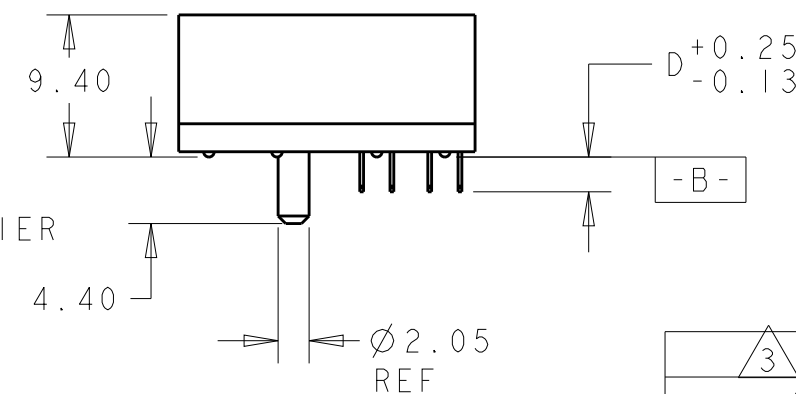
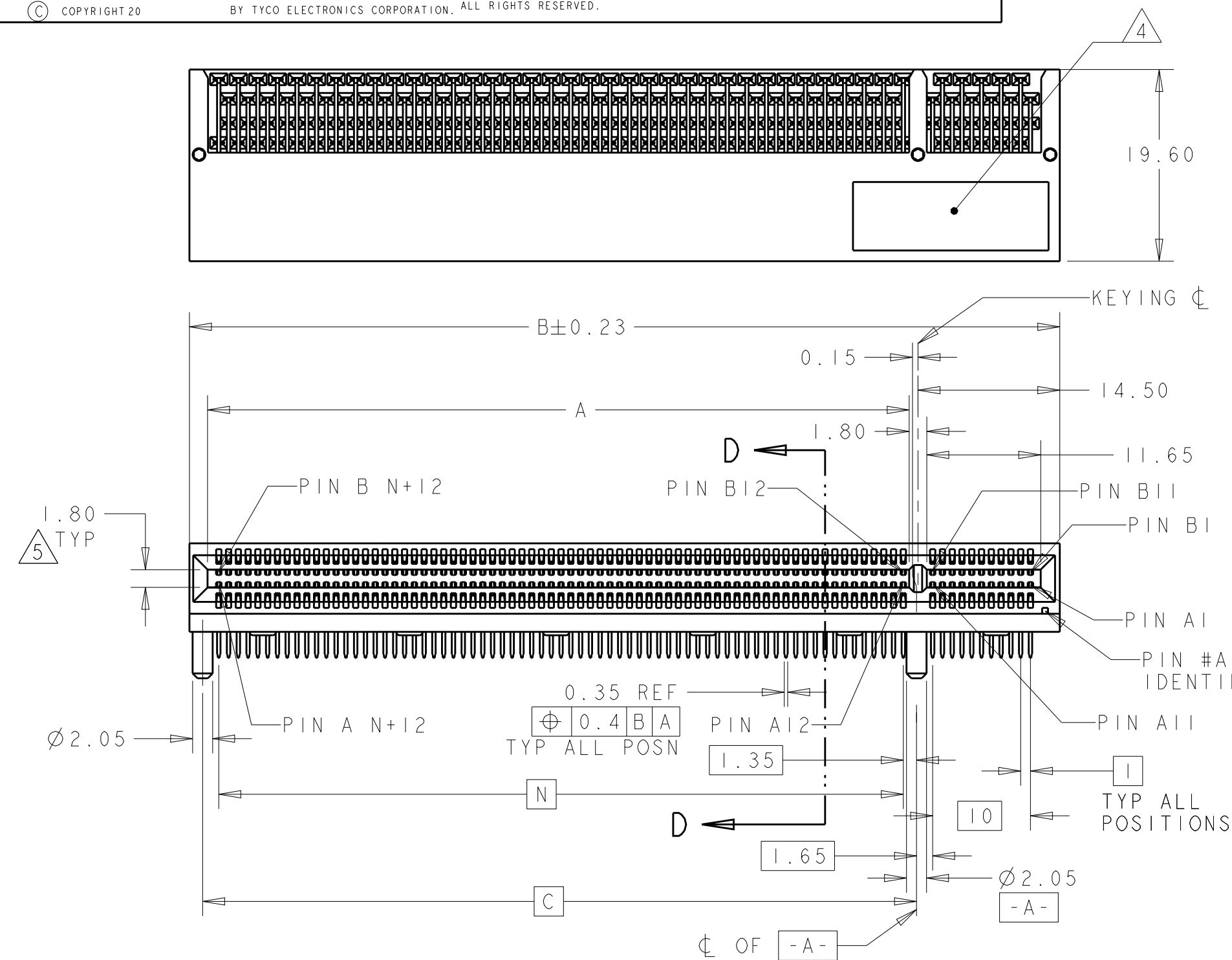


