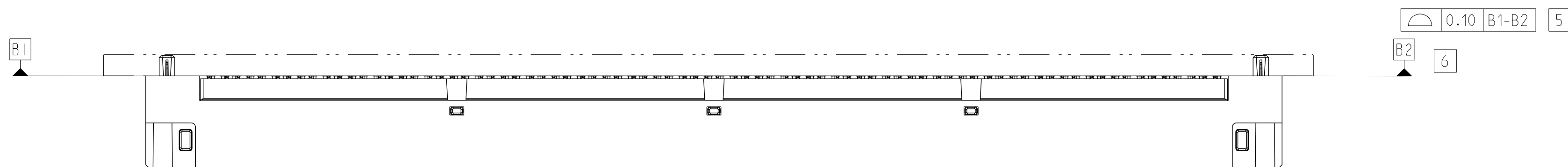
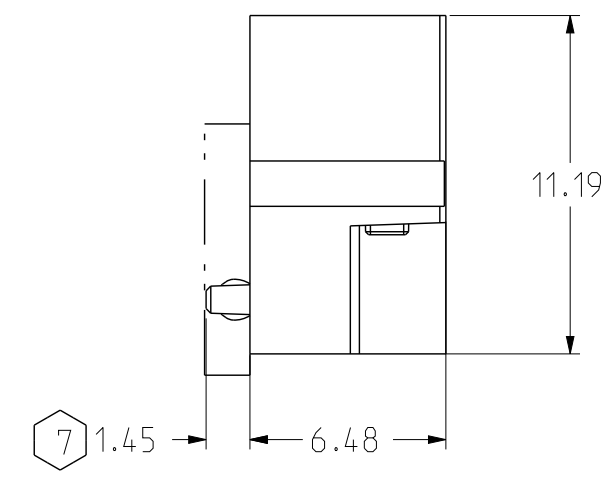
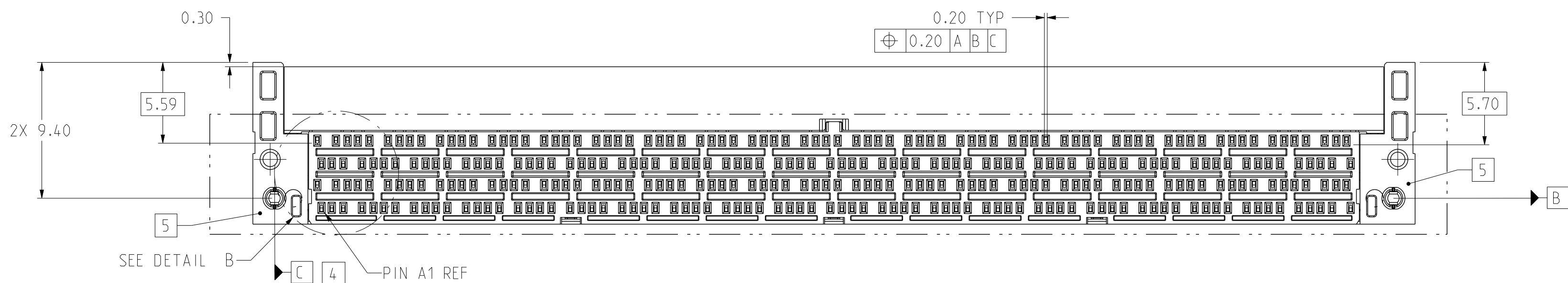
