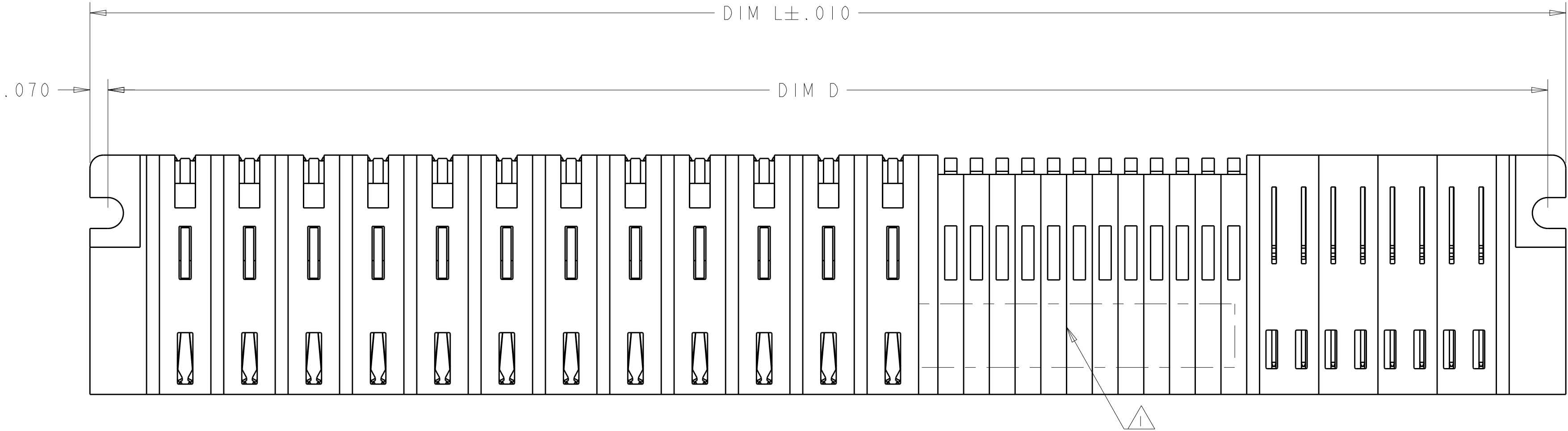
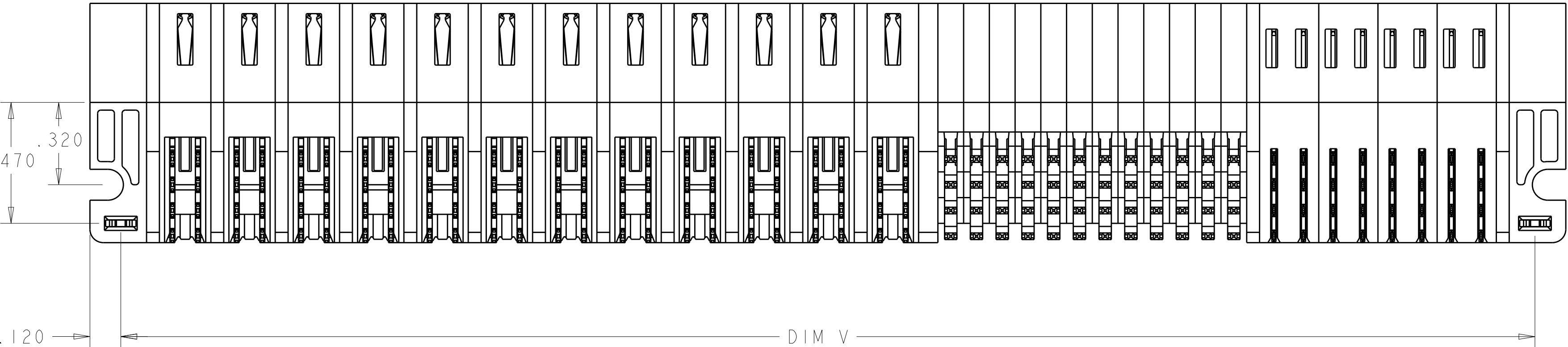
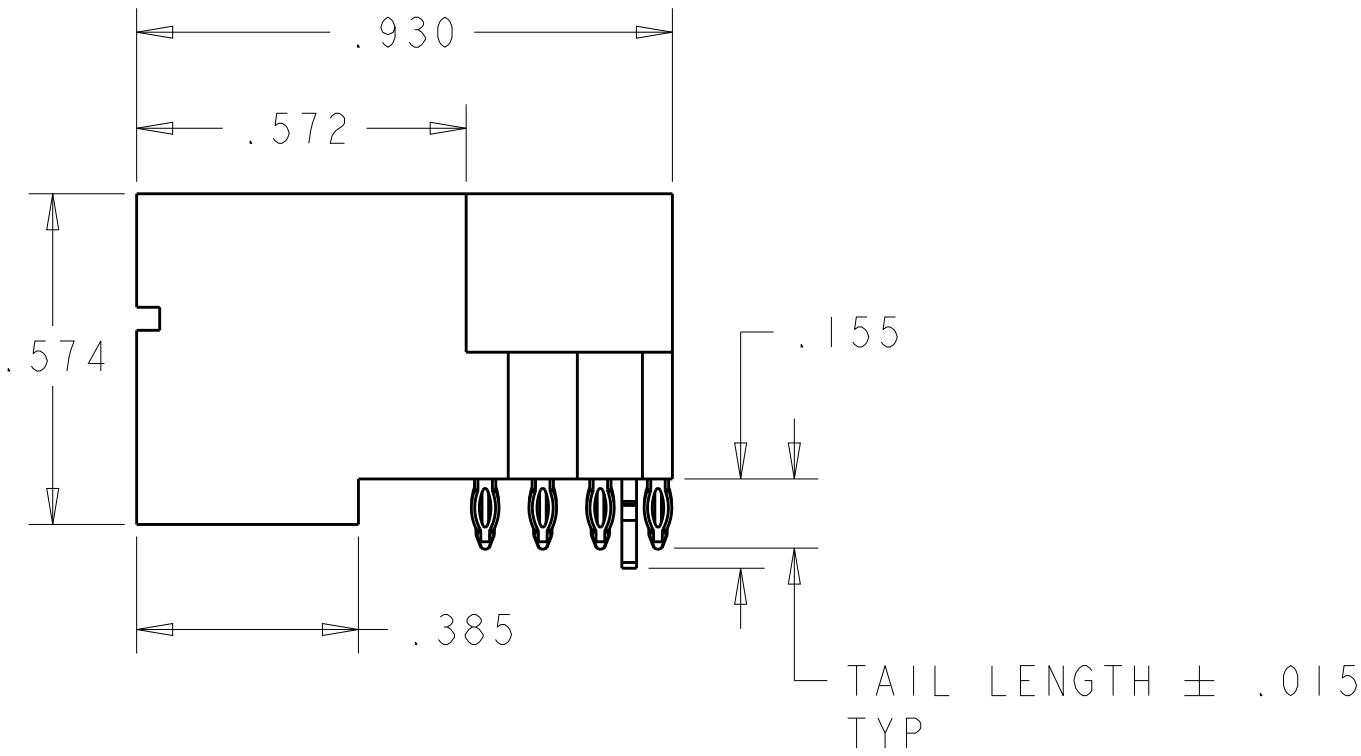
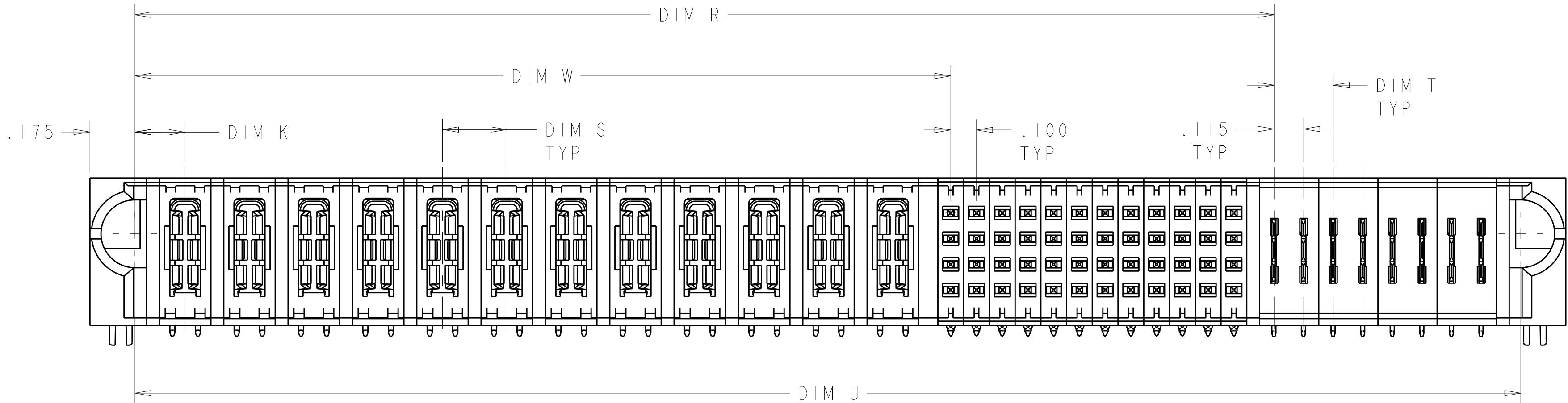


| LOC | DIST | REVISIONS |     |                               |           |     |      |  |
|-----|------|-----------|-----|-------------------------------|-----------|-----|------|--|
|     |      | P         | LTR | DESCRIPTION                   | DATE      | DWN | APVD |  |
| ES  | 00   |           | G9  | ADD NEW DASH NUMBER 2-9       | 04MAY2012 | CZ  | SZ   |  |
|     |      |           | H2  | REV PER ECR-12-020199         | 22NOV2012 | CZ  | SZ   |  |
|     |      |           | H4  | ADDED THE NEW DASH NUMBER -33 | 28DEC2012 | ML  | SZ   |  |
|     |      |           |     |                               |           |     |      |  |



- 1 "AMP", PART NUMBER, AND DATECODE TO BE MARKED IN AREA SHOWN. PARTS UNDER 2.00 LONG MAY BE MARKED ON BOTH SIDES.
- 2 MATERIAL:  
HOUSING - GLASS FILLED HIGH TEMP THERMO PLASTIC, BLACK, UL94 V-0  
SIGNAL CONTACT - COPPER ALLOY  
POWER CONTACT - HIGH CONDUCTIVITY COPPER ALLOY.
- 3 CONTACT PLATING - NOBLE METAL PLATING ON CONTACT FUNCTIONAL AREA OF POWER AND SIGNAL CONTACTS
- 4 MECHANICAL CONNECTOR KEEP OUT ZONE.
- 5 DATUM AND BASIC DIMENSIONS ESTABLISHED BY CUSTOMER.
- 6 PCB - HOLE DIAMETERS ARE FINISHED HOLE SIZE.
- 7 PCB - .0453±.0010 DRILLED HOLES PLATED WITH .0003 MIN Sn OVER .001 TO .003 Cu PLATING TO ACHIEVE A .040 DIA HOLE.
- 8 TO GENERAL POWER CONTACT (WITHOUT LP POWER CONTACT), VARIABLE DIMENSIONS PLEASE SEE SHEET 2.
- 9 PLEASE REFER TO PAGE 5 FOR DETAIL DIMENSIONS.
- 10 PLEASE REFER TO PAGE 7 FOR SPECIAL DIMENSIONS.
- 11 FOR LP/S/P CONFIGURATION, OR SPECIAL DIMENSIONS FOR PART 2-6450840-1, PLEASE REFER TO SHEET 2.