|     |      |          |     |                            |           |     |      |
|-----|------|----------|-----|----------------------------|-----------|-----|------|
| LOC | DIST | REVISONS |     |                            |           |     |      |
| GP  | 00   | P        | LTR | DESCRIPTION                | DATE      | DWN | APVD |
|     |      |          | A   | RELEASED PER ECO-09-016675 | 07AUG2009 | CR  | PR   |
|     |      |          | B   | REVISED PER ECO-10-.013513 | 29JUN2010 | CJV | PAR  |
|     |      |          | C   | REVISED PER ECO-15-015156  | 14MAR2016 | FL  | SY   |
|     |      |          |     |                            |           |     |      |



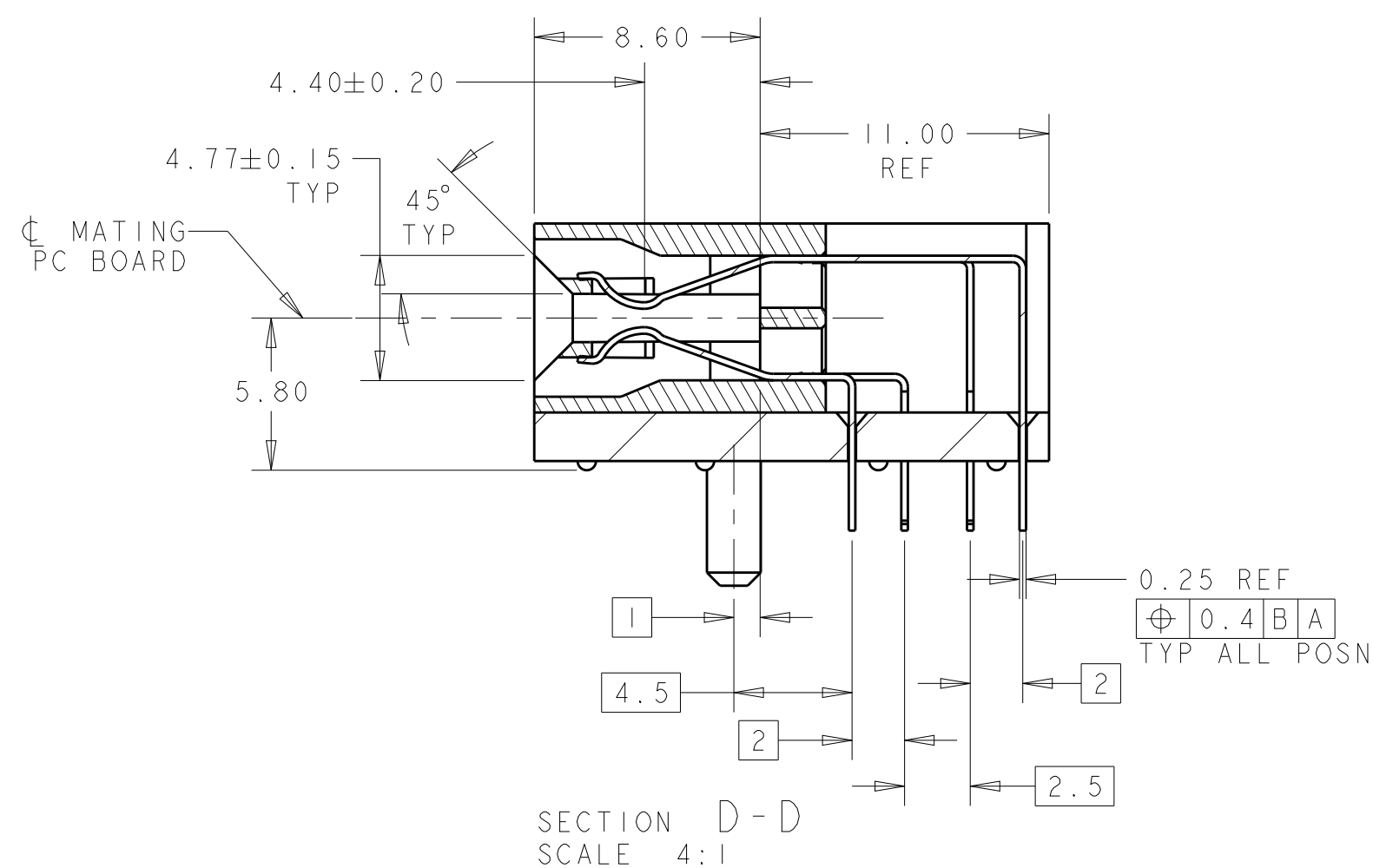
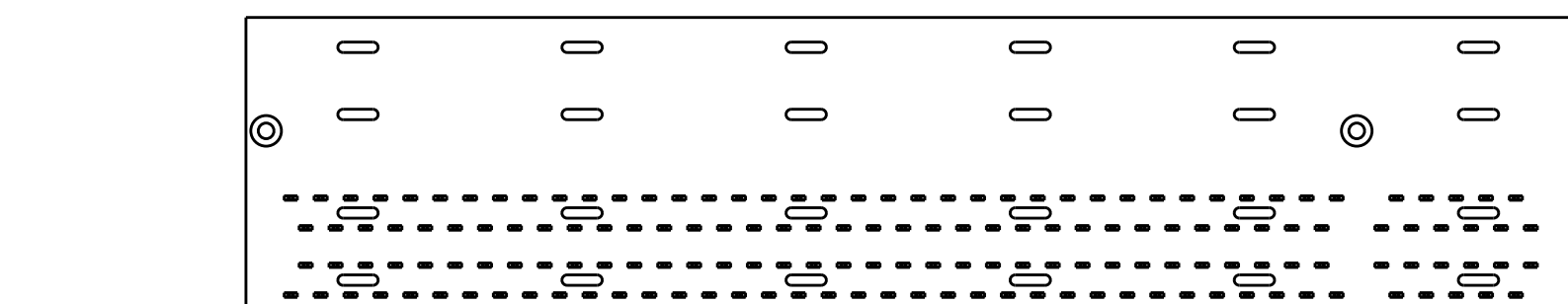
 MATERIAL: HOUSING: HIGH TEMP NYLON, UL 94V-0  
COLOR: BLACK  
TINE PLATE: LCP, UL 94V-0,  
COLOR: BLACK.  
CONTACT: PHOSPHOR BRONZE

2 FINISH: CONTACT AREA: GOLD PLATE 0.76μm MIN THICK OVER  
NICKEL UNDERPLATE.  
TINE AREA: TIN PLATE OVER NICKEL UNDERPLATE.

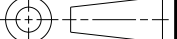
3 FINISH: CONTACT AREA: GOLD PLATE 0.38μm MIN THICK OVER  
NICKEL UNDERPLATE.  
TINE AREA: TIN PLATE OVER NICKEL UNDERPLATE.