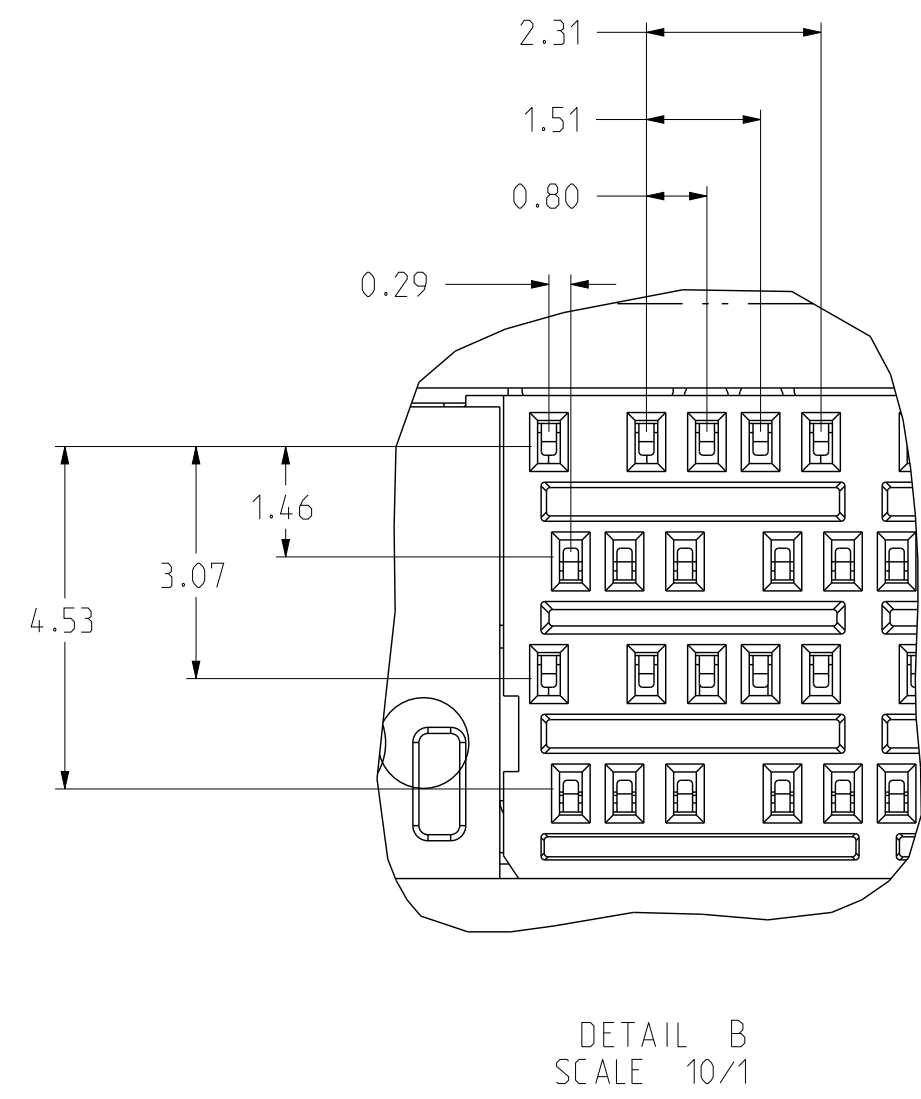
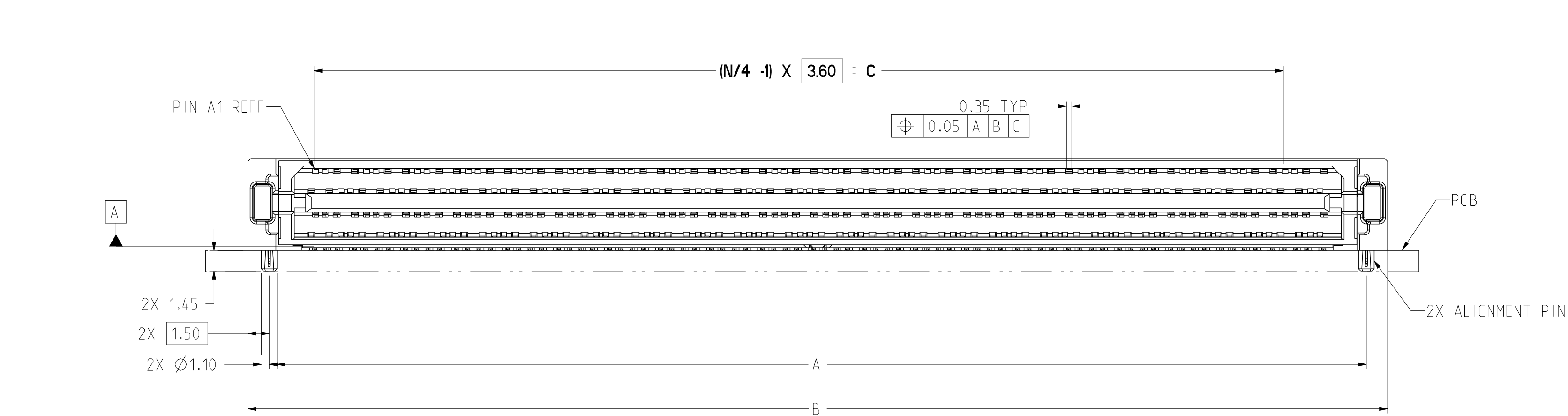