|                                        |  |                                                                                               |                                                           |                                                                                     |                    |
|----------------------------------------|--|-----------------------------------------------------------------------------------------------|-----------------------------------------------------------|-------------------------------------------------------------------------------------|--------------------|
| THIS DRAWING IS A CONTROLLED DOCUMENT. |  | DWN<br>ALEX SHOAL<br>CHK<br>Sunny Zhao<br>APVD<br>Sunny Zhao                                  | 14DEC2007<br>20DEC2007<br>20DEC2007                       | TE Connectivity                                                                     |                    |
| DIMENSIONS:<br>INCHES                  |  | TOLERANCES UNLESS<br>OTHERWISE SPECIFIED:                                                     | PRODUCT SPEC<br>108-2292<br>APPLICATION SPEC<br>114-13251 | NAME<br>RIGHT ANGLE HEADER<br>W/ LP CONTACT AND SHORT END MODULES<br>MULTI-BEAM XLE |                    |
| MATERIAL<br>2                          |  | 0 PLC ±"<br>1 PLC ±.01<br>2 PLC ±.01<br>3 PLC ±.005<br>4 PLC ±.0050<br>ANGLES ±2°<br>FINISH 3 | SIZE<br>100779                                            | CAGE CODE<br>C=6450840                                                              | RESTRICTED TO<br>- |
| Customer Drawing                       |  | SCALE<br>4:1                                                                                  | SHEET<br>1                                                | OF<br>16                                                                            | REV<br>H4          |

| LOC | DIST | REVISIONS |     |             |      |     |      |
|-----|------|-----------|-----|-------------|------|-----|------|
| ES  | 00   | P         | LTR | DESCRIPTION | DATE | DWN | APVD |
|     |      | -         |     | SEE SHEET 1 | -    | -   | -    |
|     |      |           |     |             |      |     |      |
|     |      |           |     |             |      |     |      |
|     |      |           |     |             |      |     |      |

|       |       |        |       |       |       |       |       |       |                      |             |
|-------|-------|--------|-------|-------|-------|-------|-------|-------|----------------------|-------------|
| .250  | 2.315 | 1.535  | .860  | 2.205 | .230  | 2.415 | 2.555 | .1275 | 6LP + 24S + 3P       | 3-6450840-3 |
| -     | 1.135 | .8075  | .375  | 1.025 | -     | 1.235 | 1.375 | .1025 | 2LP + 16S + 2LP      | 3-6450840-1 |
| .250  | 2.300 | 1.520  | .845  | 2.190 | .250  | 2.400 | 2.540 | .170  | 3P + 24S + 3P        | 2-6450840-9 |
| .250  | 3.800 | 2.270  | 1.595 | 3.690 | .250  | 3.900 | 4.040 | .170  | 6P + 24S + 6P        | 2-6450840-7 |
| .250  | 4.400 | 2.370  | 2.095 | 4.290 | .250  | 4.500 | 4.640 | .170  | 8P + 8S + 8P         | 1-6450840-6 |
| .250  | 1.700 | 1.145  | .645  | 1.590 | .250  | 1.800 | 1.940 | .195  | 2P + 16S + 2P        | 2-6450840-5 |
| .250  | 6.000 | 3.970  | 2.095 | 5.890 | .250  | 6.100 | 6.240 | .170  | 8P + 72S + 8P        | 2-6450840-3 |
| .250  | 2.500 | 1.470  | 1.095 | 2.390 | .250  | 2.600 | 2.740 | .170  | 4P + 12S + 4P        | 2-6450840-2 |
| .230  | 5.585 | 1.5025 | .645  | 5.475 | .250  | 5.685 | 5.825 | .170  | 2P + 32S + 4LP + 14P | 2-6450840-1 |
| .250  | 3.520 | 2.990  | 2.265 | 3.410 | .230  | 3.620 | 3.760 | .1525 | 18LP + 24S + 2P      | 2-6450840-0 |
| -     | 1.300 | 1.020  | .345  | 1.190 | -     | 1.400 | 1.540 | .170  | 1P + 24S + 1P        | 1-6450840-5 |
| .200  | 3.300 | 2.020  | 1.345 | 3.190 | .200  | 3.400 | 3.540 | .170  | 6HDP + 24S + 6HDP    | 1-6450840-2 |
| .200  | 2.400 | 1.520  | .945  | 2.290 | .200  | 2.500 | 2.640 | .170  | 4HDP + 20S + 4HDP    | 1-6450840-1 |
| .250  | 2.400 | 1.370  | 1.095 | 2.290 | .250  | 2.500 | 2.640 | .170  | 4P + 8S + 4P         | 1-6450840-0 |
| .200  | 2.100 | 1.220  | .945  | 1.990 | .200  | 2.200 | 2.340 | .170  | 4HDP + 8S + 4HDP     | 6450840-9   |
| -     | -     | -      | -     | -     | -     | -     | -     | -     | 4P+16S+24S+2HDP      | 6450840-8   |
| -     | 1.300 | 1.020  | .345  | 1.190 | -     | 1.400 | 1.540 | .170  | 1P + 24S + 1P        | 6450840-7   |
| -     | 2.480 | 2.1525 | 1.345 | 2.370 | .250  | 2.580 | 2.720 | .170  | 5P + 32S + 2LP       | 6450840-6   |
| .250  | 3.400 | 2.120  | 1.395 | 3.290 | .250  | 3.500 | 3.640 | .170  | 5P + 24S + 5P        | 6450840-5   |
| .200  | 5.150 | 2.670  | 1.345 | 5.040 | .300  | 5.250 | 5.390 | .195  | 4ACP + 48S + 12HDP   | 6450840-4   |
| .230  | 5.495 | 4.4275 | 3.170 | 5.385 | .250  | 5.595 | 5.735 | .195  | 12P + 48S + 8LP      | 6450840-3   |
| -     | 2.315 | -      | -     | 2.205 | -     | 2.415 | 2.555 | .170  | 3P+ 1LP + 24S + 3HDP | 6450840-2   |
| DIM T | DIM V | DIM R  | DIM W | DIM U | DIM S | DIM D | DIM L | DIM K | DESCRIPTION          | PART NUMBER |

THIS DRAWING IS A CONTROLLED DOCUMENT.

DIMENSIONS:  
INCHES

MATERIAL  
-

TOLERANCES UNLESS OTHERWISE SPECIFIED:

0 PLC  
1 PLC  
2 PLC  
3 PLC  
4 PLC  
ANGLES  
FINISH

±"  
±.01  
±.005  
±.0050  
#2°  
-

DWN  
CHK  
APVD

ALEX SHOAL  
Suryy Zhao  
Suryy Zhao

14DEC2007  
20DEC2007  
Z0DEC2007

PRODUCT SPEC  
APPLICATION SPEC

108-2292  
114-13251

114-13251

WEIGHT  
-

Customer Drawing

NAME  
RIGHT ANGLE HEADER  
W/ LP CONTACT AND SHORT END MODULES  
MULTI-BEAM XLE

SIZE  
A1

CAGE CODE  
00779

DRAWING NO  
6450840

RESTRICTED TO  
-

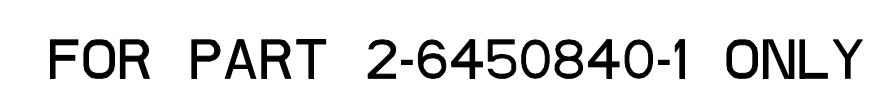
SCALE  
1:1

SHEET  
2

OF  
16

REV  
H4

4805 (3/11)



ED DOCUMENT. DWN 14DEC2007

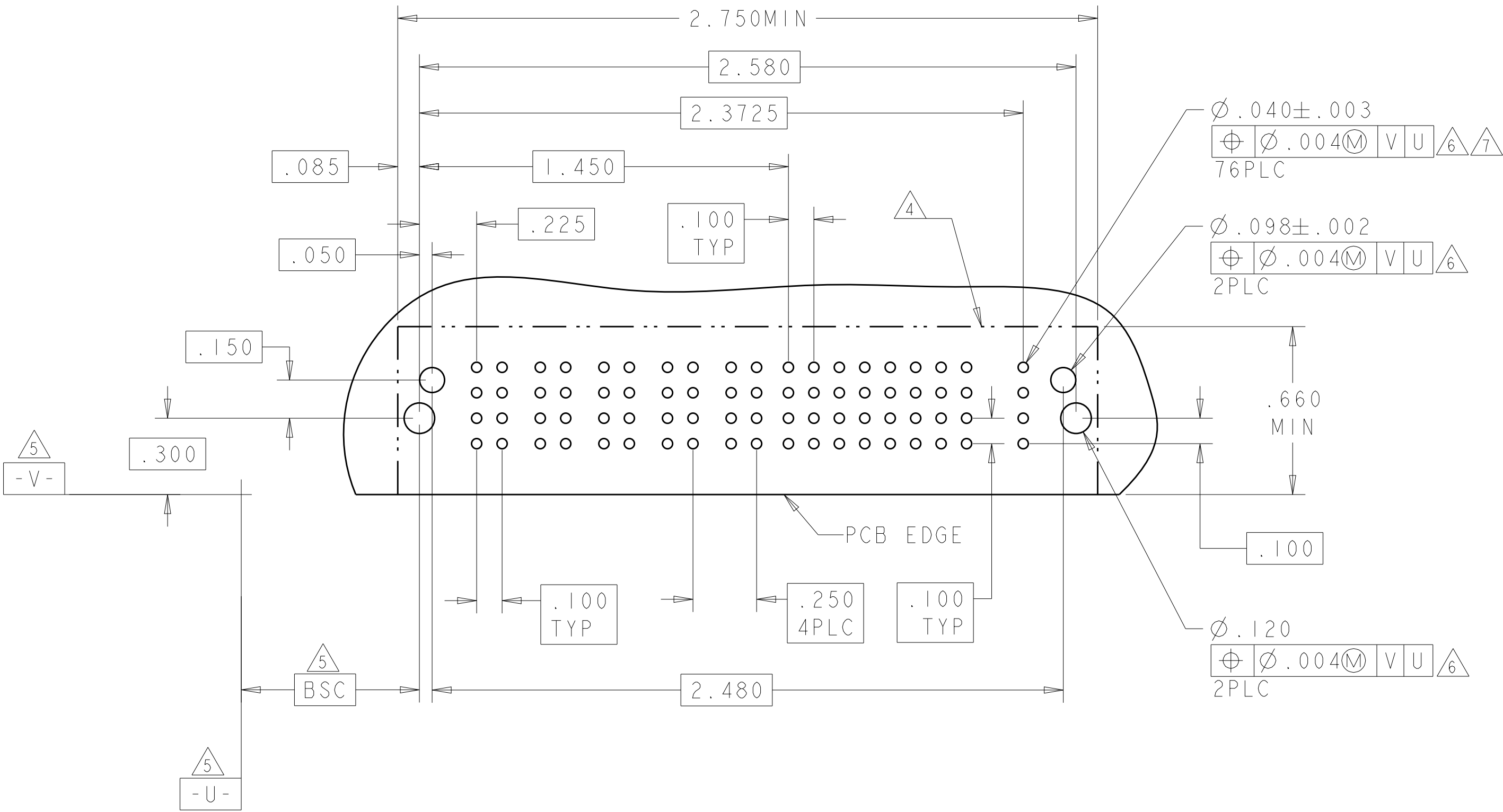
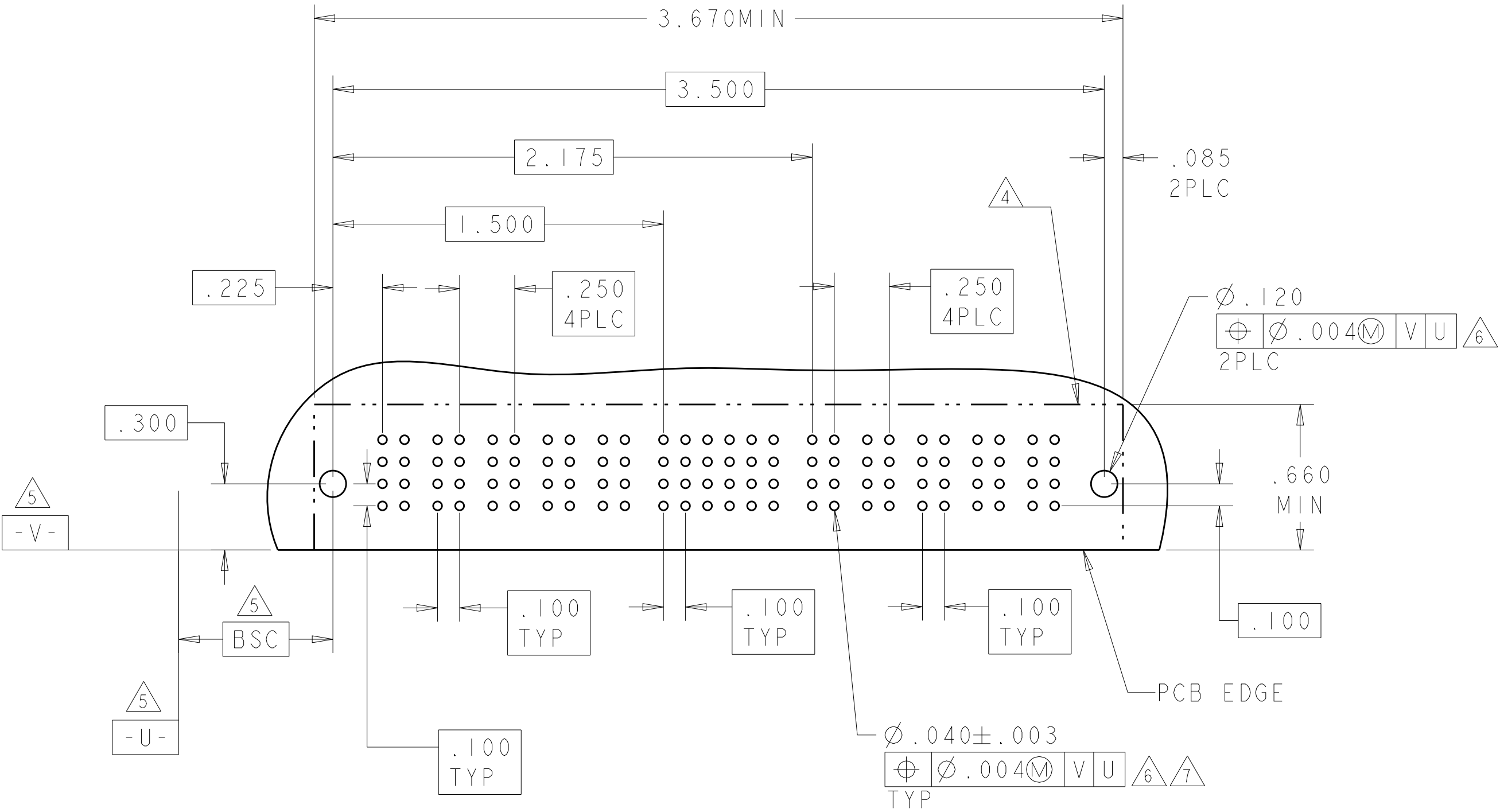
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| LOC | DIST | REVISIONS |     |             |      |     |      |
|-----|------|-----------|-----|-------------|------|-----|------|
| ES  | 00   | P         | LTR | DESCRIPTION | DATE | DWN | APVD |
|     |      | -         | -   | SEE SHEET 1 | -    | -   | -    |
|     |      |           |     |             |      |     |      |
|     |      |           |     |             |      |     |      |
|     |      |           |     |             |      |     |      |