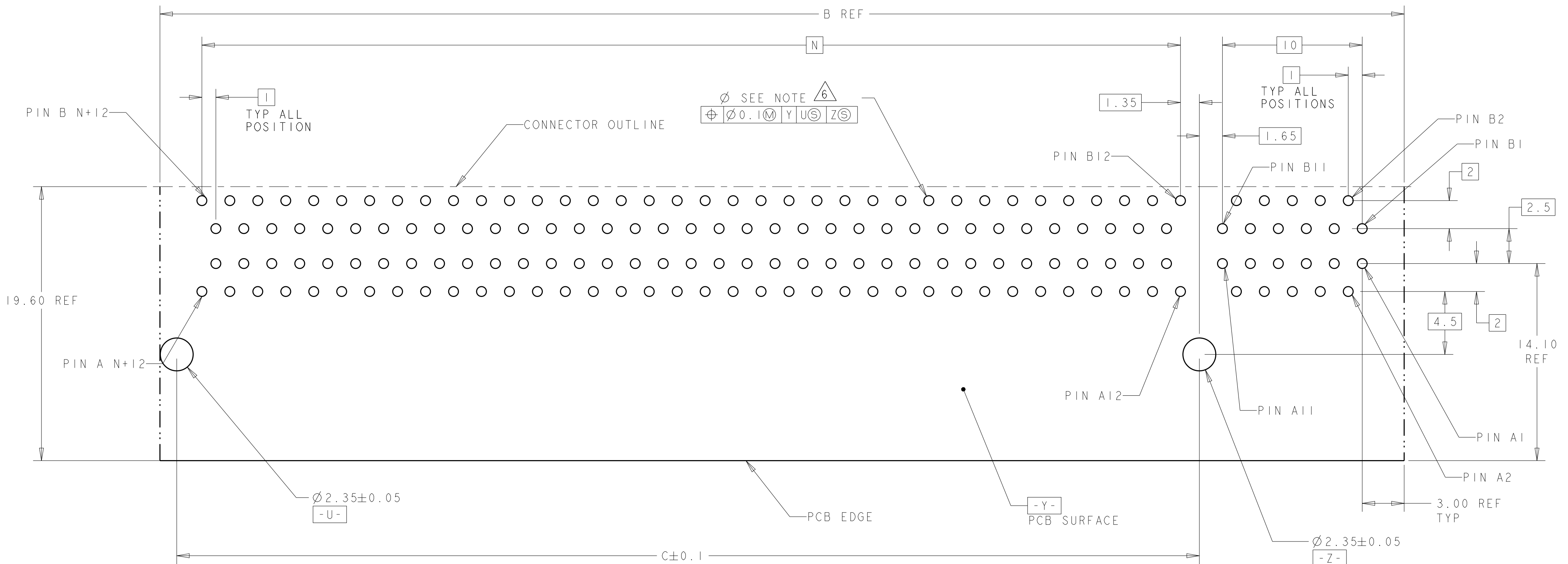
 COMPANY LOGO IN APPROXIMATE AREA SHOWN.