|                                                                                                                                                                         |          |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|
| DO NOT SCALE DRAWING<br>UNLESS OTHERWISE SPECIFIED<br>DIMENSIONS & TOLERANCES ARE<br>IN MILLIMETERS<br>DIMENSIONING PER ASME Y14.5M-2009<br>TOLERANCES UNLESS SPECIFIED |          |
| 0.0                                                                                                                                                                     | = ± 0.15 |
| 0.00                                                                                                                                                                    | = ± 0.05 |
| 0.000                                                                                                                                                                   | = ± .    |
| ANGLES                                                                                                                                                                  | = ± °    |
| INSPECTION DIMENSION<br>(REFERENCE DIMENSION)                                                                                                                           |          |
| THIRD ANGLE PROJECTION                                                                                                                                                  |          |
|                                                                                                                                                                         |          |

| APPROVALS                                                                                                                                                                                                                                                                                      |            | DATE       |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|------------|
| DRAWN BY:                                                                                                                                                                                                                                                                                      | HCL-SA     | 03/15/2019 |
| CHK'D BY:                                                                                                                                                                                                                                                                                      | M.CHARETH  | 03/15/2019 |
| DESIGNED BY/PROJ. ENG:                                                                                                                                                                                                                                                                         | D.McNAMARA | 02/15/2019 |
| PROCESS ENGINEERING:                                                                                                                                                                                                                                                                           | M.CHARETH  | 03/15/2019 |
| THESE DRAWINGS AND SPECIFICATIONS ARE THE PROPERTY OF AMPHENOL CORPORATION<br>AMPHENOL INTERCON - A DIVISION OF AMPHENOL CORPORATION AND SHALL NOT BE REPRODUCED, COPIED OR USED AS THE BASIS FOR THE MANUFACTURE OR SALE OF APPARATUS WITHOUT THE WRITTEN PERMISSION OF AMPHENOL CORPORATION. |            |            |

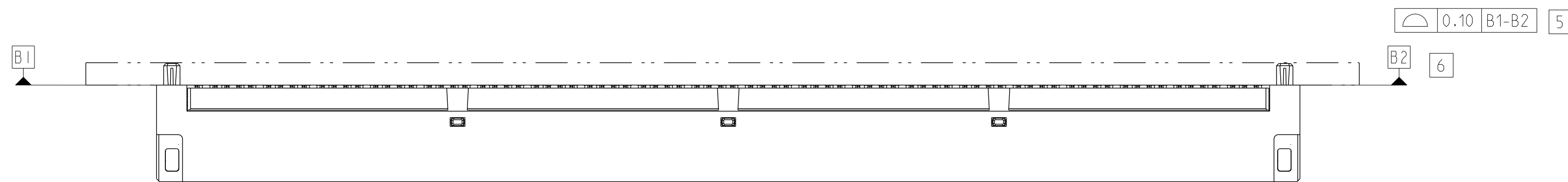
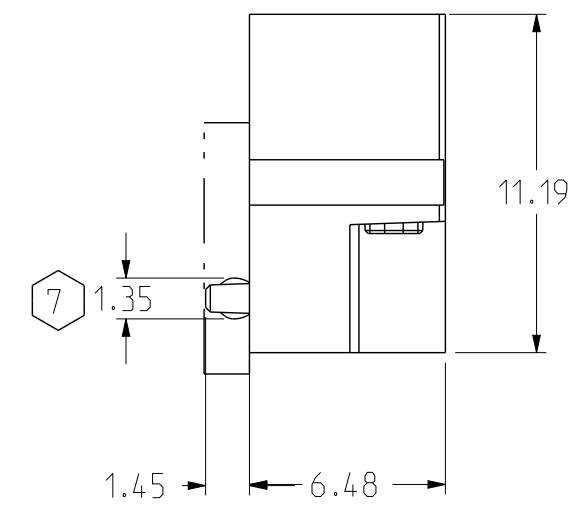
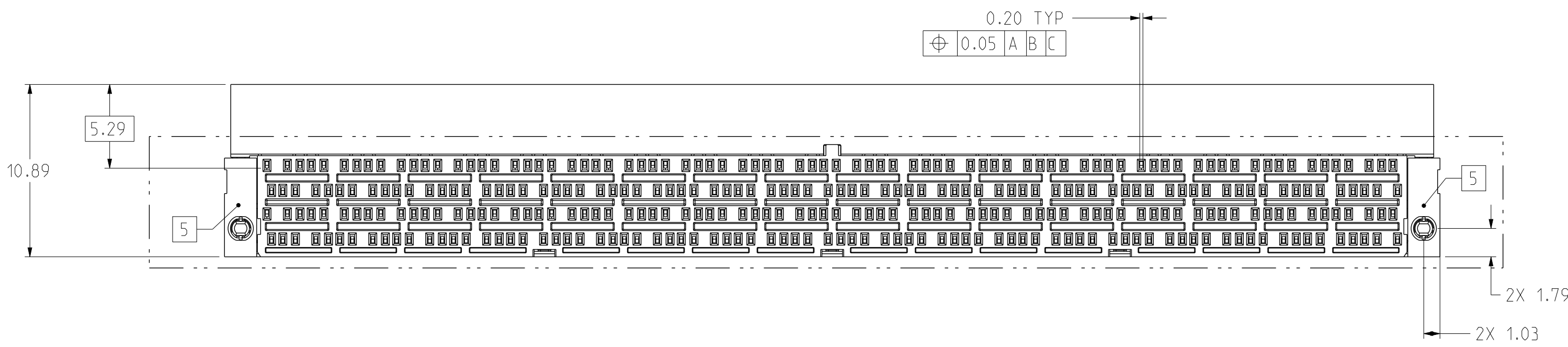
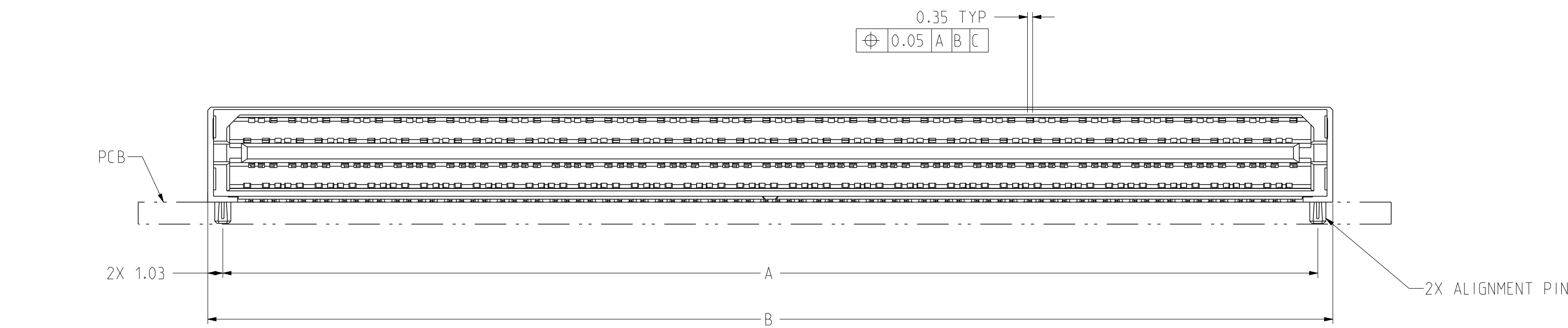
|                                                                                       |                                  |                                                                                                   |                 |
|---------------------------------------------------------------------------------------|----------------------------------|---------------------------------------------------------------------------------------------------|-----------------|
|  |                                  | AMPHENOL INTERCON SYSTEMS INC.<br>825 OLD TRAIL RD, SUITE A<br>ETTERS, PA 17319<br>(717) 915-1400 |                 |
| TITLE:<br><br><div>LYNX QD PLUG ASSEMBLY<br/>RIGHT ANGLE</div>                        |                                  |                                                                                                   |                 |
| SIZE<br><b>D</b>                                                                      | DRAWING NO.<br><br><b>13411C</b> |                                                                                                   | REV<br><b>E</b> |
| SCALE: 3/1                                                                            |                                  | DWG TYPE: CUSTOMER USE                                                                            | SHEET: 1 OF 5   |