| PART NUMBER   | ROWS |                                                                                   | POWER |    |    |    |    | SIGNAL |    |    |    |    |    | POWER |    |    |    |     |                                                                                   |
|---------------|------|-----------------------------------------------------------------------------------|-------|----|----|----|----|--------|----|----|----|----|----|-------|----|----|----|-----|-----------------------------------------------------------------------------------|
|               |      |                                                                                   | P1    | P2 | P3 | P4 | P5 | 1      | 2  | 3  | 4  | 5  | 6  | P6    | P7 | P8 | P9 | P10 |                                                                                   |
| 6450840-5     | D    |  | TT    | TT | TT | TT | TT | Z5     | Z5 | Z5 | Z5 | Z5 | Z5 | TT    | TT | TT | TT | TT  |  |
|               | Y5   |                                                                                   |       |    |    |    |    | Y5     | Y5 | Y5 | Y5 | Y5 |    |       |    |    |    |     |                                                                                   |
|               | R5   |                                                                                   |       |    |    |    |    | R5     | R5 | R5 | R5 | R5 |    |       |    |    |    |     |                                                                                   |
|               | O5   |                                                                                   |       |    |    |    |    | O5     | O5 | O5 | O5 | O5 |    |       |    |    |    |     |                                                                                   |
| 5P + 24S + 5P |      |                                                                                   |       |    |    |    |    |        |    |    |    |    |    |       |    |    |    |     |                                                                                   |

| PART NUMBER    | ROWS |  | POWER |    |    |    |    | SIGNAL |    |    |    |    |    |    |    | POWER |     |  |
|----------------|------|--|-------|----|----|----|----|--------|----|----|----|----|----|----|----|-------|-----|--|
|                |      |  | P1    | P2 | P3 | P4 | P5 | 1      | 2  | 3  | 4  | 5  | 6  | 7  | 8  | LP1   | LP2 |  |
| 6450840-6      | D    |  | TT    | TT | TT | TT | TT | Z5     | Z5 | Z5 | Z5 | Z5 | Z5 | Z5 | Z1 | LT    |     |  |
|                | C    |  |       |    |    |    |    | Y5     | Y5 | Y5 | Y5 | Y5 | Y5 | Y5 | Y5 |       |     |  |
|                | B    |  |       |    |    |    |    | R5     | R5 | R5 | R5 | R5 | R5 | R5 | R5 |       |     |  |
|                | A    |  |       |    |    |    |    | O5     | O5 | O5 | O5 | O5 | O5 | O5 | O5 |       |     |  |
| 5P + 32S + 2LP |      |  |       |    |    |    |    |        |    |    |    |    |    |    |    |       |     |  |

NO CONTACT LOADED

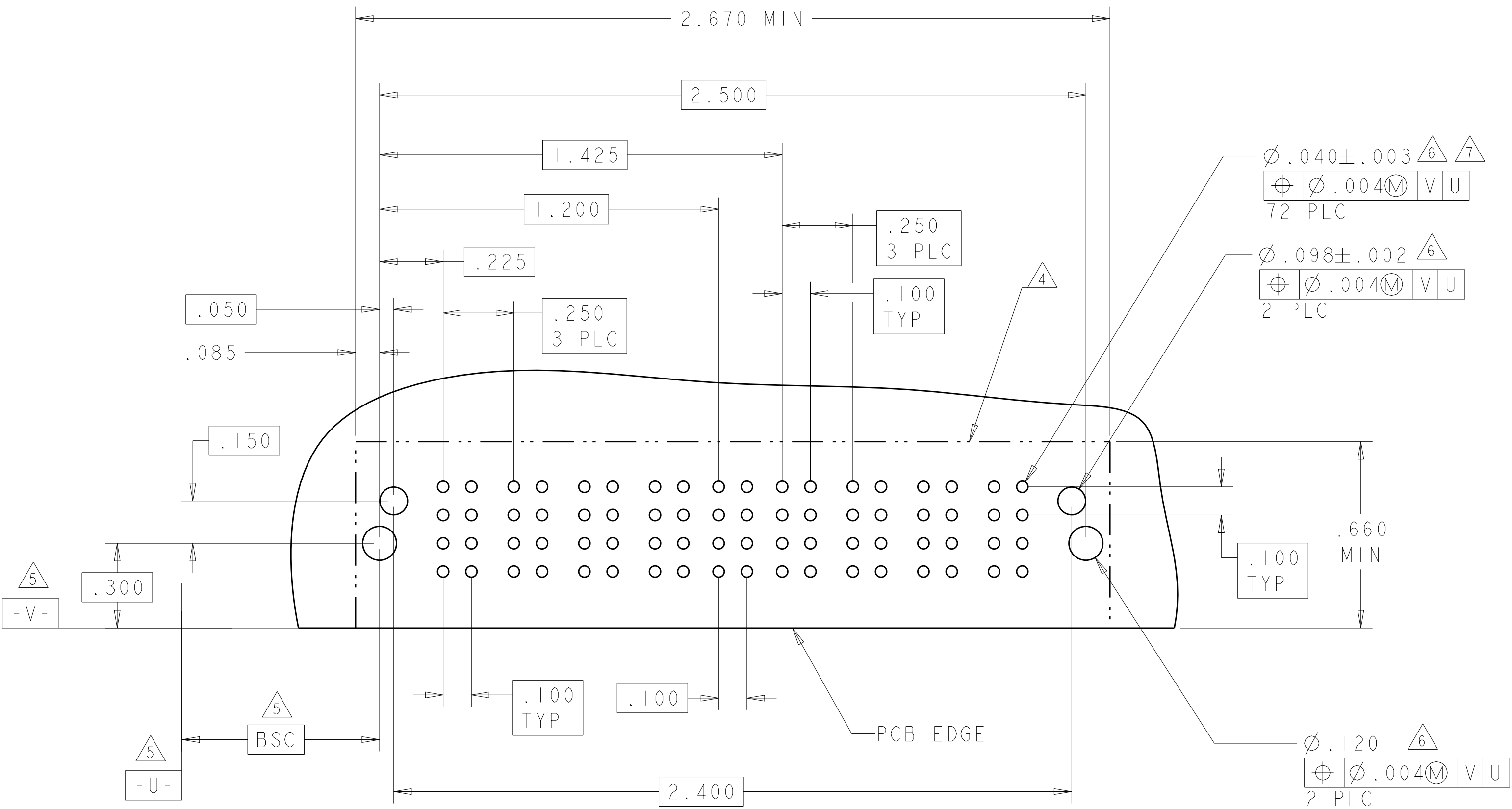
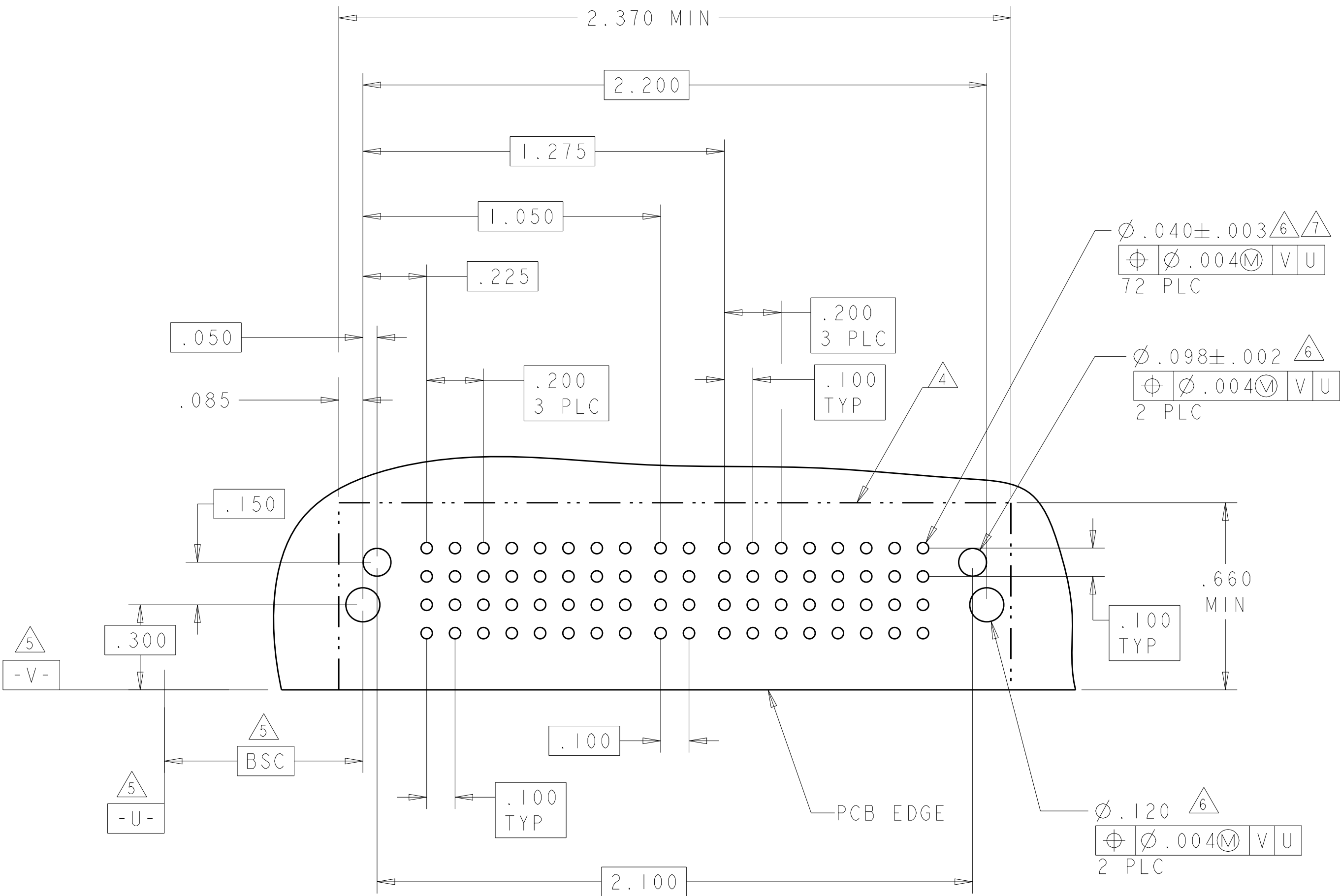




| LOC | DIST | REVISIONS |     |             |      |     |      |
|-----|------|-----------|-----|-------------|------|-----|------|
| ES  | 00   | P         | LTR | DESCRIPTION | DATE | DWN | APVD |
|     |      | -         | -   | SEE SHEET 1 | -    | -   | -    |
|     |      |           |     |             |      |     |      |
|     |      |           |     |             |      |     |      |
|     |      |           |     |             |      |     |      |