5 SLOT ACCEPTS STANDARD 1.57mm±10% THICK ADD-IN CARD.



|        |        |        |      |        |        |        |      |      |             |
|--------|--------|--------|------|--------|--------|--------|------|------|-------------|
| 3      | 128.00 | 130.15 | 3.56 | 131.15 | 147.00 | 129.65 | 280  | -    | 5-1761465-5 |
| 3      | 70.00  | 72.15  | 3.56 | 73.15  | 89.00  | 71.65  | 164  | 16   | 5-1761465-4 |
| 3      | 37.00  | 39.15  | 3.56 | 40.15  | 56.00  | 38.65  | 98   | 8    | 5-1761465-3 |
| 3      | 20.00  | 22.15  | 3.56 | 23.15  | 39.00  | 21.65  | 64   | 4    | 5-1761465-2 |
| 3      | 6.00   | 8.15   | 3.56 | 9.15   | 25.00  | 7.65   | 36   | 1    | 5-1761465-1 |
| 2      | 128.00 | 130.15 | 3.56 | 131.15 | 147.00 | 129.65 | 280  | -    | 4-1761465-5 |
| 2      | 70.00  | 72.15  | 3.56 | 73.15  | 89.00  | 71.65  | 164  | 16   | 4-1761465-4 |
| 2      | 37.00  | 39.15  | 3.56 | 40.15  | 56.00  | 38.65  | 98   | 8    | 4-1761465-3 |
| 2      | 20.00  | 22.15  | 3.56 | 23.15  | 39.00  | 21.65  | 64   | 4    | 4-1761465-2 |
| 2      | 6.00   | 8.15   | 3.56 | 9.15   | 25.00  | 7.65   | 36   | 1    | 4-1761465-1 |
| 3      | 128.00 | 130.15 | 3.10 | 131.15 | 147.00 | 129.65 | 280  | -    | 3-1761465-5 |
| 3      | 70.00  | 72.15  | 3.10 | 73.15  | 89.00  | 71.65  | 164  | 16   | 3-1761465-4 |
| 3      | 37.00  | 39.15  | 3.10 | 40.15  | 56.00  | 38.65  | 98   | 8    | 3-1761465-3 |
| 3      | 20.00  | 22.15  | 3.10 | 23.15  | 39.00  | 21.65  | 64   | 4    | 3-1761465-2 |
| 3      | 6.00   | 8.15   | 3.10 | 9.15   | 25.00  | 7.65   | 36   | 1    | 3-1761465-1 |
| 3      | 128.00 | 130.15 | 2.30 | 131.15 | 147.00 | 129.65 | 280  | -    | 2-1761465-5 |
| 3      | 70.00  | 72.15  | 2.30 | 73.15  | 89.00  | 71.65  | 164  | 16   | 2-1761465-4 |
| 3      | 37.00  | 39.15  | 2.30 | 40.15  | 56.00  | 38.65  | 98   | 8    | 2-1761465-3 |
| 3      | 20.00  | 22.15  | 2.30 | 23.15  | 39.00  | 21.65  | 64   | 4    | 2-1761465-2 |
| 3      | 6.00   | 8.15   | 2.30 | 9.15   | 25.00  | 7.65   | 36   | 1    | 2-1761465-1 |
| 2      | 128.00 | 130.15 | 3.10 | 131.15 | 147.00 | 129.65 | 280  | -    | 1-1761465-5 |
| 2      | 70.00  | 72.15  | 3.10 | 73.15  | 89.00  | 71.65  | 164  | 16   | 1-1761465-4 |
| 2      | 37.00  | 39.15  | 3.10 | 40.15  | 56.00  | 38.65  | 98   | 8    | 1-1761465-3 |
| 2      | 20.00  | 22.15  | 3.10 | 23.15  | 39.00  | 21.65  | 64   | 4    | 1-1761465-2 |
| 2      | 6.00   | 8.15   | 3.10 | 9.15   | 25.00  | 7.65   | 36   | 1    | 1-1761465-1 |
| 2      | 128.00 | 130.15 | 2.30 | 131.15 | 147.00 | 129.65 | 280  | -    | 1761465-5   |
| 2      | 70.00  | 72.15  | 2.30 | 73.15  | 89.00  | 71.65  | 164  | 16   | 1761465-4   |
| 2      | 37.00  | 39.15  | 2.30 | 40.15  | 56.00  | 38.65  | 98   | 8    | 1761465-3   |
| 2      | 20.00  | 22.15  | 2.30 | 23.15  | 39.00  | 21.65  | 64   | 4    | 1761465-2   |
| 2      | 6.00   | 8.15   | 2.30 | 9.15   | 25.00  | 7.65   | 36   | 1    | 1761465-1   |
| FINISH | N      | E      | D    | C      | B      | A      | POSN | PORT | PART NO     |

|                                                                                                                                                                                                |  |                                            |  |                                                                    |  |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--------------------------------------------|--|--------------------------------------------------------------------|--|
| THIS DRAWING IS A CONTROLLED DOCUMENT FOR TYCO ELECTRONICS CORPORATION<br>IT IS SUBJECT TO CHANGE AND THE CONTROLLING ENGINEERING ORGANIZATION<br>SHOULD BE CONTACTED FOR THE LATEST REVISION. |  | DWN<br>R. TREA<br>09SEP2004                |  | Tyco Electronics<br>Tyco Electronics<br>Harrisburg, PA 17105-3608  |  |
| DIMENSIONS:                                                                                                                                                                                    |  | TOLERANCES UNLESS OTHERWISE SPECIFIED:     |  | NAME                                                               |  |
| mm                                                                                                                                                                                             |  | D. DEFIBAUGH<br>09SEP2004                  |  | PCI EXPRESS CARD EDGE CONNECTOR ASSEMBLY                           |  |
|                                                                                                           |  | APVD<br>D. DEFIBAUGH<br>09SEP2004          |  | RIGHT ANGLE, 5.8mm SLOT HEIGHT<br>THROUGH HOLE, ExpressModule TYPE |  |
| 0 PLC ±.0<br>1 PLC ±0.5<br>2 PLC ±0.13<br>3 PLC ±.013<br>4 PLC ±.<br>ANGLES ±° ±2°                                                                                                             |  | PRODUCT SPEC<br>-<br>APPLICATION SPEC<br>- |  | SIZE<br>A2                                                         |  |
| MATERIAL                                                                                                                                                                                       |  | WEIGHT -                                   |  | CAGE CODE<br>00779                                                 |  |
|                                                                                                           |  | FINISH                                     |  | DRAWING NO<br>C-1761465                                            |  |
| CUSTOMER DRAWING                                                                                                                                                                               |  | SCALE 2.1                                  |  | SHEET 1 OF 3 REV C                                                 |  |