## REGULAR PLUG ASSEMBLY





## SHORT PLUG ASSEMBLY

### NOTE:

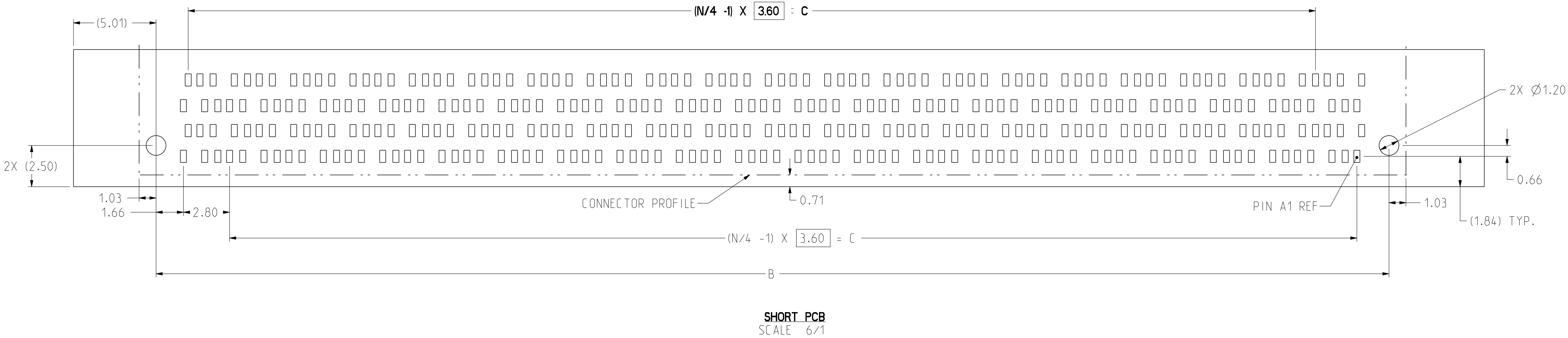
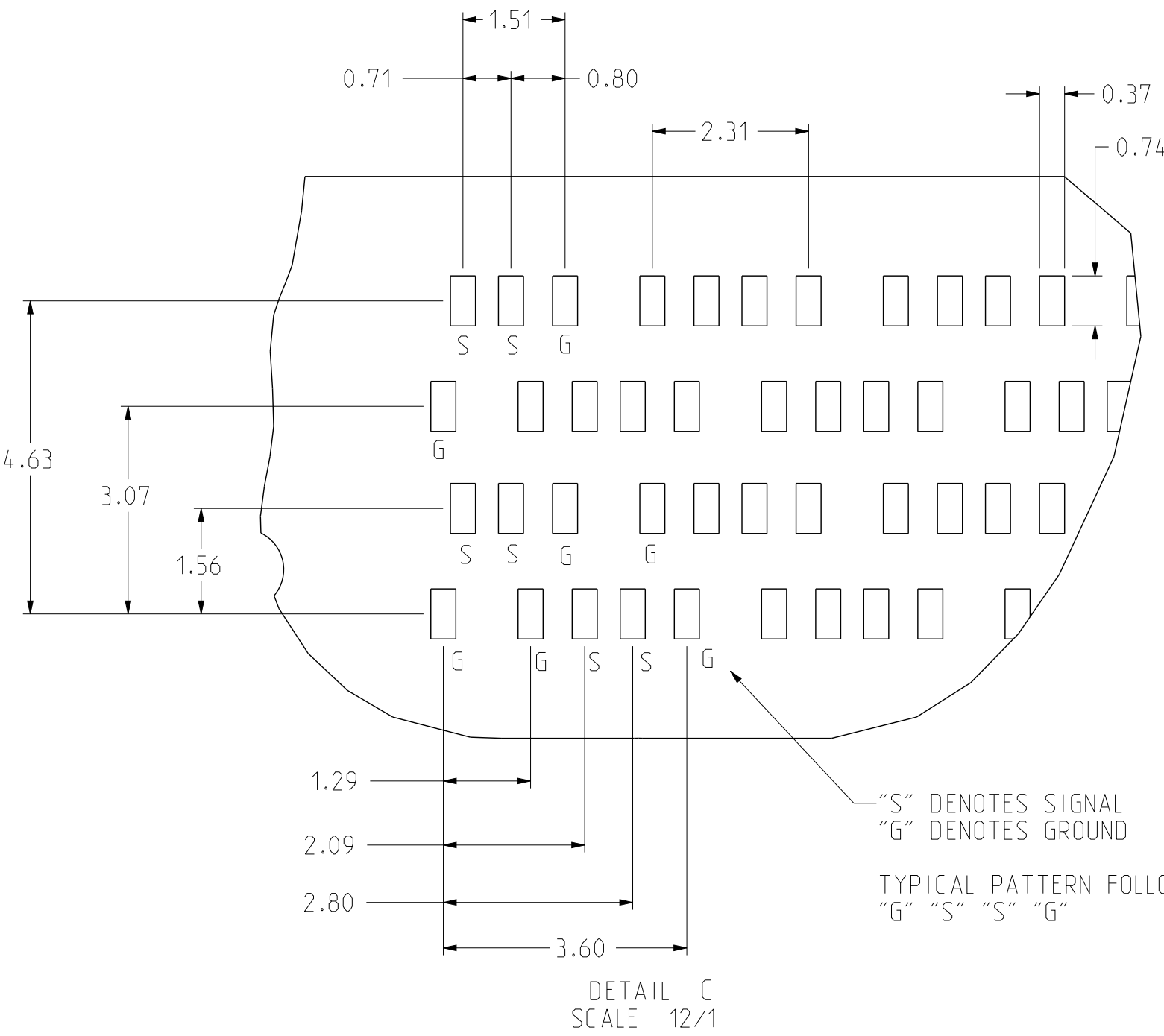
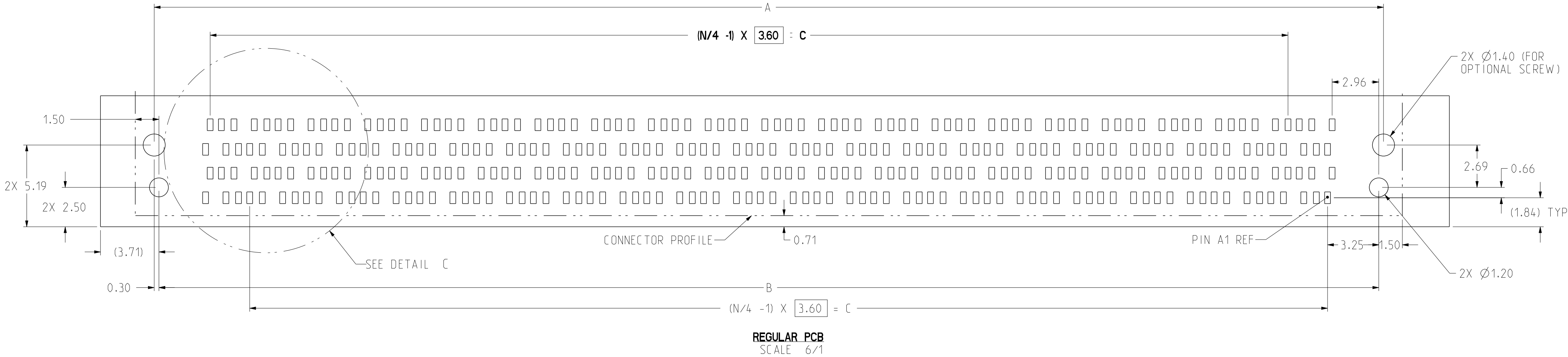
OTHER DIMENSION AND FEATURES WILL REMAIN SAME AS REGULAR PLUG ASSEMBLY.