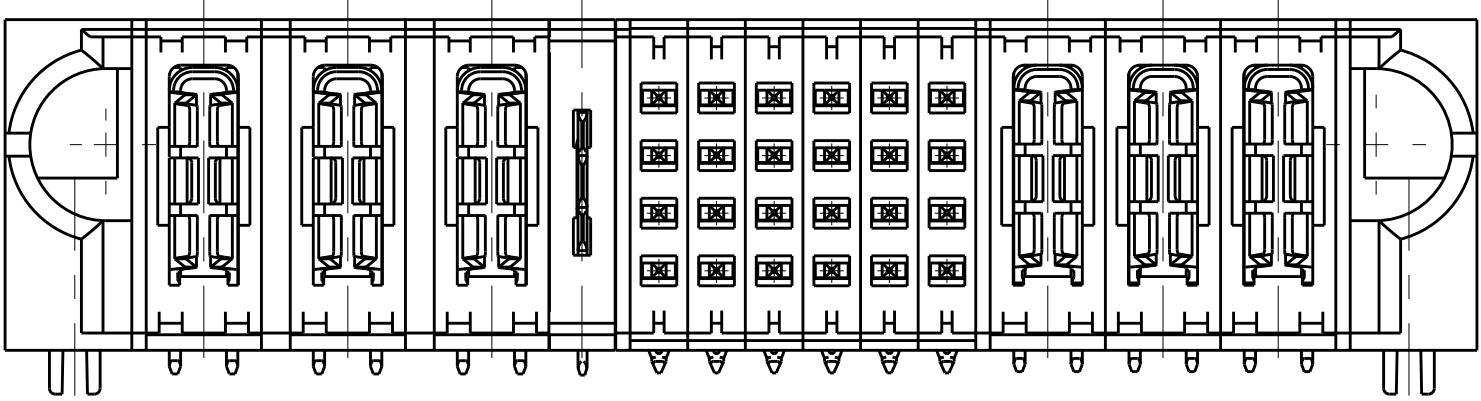
| PART NUMBER      | ROWS             |                                                                                      | POWER                                                                                |                                                                                      |                                                                                      |                                                                                      | SIGNAL                                                                               |                                                                                      | POWER                                                                                |                                                                                       |                                                                                        |                                                                                        |                                                                                        |
|------------------|------------------|--------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------|
|                  |                  |                                                                                      | P1                                                                                   | P2                                                                                   | P3                                                                                   | P4                                                                                   | 1                                                                                    | 2                                                                                    | P5                                                                                   | P6                                                                                    | P7                                                                                     | P8                                                                                     |                                                                                        |
| 6450840-9        | D<br>C<br>B<br>A |  HD |  TT |  TT |  TT |  TT |  Z5 |  Z5 |  TT |  TT |  TT |  TT |  HD |
|                  |                  |                                                                                      |                                                                                      |                                                                                      |                                                                                      |                                                                                      |  Y5 |  Y5 |                                                                                      |                                                                                       |                                                                                        |                                                                                        |                                                                                        |
|                  |                  |                                                                                      |                                                                                      |                                                                                      |                                                                                      |                                                                                      |  R5 |  R5 |                                                                                      |                                                                                       |                                                                                        |                                                                                        |                                                                                        |
|                  |                  |                                                                                      |                                                                                      |                                                                                      |                                                                                      |                                                                                      |  O5 |  O5 |                                                                                      |                                                                                       |                                                                                        |                                                                                        |                                                                                        |
| 4HDP + 8S + 4HDP |                  |                                                                                      |                                                                                      |                                                                                      |                                                                                      |                                                                                      |                                                                                      |                                                                                      |                                                                                      |                                                                                       |                                                                                        |                                                                                        |                                                                                        |

| PART NUMBER  | ROWS             |                                                                                        | POWER                                                                                  |                                                                                        |                                                                                        |                                                                                        | SIGNAL |    | POWER                                                                                  |                                                                                        |                                                                                        |                                                                                        |                                                                                        |
|--------------|------------------|----------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------|--------|----|----------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------|
|              |                  |                                                                                        | P1                                                                                     | P2                                                                                     | P3                                                                                     | P4                                                                                     | 1      | 2  | P5                                                                                     | P6                                                                                     | P7                                                                                     | P8                                                                                     |                                                                                        |
| 1-6450840-0  | D<br>C<br>B<br>A |  HD |  TT |  TT |  TT |  TT | Z5     | Z5 |  TT |  TT |  TT |  TT |  HD |
|              |                  |                                                                                        |                                                                                        |                                                                                        |                                                                                        |                                                                                        | Y5     | Y5 |                                                                                        |                                                                                        |                                                                                        |                                                                                        |                                                                                        |
|              |                  |                                                                                        |                                                                                        |                                                                                        |                                                                                        |                                                                                        | R5     | R5 |                                                                                        |                                                                                        |                                                                                        |                                                                                        |                                                                                        |
|              |                  |                                                                                        |                                                                                        |                                                                                        |                                                                                        |                                                                                        | O5     | O5 |                                                                                        |                                                                                        |                                                                                        |                                                                                        |                                                                                        |
| 4P + 8S + 4P |                  |                                                                                        |                                                                                        |                                                                                        |                                                                                        |                                                                                        |        |    |                                                                                        |                                                                                        |                                                                                        |                                                                                        |                                                                                        |



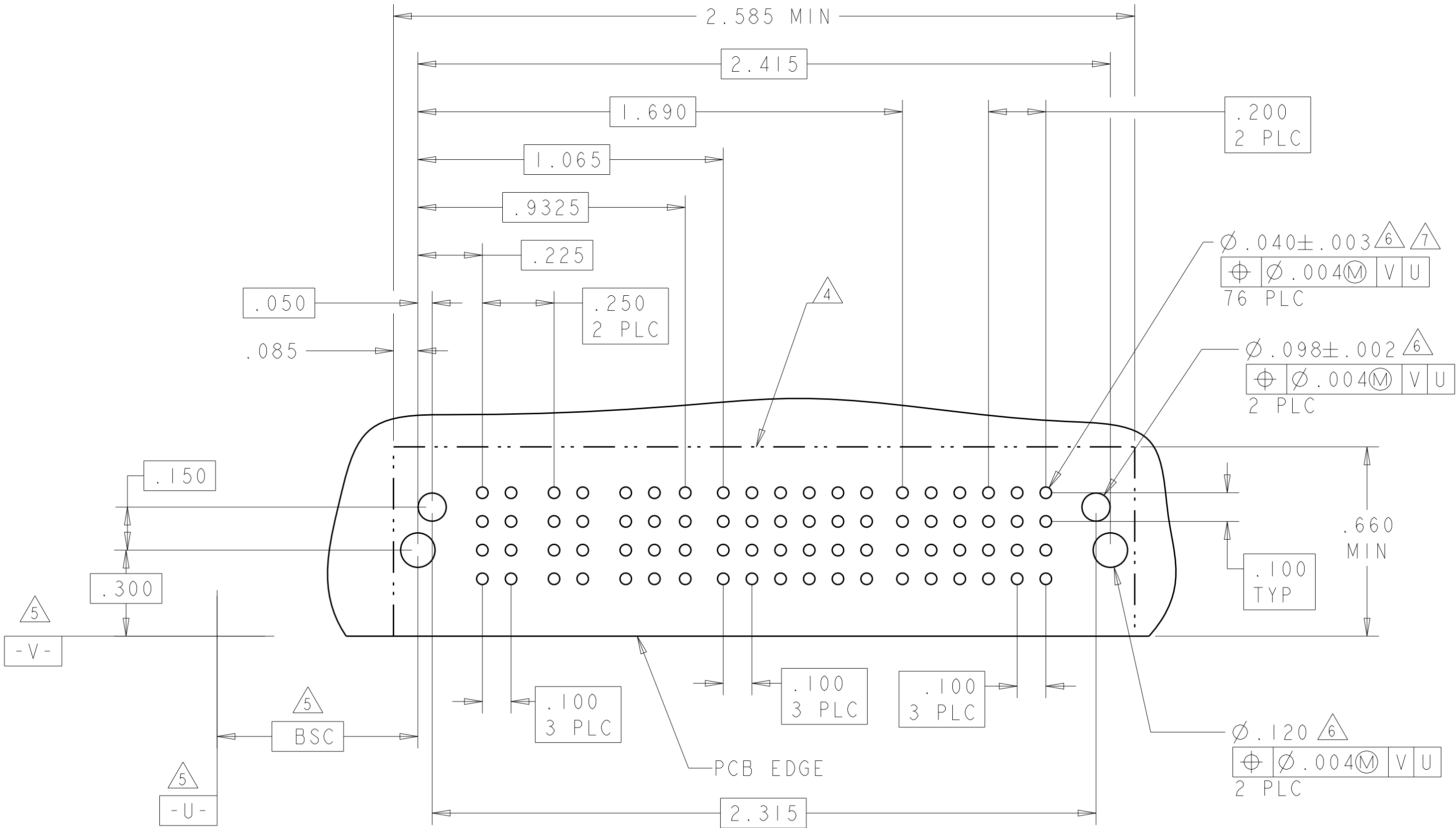
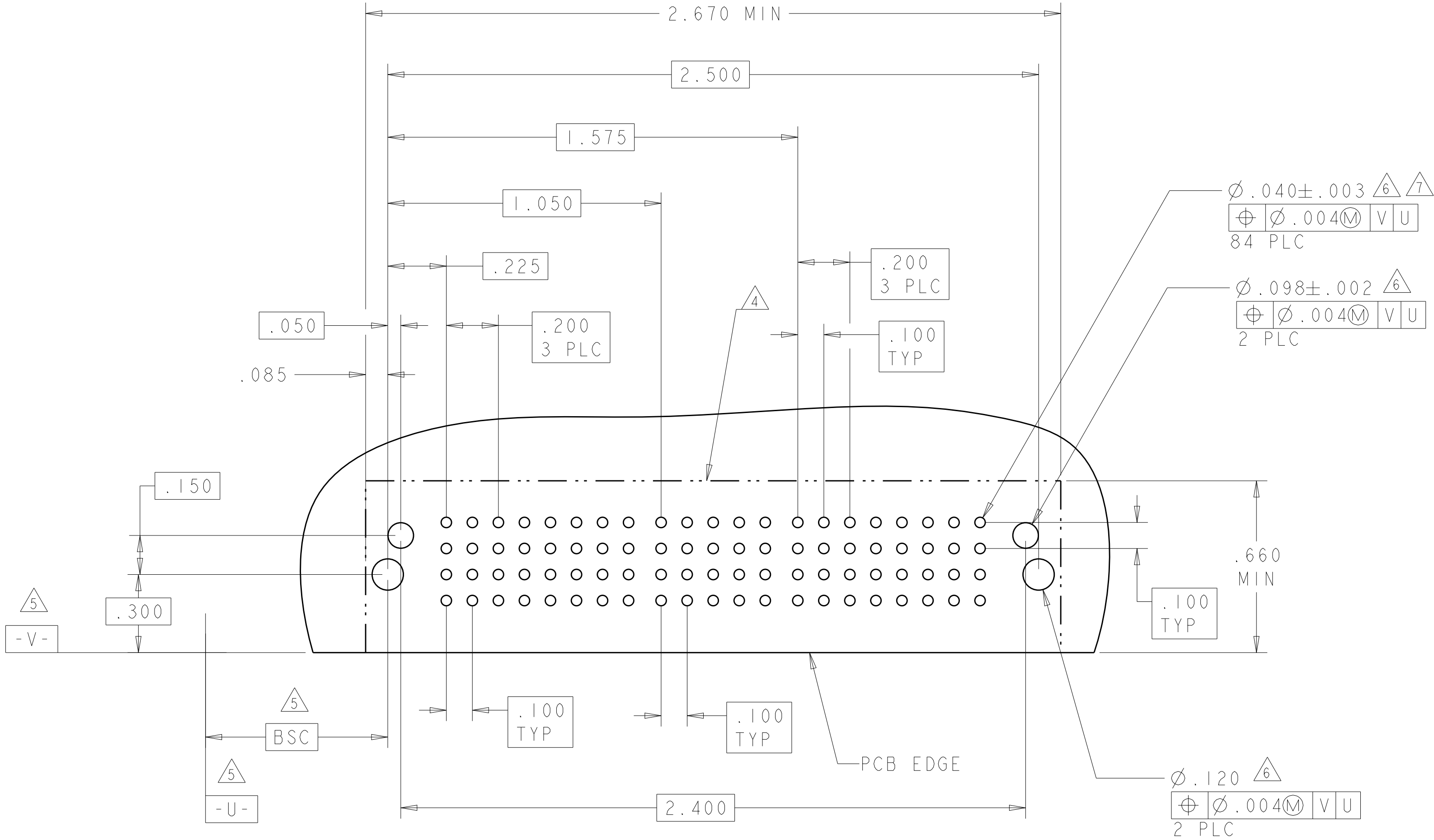
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|-----|-----|-------------|--|----------|-----|------|--|
| P   | LTR | DESCRIPTION |  | DATE     | DWN | APVD |  |
| -   | -   | SEE SHEET 1 |  | -        | -   | -    |  |
|     |     |             |  |          |     |      |  |
|     |     |             |  |          |     |      |  |