RIGHT ANGLE, ExpressModule  
PCB LAYOUT  
SCALE 5:1

6 MANUFACTURING TOLERANCE FOR  $\varnothing 0.70 \pm 0.05$   
DIAMETER FINISHED HOLE WITH SnPB PLATING:  
DRILLED HOLE =  $\varnothing 0.79 \pm 0.02$   
COPPER PLATING =  $0.025 - 0.050$   
SnPB PLATING =  $0.0038 - 0.0124$

OR  $\varnothing 0.715 \pm 0.050$  FINISHED HOLE WITHOUT SnPB PLATING  
 DRILLED HOLE =  $\varnothing 0.79 \pm 0.02$   
 COPPER PLATING = 0.025-0.050

D

D

C

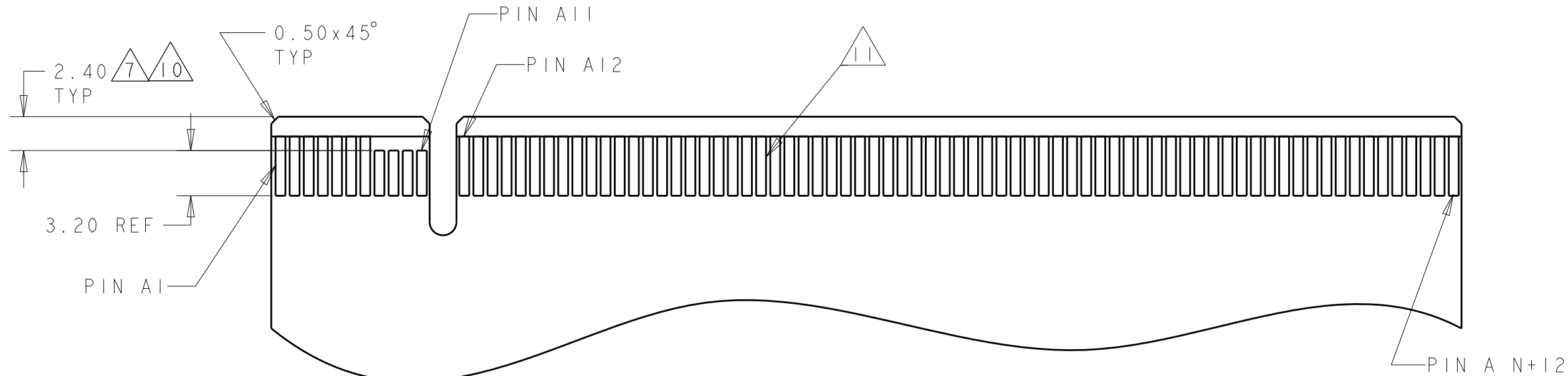
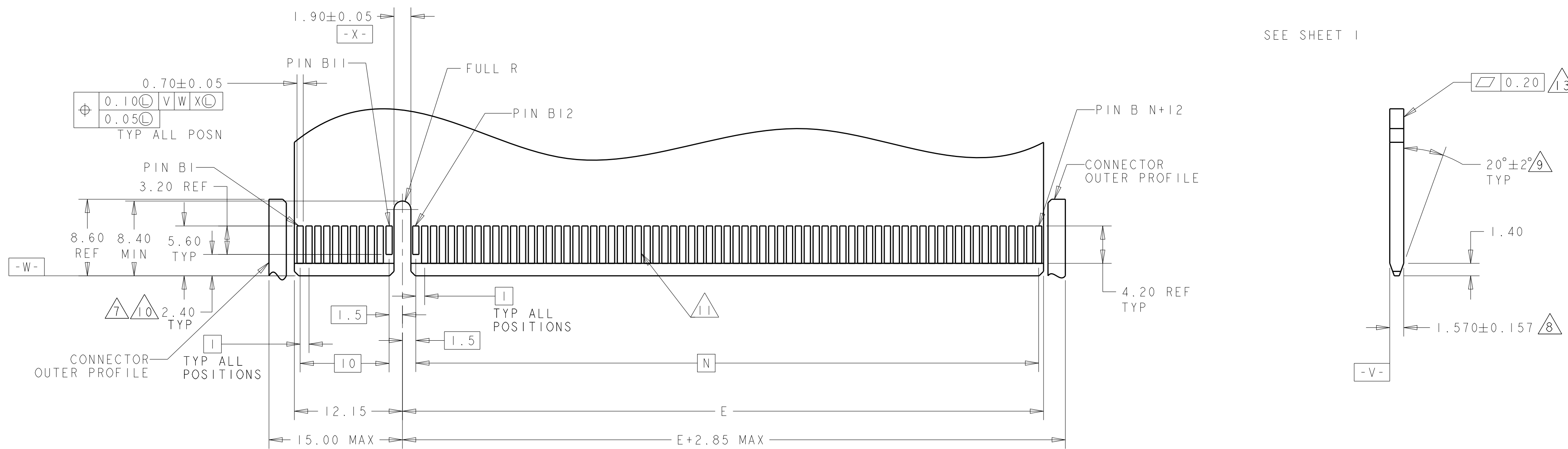
C