| TABLE 3: REGULAR PCB |    |       |       |       |
|----------------------|----|-------|-------|-------|
| PART NUMBER          | N  | A     | B     | C     |
| IC 13411-01(1,2)     | 12 | 16.81 | 16.21 | 7.20  |
| IC 13411-02(1,2)     | 20 | 24.01 | 23.41 | 14.40 |
| IC 13411-04(1,2)     | 40 | 42.01 | 41.41 | 32.40 |
| IC 13411-06(1,2)     | 60 | 60.01 | 59.41 | 50.40 |
| IC 13411-08(1,2)     | 80 | 78.01 | 77.41 | 68.40 |

| TABLE 4: SHORT PCB |    |       |       |
|--------------------|----|-------|-------|
| PART NUMBER        | N  | B     | C     |
| IC 13411-01(3,4)   | 12 | 13.61 | 7.20  |
| IC 13411-02(3,4)   | 20 | 20.81 | 14.40 |
| IC 13411-04(3,4)   | 40 | 36.81 | 32.40 |
| IC 13411-06(3,4)   | 60 | 52.81 | 50.40 |
| IC 13411-08(3,4)   | 80 | 74.81 | 68.40 |

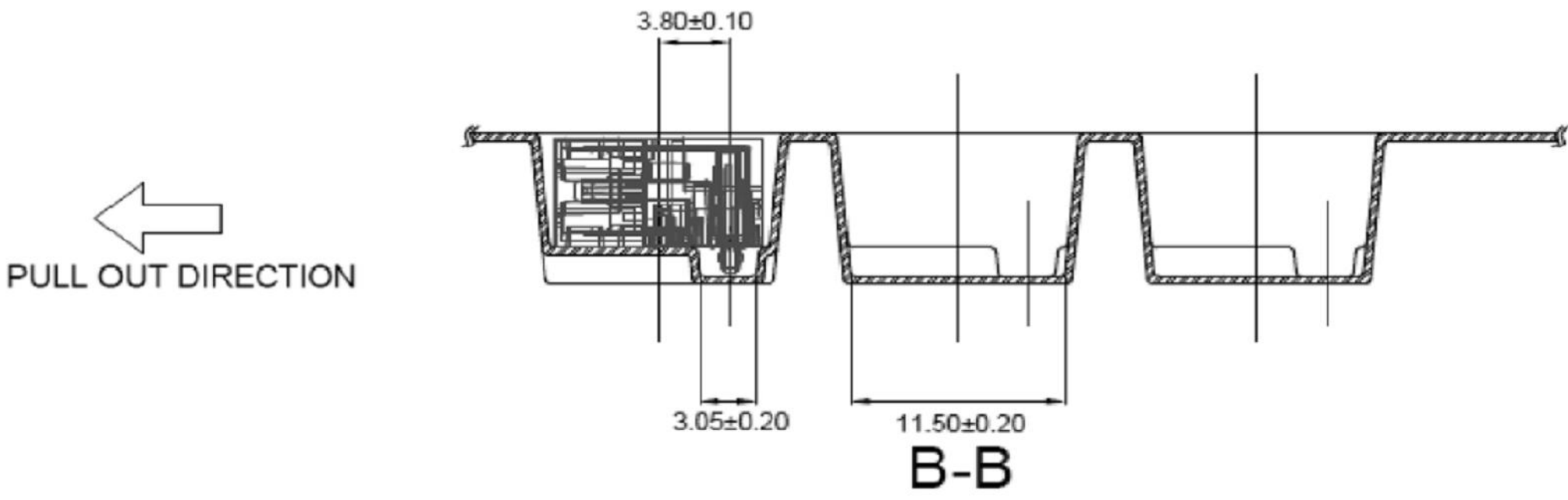
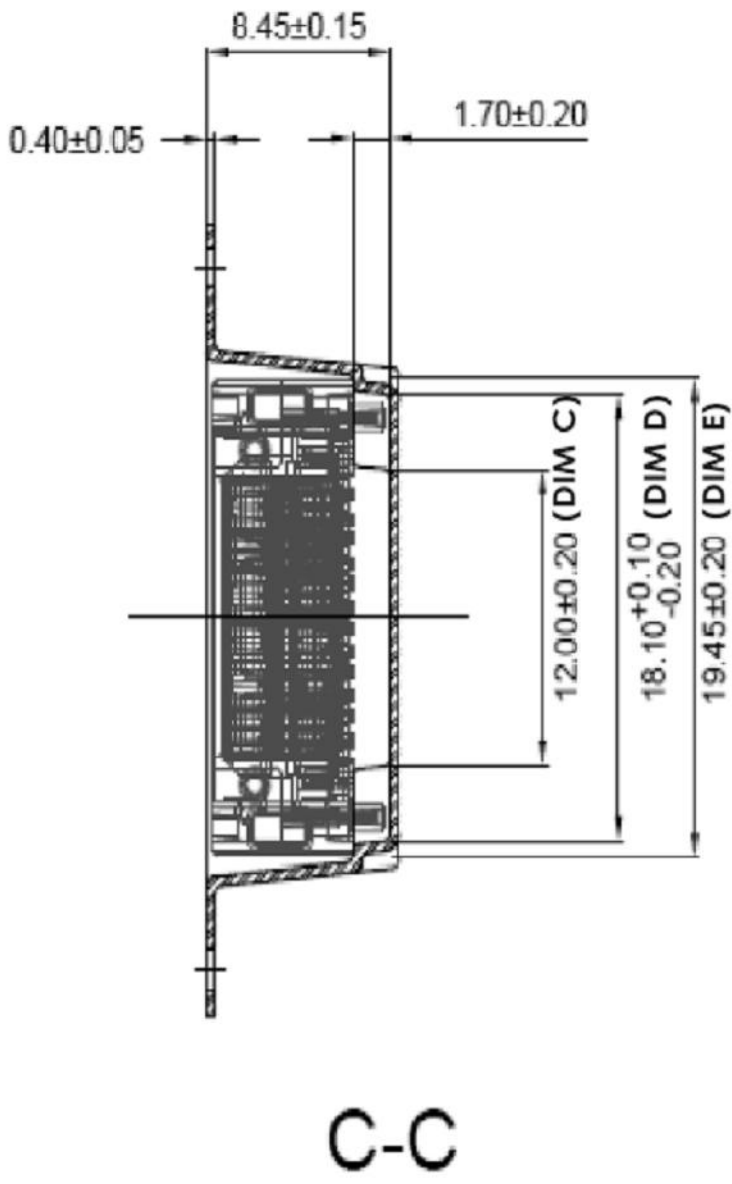
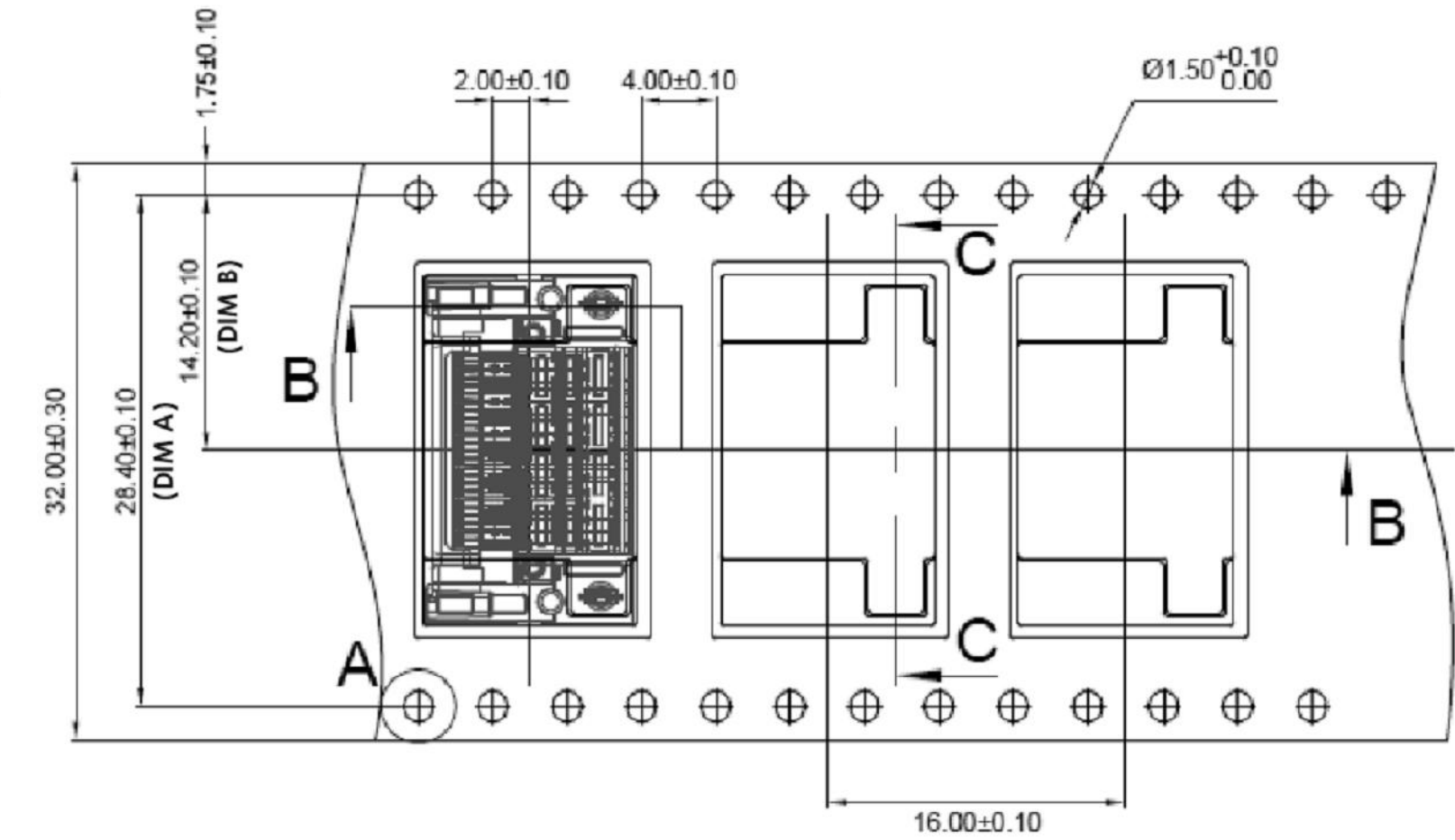
| LYNX QD PINOUT - PATTERN CONTINUES - 12pos SHOWN |     |     |     |     |    |
|--------------------------------------------------|-----|-----|-----|-----|----|
|                                                  | A   | B   | C   | D   |    |
| 1                                                | SIG |     | SIG |     | 1  |
| 2                                                | SIG | GND | SIG | GND | 2  |
| 3                                                |     | SIG |     | SIG | 3  |
| 4                                                | GND | SIG | GND | SIG | 4  |
| 5                                                | SIG |     | SIG |     | 5  |
| 6                                                | SIG | GND | SIG | GND | 6  |
| 7                                                |     | SIG |     | SIG | 7  |
| 8                                                | GND | SIG | GND | SIG | 8  |
| 9                                                | SIG |     | SIG |     | 9  |
| 10                                               | SIG | GND | SIG | GND | 10 |
| 11                                               |     | SIG |     | SIG | 11 |
| 12                                               | GND | SIG | GND | SIG | 12 |
|                                                  | A   | B   | C   | D   |    |