| PART NUMBER       | ROWS |               | POWER         |               |               |               | SIGNAL |    |    |    |    | POWER         |               |               |               |               |  |
|-------------------|------|---------------|---------------|---------------|---------------|---------------|--------|----|----|----|----|---------------|---------------|---------------|---------------|---------------|--|
|                   |      |               | P1            | P2            | P3            | P4            | 1      | 2  | 3  | 4  | 5  | P5            | P6            | P7            | P8            |               |  |
| 1-6450840-1       | D    | <div>HD</div> | <div>TT</div> | <div>TT</div> | <div>TT</div> | <div>TT</div> | Z5     | Z5 | Z5 | Z5 | Z5 | <div>TT</div> | <div>TT</div> | <div>TT</div> | <div>TT</div> | <div>HD</div> |  |
|                   | Y5   |               |               |               |               |               | Y5     | Y5 | Y5 | Y5 |    |               |               |               |               |               |  |
|                   | R5   |               |               |               |               |               | R5     | R5 | R5 | R5 |    |               |               |               |               |               |  |
|                   | O5   |               |               |               |               |               | O5     | O5 | O5 | O5 |    |               |               |               |               |               |  |
| 4HDP + 20S + 4HDP |      |               |               |               |               |               |        |    |    |    |    |               |               |               |               |               |  |



FOR PART NUMBER 6450840-2  
UNSPECIFIED DIM REFER TO SHEET 1

| PART NUMBER           | ROWS             |                                                                                     | POWER                                                                               |                                                                                     |                                                                                     |                                                                                     | SIGNAL |    |    |    |    |    | POWER                                                                               |                                                                                     |                                                                                     |                                                                                     |
|-----------------------|------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------|----|----|----|----|----|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
|                       |                  |                                                                                     | P1                                                                                  | P2                                                                                  | P3                                                                                  | LPI                                                                                 | 1      | 2  | 3  | 4  | 5  | 6  | P4                                                                                  | P5                                                                                  | P6                                                                                  |                                                                                     |
| 6450840-2             | D<br>C<br>B<br>A |  |  |  |  |  | Z5     | Z5 | Z5 | Z5 | Z5 | Z5 |  |  |  |  |
|                       |                  |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     | Y5     | Y5 | Y5 | Y5 | Y5 | Y5 |                                                                                     |                                                                                     |                                                                                     |                                                                                     |
|                       |                  |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     | R5     | R5 | R5 | R5 | R5 | R5 |                                                                                     |                                                                                     |                                                                                     |                                                                                     |
|                       |                  |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     | O5     | O5 | O5 | O5 | O5 | O5 |                                                                                     |                                                                                     |                                                                                     |                                                                                     |
| 3P + 1LP + 24S + 3HDP |                  |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |        |    |    |    |    |    |                                                                                     |                                                                                     |                                                                                     |                                                                                     |

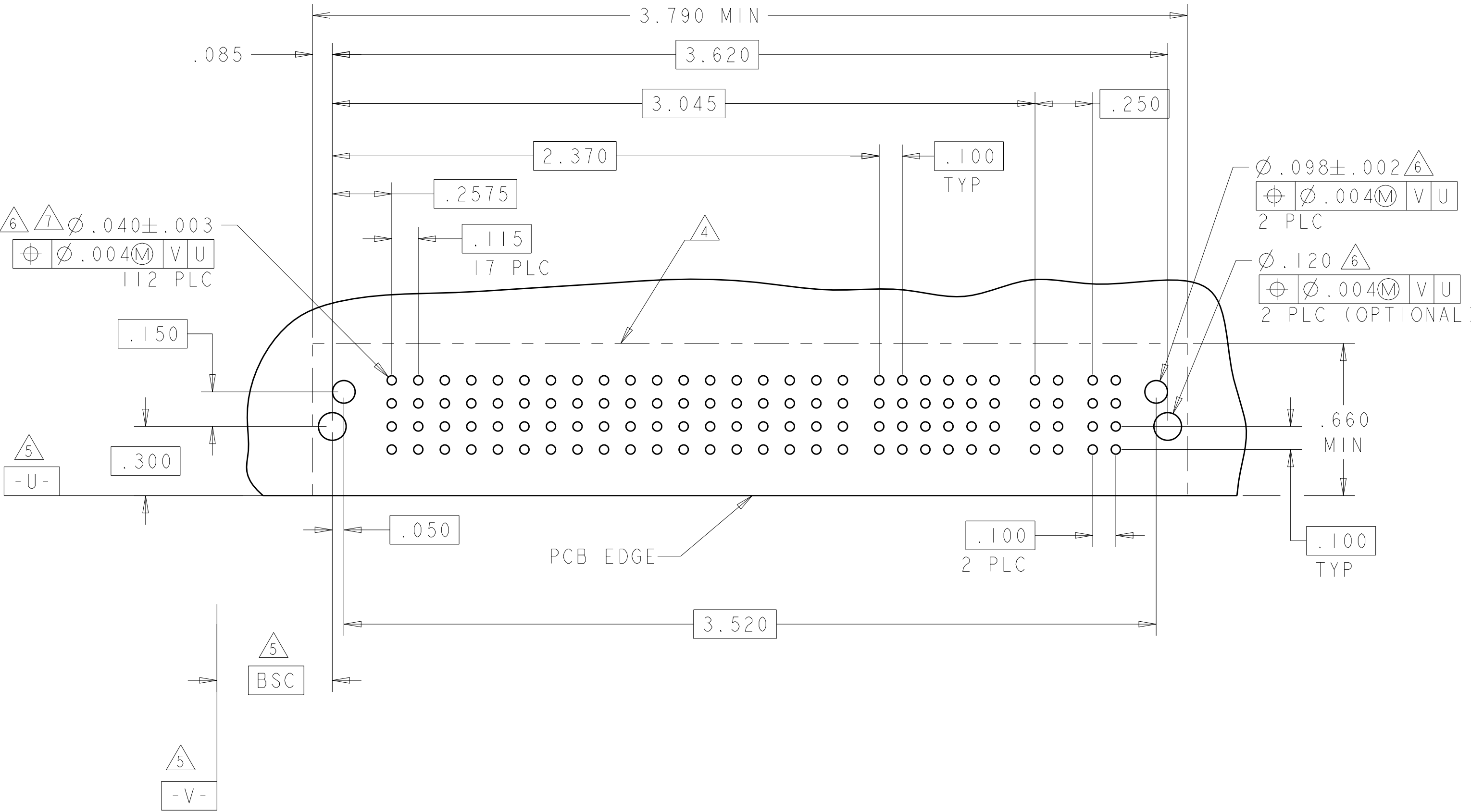


|                                        |  |                  |            |           |                                                                                       |                                     |  |  |
|----------------------------------------|--|------------------|------------|-----------|---------------------------------------------------------------------------------------|-------------------------------------|--|--|
| THIS DRAWING IS A CONTROLLED DOCUMENT. |  | OWN              | ALEX SHOAL | 14DEC2007 |  | TE Connectivity                     |  |  |
|                                        |  | CHK              | Sunny Zhao | 20DEC2007 |                                                                                       |                                     |  |  |
|                                        |  | APVD             | Sunny Zhao | 20DEC2007 |                                                                                       |                                     |  |  |
|                                        |  | PRODUCT SPEC     |            | NAME      |                                                                                       | RIGHT ANGLE HEADER                  |  |  |
|                                        |  | 108-2292         |            |           |                                                                                       | W/ LP CONTACT AND SHORT END MODULES |  |  |
|                                        |  | APPLICATION SPEC |            |           |                                                                                       | MULTI-BEAM XLE                      |  |  |
|                                        |  | 114-13251        |            |           |                                                                                       |                                     |  |  |
|                                        |  | WEIGHT           |            | SIZE      |                                                                                       | CAGE CODE                           |  |  |
|                                        |  | -                |            | A         |                                                                                       | 00779                               |  |  |
|                                        |  |                  |            | C         |                                                                                       | 6450840                             |  |  |
|                                        |  |                  |            |           |                                                                                       | DRAWING NO                          |  |  |
|                                        |  |                  |            |           |                                                                                       | RESTRICTED TO                       |  |  |
|                                        |  |                  |            |           |                                                                                       | -                                   |  |  |
|                                        |  |                  |            |           |                                                                                       |                                     |  |  |