B

B

A

A



ExpressModule LAYOUT (MATING PART ONLY)

- 7 DIMENSION ONLY APPLIES TO "LAST MATE" PINS.
- 8 CARD THICKNESS APPLIES ACROSS PAD SURFACES AND INCLUDES PLATING AND/OR METALIZATION.
- 9 CHAMFER EDGES MUST BE FREE OF CUTTING BURRS.
- 10 NO TIE BAR PERMITTED FROM CARD EDGE TO LEADING EDGE OF "LAST MATE" PADS.
- 11 GOLD CONTACT PADS: ELECTROLESS GOLD PLATE 0.76µm MIN THICK OVER ELECTROLESS NICKEL PLATING 2µm MIN THICK.
- 12. PC BOARD SUPPLIER IS RESPONSIBLE FOR MAINTAINING ALL DIMENSIONS OF PC BOARD EDGE.
- 13 FLATNESS REQUIREMENT APPLIES FROM EDGE OF PC BOARD TO TOP OF KEY

|                    |      |      |
|--------------------|------|------|
| AI,B17,B31,B48,B81 | 280  | -    |
| AI,B17,B31,B48,B81 | 164  | 16   |
| AI,B17,B31,B48     | 98   | 8    |
| AI,B17,B31         | 64   | 4    |
| AI,B17             | 36   | 1    |
| LAST MATE PINS     | POS. | PORT |

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SHOULD BE CONTACTED FOR THE LATEST REVISION.

DIMENSIONS:  
mm

MATERIAL  
-

TOLERANCES UNLESS OTHERWISE SPECIFIED:  
0 PLC ±-  
1 PLC ±0.5  
2 PLC ±0.13  
3 PLC ±0.013  
4 PLC ±-  
ANGLES ±2°  
FINISH

DWN  
R. TREA 09SEP2004

CHK  
D. DEFLAUGH 09SEP2004

APVD  
D. DEFLAUGH 09SEP2004

PRODUCT SPEC  
-

APPLICATION SPEC  
-

WEIGHT  
-

CUSTOMER DRAWING

Tyco Electronics  
Harrisburg, PA 17105-3608

NAME  
PCI EXPRESS CARD EDGE CONNECTOR ASSEMBLY  
RIGHT ANGLE, 5.8mm SLOT HEIGHT  
THROUGH HOLE, ExpressModule TYPE

SIZE  
A2

CAGE CODE  
00779

DRAWING NO  
C-1761465

RESTRICTED TO  
-

SCALE  
4:1

SHEET  
3

OF  
3

REV  
C

# Mouser Electronics

Authorized Distributor

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[TE Connectivity:](#)

[3-1761465-2](#)