| TABLE 5: TAPE AND REEL DIMENSION TABLE |            |                     |        |       |       |       |       |
|----------------------------------------|------------|---------------------|--------|-------|-------|-------|-------|
| POSITION                               | TAPE WIDTH | CONNECTORS PER REEL | DIM A  | DIM B | DIM C | DIM D | DIM E |
| 12                                     | 32         | 700                 | 28.40  | 14.20 | 12.00 | 18.10 | 19.45 |
| 12 - SHORT                             | 32         | 700                 | 28.40  | 14.20 | 12.00 | 15.50 | 15.90 |
| 20                                     | 44         | 700                 | 40.40  | 20.20 | 18.60 | 25.00 | 26.90 |
| 20 - SHORT                             | 44         | 700                 | 40.40  | 20.20 | 18.60 | 22.40 | 23.35 |
| 40                                     | 72         | 700                 | 68.40  | 34.20 | 36.60 | 43.00 | 44.90 |
| 40 - SHORT                             | 72         | 700                 | 68.40  | 34.20 | 36.60 | 40.40 | 41.35 |
| 60                                     | 88         | 400                 | 84.40  | 42.20 | 54.60 | 61.00 | 62.90 |
| 60 - SHORT                             | 88         | 400                 | 84.40  | 42.20 | 54.60 | 58.40 | 59.35 |
| 80                                     | 104        | 400                 | 100.40 | 50.20 | 72.60 | 79.00 | 80.90 |
| 80 - SHORT                             | 104        | 400                 | 100.40 | 50.20 | 72.60 | 76.40 | 77.35 |

RA PLUG CARRIER TAPE FOR  
12 POSITION IS SHOWN FOR REFERENCE



# Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

[Amphenol:](#)

[13411-042](#) [13411-012](#) [13411-022](#) [IC13411022](#) [IC13411042](#) [IC13411012](#)