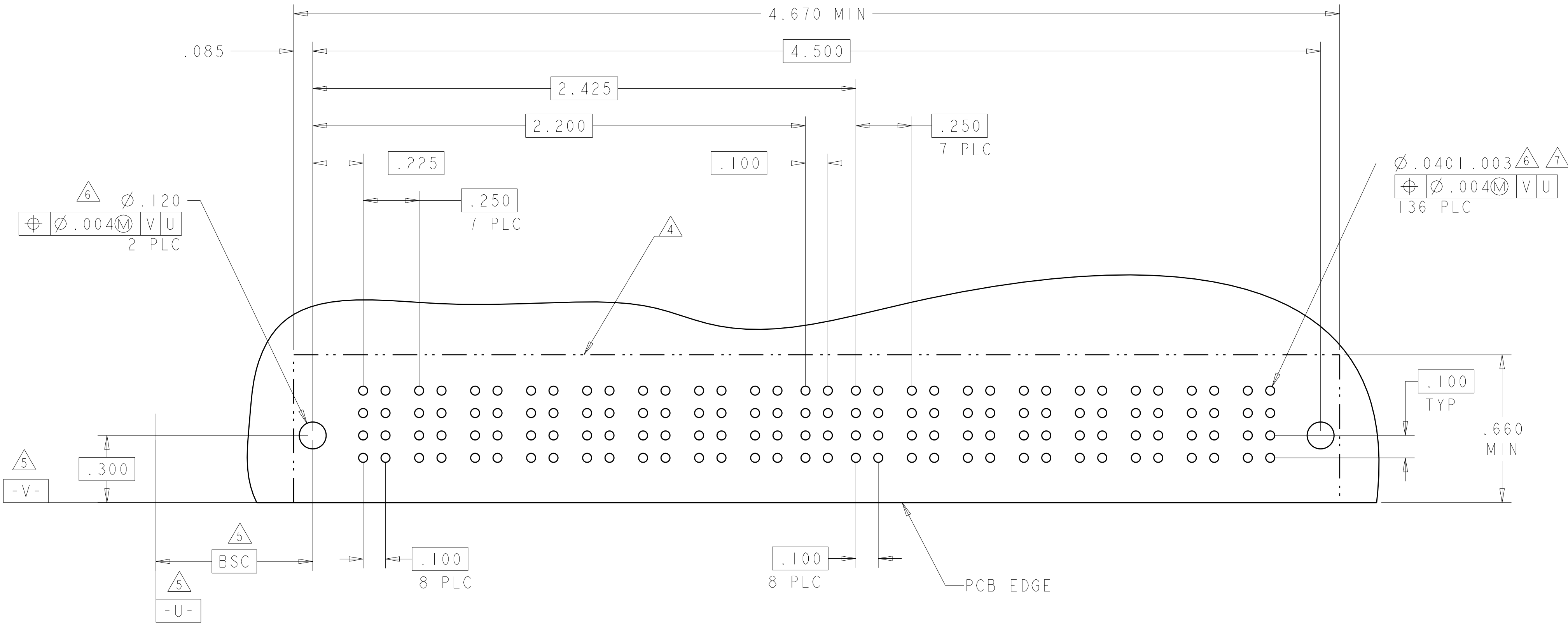
|                                                                                       |       |                                        |  |
|---------------------------------------------------------------------------------------|-------|----------------------------------------|--|
| DIMENSIONS:                                                                           |       | TOLERANCES UNLESS OTHERWISE SPECIFIED: |  |
| INCHES                                                                                |       |                                        |  |
|  | 1 PLC | ±.                                     |  |
|                                                                                       | 2 PLC | ±.                                     |  |
|                                                                                       | 3 PLC | ±.01                                   |  |
|                                                                                       | 4 PLC | ±.005                                  |  |
|                                                                                       | 5 PLC | ±.0050                                 |  |
| ANGLES                                                                                |       | ±.0050                                 |  |
| FINISH                                                                                |       |                                        |  |
|                                                                                       |       |                                        |  |
| MATERIAL                                                                              |       |                                        |  |
|                                                                                       |       |                                        |  |
|                                                                                       |       |                                        |  |

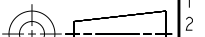
|                  |  |       |     |       |   |    |    |     |    |
|------------------|--|-------|-----|-------|---|----|----|-----|----|
| Customer Drawing |  | SCALE | 1:1 | SHEET | 8 | OF | 16 | REV | H4 |
|------------------|--|-------|-----|-------|---|----|----|-----|----|

| PART NUMBER     | ROWS |                                                                                     | LOW POWER |     |     |     |     |     |     |     |     |      |      |      |      |      |      |      | SIGNAL |      |    |    |    |    | POWER |    |    |                                                                                     |    |
|-----------------|------|-------------------------------------------------------------------------------------|-----------|-----|-----|-----|-----|-----|-----|-----|-----|------|------|------|------|------|------|------|--------|------|----|----|----|----|-------|----|----|-------------------------------------------------------------------------------------|----|
|                 |      |                                                                                     | LP1       | LP2 | LP3 | LP4 | LP5 | LP6 | LP7 | LP8 | LP9 | LP10 | LP11 | LP12 | LP13 | LP14 | LP15 | LP16 | LP17   | LP18 | 1  | 2  | 3  | 4  | 5     | 6  |    | P1                                                                                  | P2 |
| 2-6450840-0     | D    |  | LT        | LT  | LT  | LT  | LT  | LT  | LT  | LT  | LT  | LT   | LT   | LT   | LT   | LT   | LT   | LT   | LT     | Z5   | Z5 | Z5 | Z5 | Z5 | Z5    | TT | TT |  |    |
|                 | Y5   |                                                                                     |           |     |     |     |     |     |     |     |     |      |      |      |      |      |      |      |        | Y5   | Y5 | Y5 | Y5 | Y5 |       |    |    |                                                                                     |    |
|                 | R5   |                                                                                     |           |     |     |     |     |     |     |     |     |      |      |      |      |      |      |      |        | R5   | R5 | R5 | R5 | R5 |       |    |    |                                                                                     |    |
|                 | A    | HD                                                                                  |           |     |     |     |     |     |     |     |     |      |      |      |      |      |      |      |        | O5   | O5 | O5 | O5 | O5 | O5    |    |    |                                                                                     |    |
| 18LP + 24S + 2P |      |                                                                                     |           |     |     |     |     |     |     |     |     |      |      |      |      |      |      |      |        |      |    |    |    |    |       |    |    |                                                                                     |    |

4805 (3/11)

| PART NUMBER  | ROWS             |                                                                                   | POWER                                                                             |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                     |                                                                                     |    | SIGNAL |                                                                                     | POWER                                                                               |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |     |  |
|--------------|------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|----|--------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-----|--|
|              |                  |                                                                                   | P1                                                                                | P2                                                                                | P3                                                                                | P4                                                                                | P5                                                                                | P6                                                                                  | P7                                                                                  | P8 | 1      | 2                                                                                   | P9                                                                                  | P10                                                                                 | P11                                                                                 | P12                                                                                 | P13                                                                                 | P14                                                                                 | P15                                                                                 | P16 |  |
| 1-6450840-6  | D<br>C<br>B<br>A |  |  |  |  |  |  |  |  | Z5 | Z5     |  |  |  |  |  |  |  |  |     |  |
|              |                  |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                     |                                                                                     | Y5 | Y5     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |     |  |
|              |                  |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                     |                                                                                     | R5 | R5     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |     |  |
|              |                  |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                     |                                                                                     | O5 | O5     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |     |  |
| 8P + 8S + 8P |                  |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                     |                                                                                     |    |        |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |     |  |



|                                                                                                                                                                                                                                                   |        |                                           |           |                                                                             |        |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|-------------------------------------------|-----------|-----------------------------------------------------------------------------|--------|
| THIS DRAWING IS A CONTROLLED DOCUMENT.                                                                                                                                                                                                            |        | DWN<br>ALEX SHOI                          | 14DEC2007 |                                                                             |        |
|                                                                                                                                                                                                                                                   |        | CW<br>Sunny Zhao                          | 20DEC2007 | <b>STE</b> TE Connectivity                                                  |        |
| DIMENSIONS:<br><br>INCHES                                                                                                                                                                                                                         |        | APVD<br>Sunny Zhao                        | 20DEC2007 | NAME                                                                        |        |
| TOLERANCES UNLESS OTHERWISE SPECIFIED:                                                                                                                                                                                                            |        | PRODUCT SPEC                              |           | RIGHT ANGLE HEADER<br>W/ LP CONTACT AND SHORT END MODULES<br>MULTI-BEAM XLE |        |
|  <p>         0 P/LC ±<br/>         1 P/LC ±<br/>         2 P/LC ±.01<br/>         3 P/LC ±.005<br/>         4 P/LC ±.0050<br/>         ANGLES ±?°       </p> |        | APPLICATION SPEC<br>108-2292<br>114-13251 |           | SIZE CAGE CODE DRAWING NO RESTRICTED TO                                     |        |
| MATERIAL                                                                                                                                                                                                                                          | FINISH | WEIGHT                                    | -         | A   00779 ©=6450840                                                         | -      |
|                                                                                                                                                                                                                                                   |        | Customer Drawing                          | SCALE 1:1 | SHEET 10 OF 16                                                              | REV H4 |

This mechanical drawing illustrates the dimensions and tolerances for a PCB edge connector. The drawing includes the following specifications:

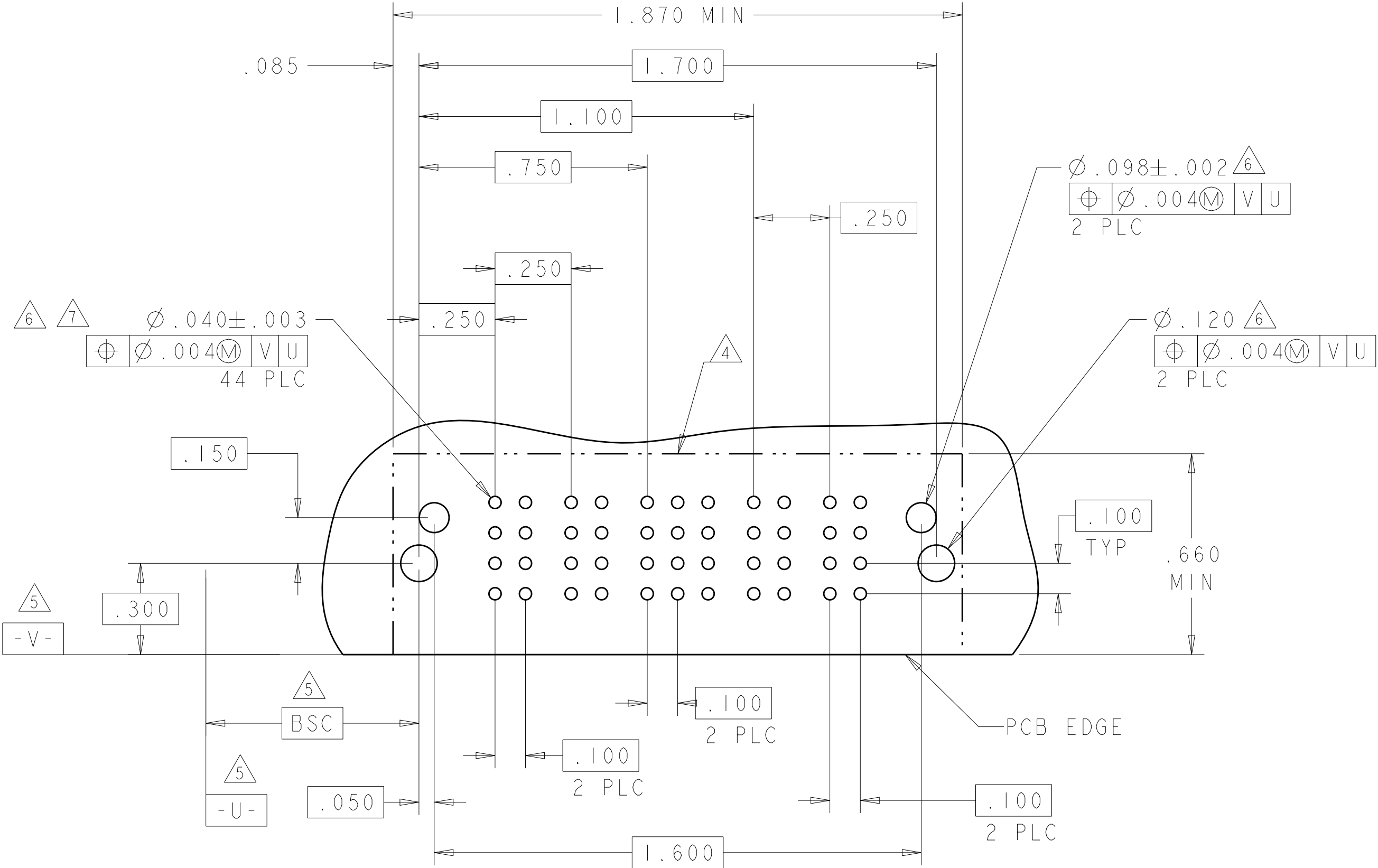
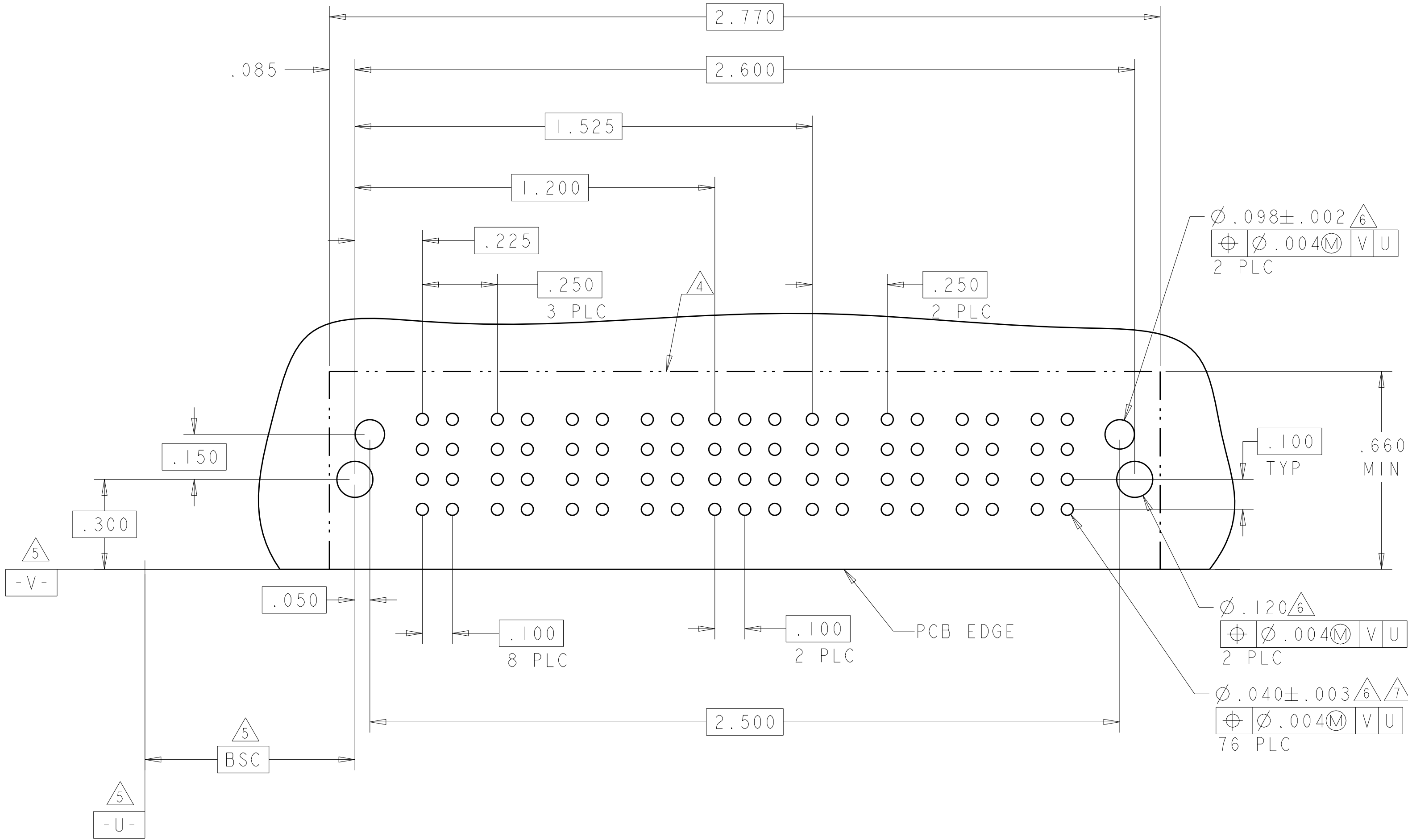
- Overall Dimensions:**
  - Top overall width: 5.855 MIN
  - Bottom overall width: 5.585
- Feature Dimensions and Tolerances:**
  - Top left feature:  $\phi .040 \pm .003$  (176 PLC)
  - Top center feature: 2.110
  - Top right feature: .250 (13 PLC)
  - Top right feature: .100 (16 PLC)
  - Top right feature:  $\phi .098 \pm .002$  (2 PLC)
  - Top right feature:  $\phi .120$  (2 PLC (OPTIONAL))
  - Bottom left feature: .150
  - Bottom left feature: .300
  - Bottom center feature: .250
  - Bottom center feature: .050
  - Bottom right feature: .100 TYP
- Other Specifications:**
  - PCB EDGE
  - MIN .660
  - BSC (Basic Size)
  - Typical values (TYP)
  - Plating thickness (PLC)

4805 (3/11)

| LOC | DIST | REVISIONS |     |             |      |     |      |
|-----|------|-----------|-----|-------------|------|-----|------|
| ES  | 00   | P         | LTR | DESCRIPTION | DATE | DWN | APVD |
|     |      | -         | -   | SEE SHEET 1 | -    | -   | -    |
|     |      |           |     |             |      |     |      |
|     |      |           |     |             |      |     |      |
|     |      |           |     |             |      |     |      |

| PART NUMBER   | ROWS |  | POWER |    |    |    | SIGNAL |    |    | POWER |    |    |    |  |
|---------------|------|--|-------|----|----|----|--------|----|----|-------|----|----|----|--|
|               |      |  | P1    | P2 | P3 | P4 | 1      | 2  | 3  | P5    | P6 | P7 | P8 |  |
| 2-6450840-2   | D    |  | TT    | TT | TT | TT | Z5     | Z5 | Z5 | TT    | TT | TT | TT |  |
|               | C    |  |       |    |    |    | Y5     | Y5 | Y5 |       |    |    |    |  |
|               | B    |  |       |    |    |    | R5     | R5 | R5 |       |    |    |    |  |
|               |      |  |       |    |    |    | A      | HD |    |       |    |    |    |  |
| 4P + 12S + 4P |      |  |       |    |    |    |        |    |    |       |    |    |    |  |

| PART NUMBER   | ROWS |                                                                                     | POWER |    | SIGNAL |    |    |   | POWER |    |                                                                                     |
|---------------|------|-------------------------------------------------------------------------------------|-------|----|--------|----|----|---|-------|----|-------------------------------------------------------------------------------------|
|               |      |                                                                                     | P1    | P2 | 1      | 2  | 3  | 4 | P3    | P4 |                                                                                     |
| 2-6450840-5   | D    |  | TT    | TT | Z5     | Z5 | Z5 |   | TT    | TT |  |
|               | C    |                                                                                     |       |    | Y5     | Y5 | Y5 |   |       |    |                                                                                     |
|               | B    |                                                                                     |       |    | R5     | R5 | R5 |   |       |    |                                                                                     |
|               | A    |                                                                                     |       |    | O5     | O5 | O5 |   |       |    |                                                                                     |
| 2P + 16S + 2P |      |                                                                                     |       |    |        |    |    |   |       |    |                                                                                     |



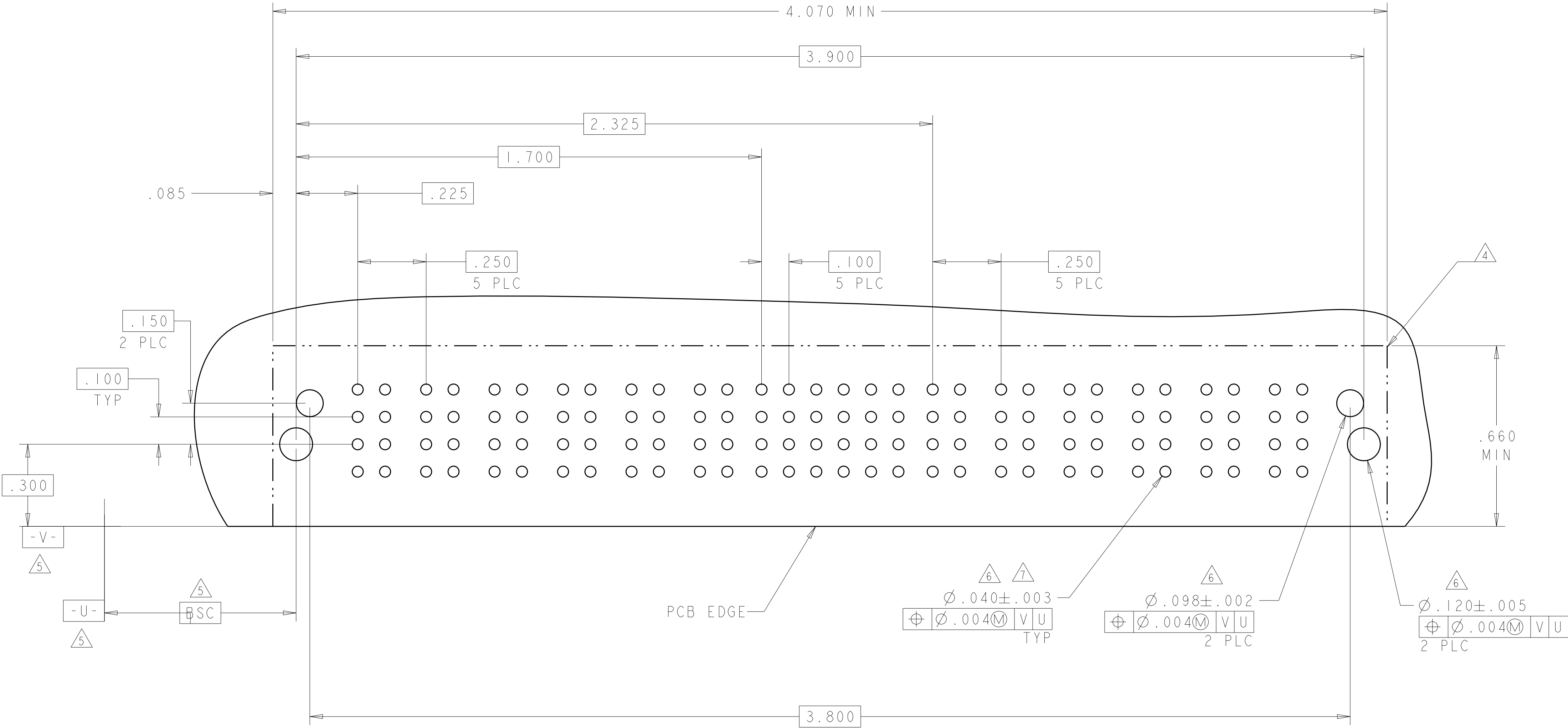
G 8

4805 (3/11)

| LOC | DIST | REVISIONS |     |             |      |     |      |
|-----|------|-----------|-----|-------------|------|-----|------|
| ES  | 00   | P         | LTR | DESCRIPTION | DATE | DWN | APVD |
|     |      | -         | -   | SEE SHEET 1 | -    | -   | -    |
|     |      |           |     |             |      |     |      |
|     |      |           |     |             |      |     |      |
|     |      |           |     |             |      |     |      |

| PART NUMBER   | ROWS |                                                                                   | POWER |    |    |    |    |    | SIGNAL |    |    |    |    |    | POWER |    |    |     |     |                                                                                     |  |
|---------------|------|-----------------------------------------------------------------------------------|-------|----|----|----|----|----|--------|----|----|----|----|----|-------|----|----|-----|-----|-------------------------------------------------------------------------------------|--|
|               |      |                                                                                   | P1    | P2 | P3 | P4 | P5 | P6 | 1      | 2  | 3  | 4  | 5  | 6  | P7    | P8 | P9 | P10 | P11 | P12                                                                                 |  |
| 2-6450840-7   | D    |  | TT    | TT | TT | TT | TT | Z5 | Z5     | Z5 | Z5 | Z5 | Z5 | TT | TT    | TT | TT | TT  | TT  |  |  |
|               | C    |                                                                                   |       |    |    |    |    | Y5 | Y5     | Y5 | Y5 | Y5 |    |    |       |    |    |     |     |                                                                                     |  |
|               | B    |                                                                                   |       |    |    |    |    | R5 | R5     | R5 | R5 | R5 | R5 |    |       |    |    |     |     |                                                                                     |  |
|               | A    | HD                                                                                |       |    |    |    |    | O1 | O5     | O5 | O5 | O5 | HD |    |       |    |    |     |     |                                                                                     |  |
| 6P + 24S + 6P |      |                                                                                   |       |    |    |    |    |    |        |    |    |    |    |    |       |    |    |     |     |                                                                                     |  |

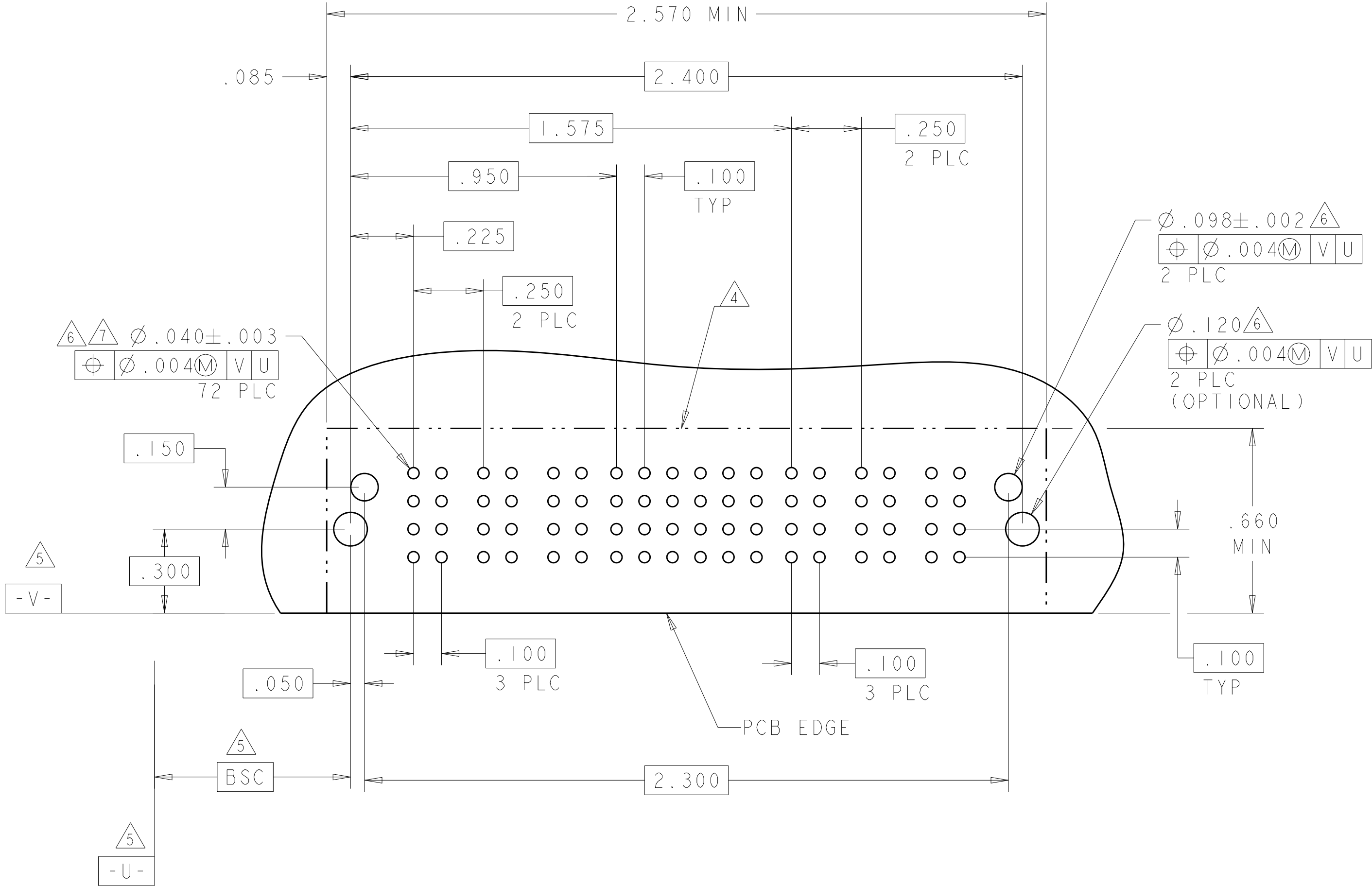
G7



|                                        |  |                                        |           |                                                                                     |  |  |
|----------------------------------------|--|----------------------------------------|-----------|-------------------------------------------------------------------------------------|--|--|
| THIS DRAWING IS A CONTROLLED DOCUMENT. |  | DWN<br>ALEX SHOAL                      | 14DEC2007 | TE Connectivity                                                                     |  |  |
|                                        |  | CHK<br>Sunny Zhao                      | 20DEC2007 |                                                                                     |  |  |
| DIMENSIONS:<br>INCHES                  |  | APVD<br>Sunny Zhao                     | 20DEC2007 | NAME<br>RIGHT ANGLE HEADER<br>W/ LP CONTACT AND SHORT END MODULES<br>MULTI-BEAM XLE |  |  |
|                                        |  | TOLERANCES UNLESS OTHERWISE SPECIFIED: |           | PRODUCT SPEC                                                                        |  |  |
|                                        |  |                                        |           | 108-2292                                                                            |  |  |
|                                        |  |                                        |           | APPLICATION SPEC                                                                    |  |  |
|                                        |  |                                        |           | 114-13251                                                                           |  |  |
|                                        |  |                                        |           | WEIGHT                                                                              |  |  |
|                                        |  |                                        |           | -                                                                                   |  |  |
| MATERIAL                               |  |                                        |           | Customer Drawing                                                                    |  |  |
|                                        |  |                                        |           | SCALE 1:1 SHEET 14 OF 16 REV H4                                                     |  |  |

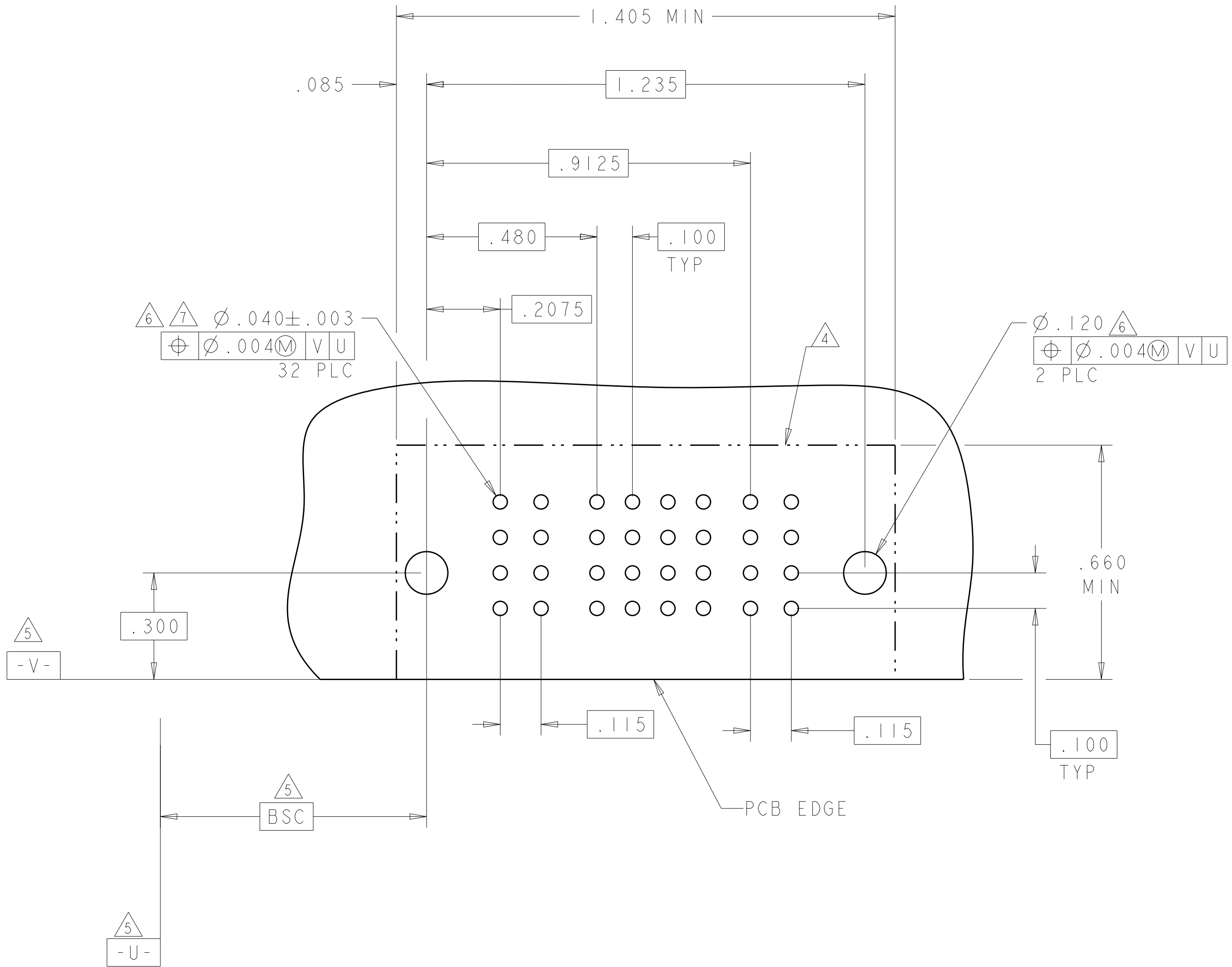
| LOC | DIST | REVISONS |     |             |      |
|-----|------|----------|-----|-------------|------|
| ES  | 00   | P        | LTR | DESCRIPTION | DATE |
|     |      | -        |     | SEE SHEET 1 | -    |
|     |      |          |     |             |      |
|     |      |          |     |             |      |
|     |      |          |     |             |      |

| PART NUMBER   | ROWS |  | POWER                                                                               |    |    | SIGNAL |    |    |    |    |    | POWER |    |    |  |
|---------------|------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|----|----|--------|----|----|----|----|----|-------|----|----|-------------------------------------------------------------------------------------|
|               |      |                                                                                   | P1                                                                                  | P2 | P3 | 1      | 2  | 3  | 4  | 5  | 6  | P4    | P5 | P6 |                                                                                     |
| 2-6450840-9   | D    |  | TT                                                                                  | TT | TT | Z5     | Z5 | Z5 | Z5 | Z5 | Z5 | TT    | TT | TT |  |
|               | Y5   |                                                                                   |                                                                                     |    |    | Y5     | Y5 | Y5 | Y5 | Y5 |    |       |    |    |                                                                                     |
|               | R5   |                                                                                   |                                                                                     |    |    | R5     | R5 | R5 | R5 | R5 |    |       |    |    |                                                                                     |
|               | 01   |                                                                                   |                                                                                     |    |    | 05     | 05 | 05 | 05 | 05 |    |       |    |    |                                                                                     |
| 3P + 24S + 3P |      |                                                                                   |  |    |    |        |    |    |    |    |    |       |    |    |                                                                                     |



H2

| PART NUMBER     | ROWS |                                                                                     | LOW POWER |     | SIGNAL |    |    |    | LOW POWER |     |                                                                                     |
|-----------------|------|-------------------------------------------------------------------------------------|-----------|-----|--------|----|----|----|-----------|-----|-------------------------------------------------------------------------------------|
|                 |      |                                                                                     | LP1       | LP2 | 1      | 2  | 3  | 4  | LP3       | LP4 |                                                                                     |
| 3-6450840-1     | D    |  | LT        | LT  | Z1     | Z5 | Z5 | Z5 | LT        | LT  |  |
|                 | C    |                                                                                     |           |     | Y5     | Y5 | Y5 | Y5 |           |     |                                                                                     |
|                 | B    |                                                                                     |           |     | R5     | R5 | R5 | R5 |           |     |                                                                                     |
|                 | A    |                                                                                     |           |     | 05     | 05 | 05 | 05 |           |     |                                                                                     |
| 2LP + 16S + 2LP |      |                                                                                     |           |     |        |    |    |    |           |     |                                                                                     |



THIS DRAWING IS A CONTROLLED DOCUMENT.

OWN  
CHK  
APVD

ALEX SHOAL  
Sunny Zhao  
Sunny Zhao

14DEC2007  
20DEC2007  
20DEC2007

DIMENSIONS:  
INCHES

TOLERANCES UNLESS  
OTHERWISE SPECIFIED:

0 PLC  
1 PLC  
2 PLC  
3 PLC  
4 PLC  
ANGLES  
FINISH

$\pm .01$   
 $\pm .005$   
 $\pm .0050$   
 $\pm .0050$   
 $\pm .0050$   
 $\pm .0050$   
 $\pm .0050$

MATERIAL

-

PRODUCT SPEC

108-2292

APPLICATION SPEC

114-13251

WEIGHT

-

Customer Drawing

NAME

RIGHT ANGLE HEADER  
W/ LP CONTACT AND SHORT END MODULES  
MULTI-BEAM XLE

SIZE

A1

CAGE CODE

00779

DRAWING NO

6450840

RESTRICTED TO

-

SCALE

1:1

SHEET

15

OF

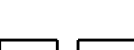
16

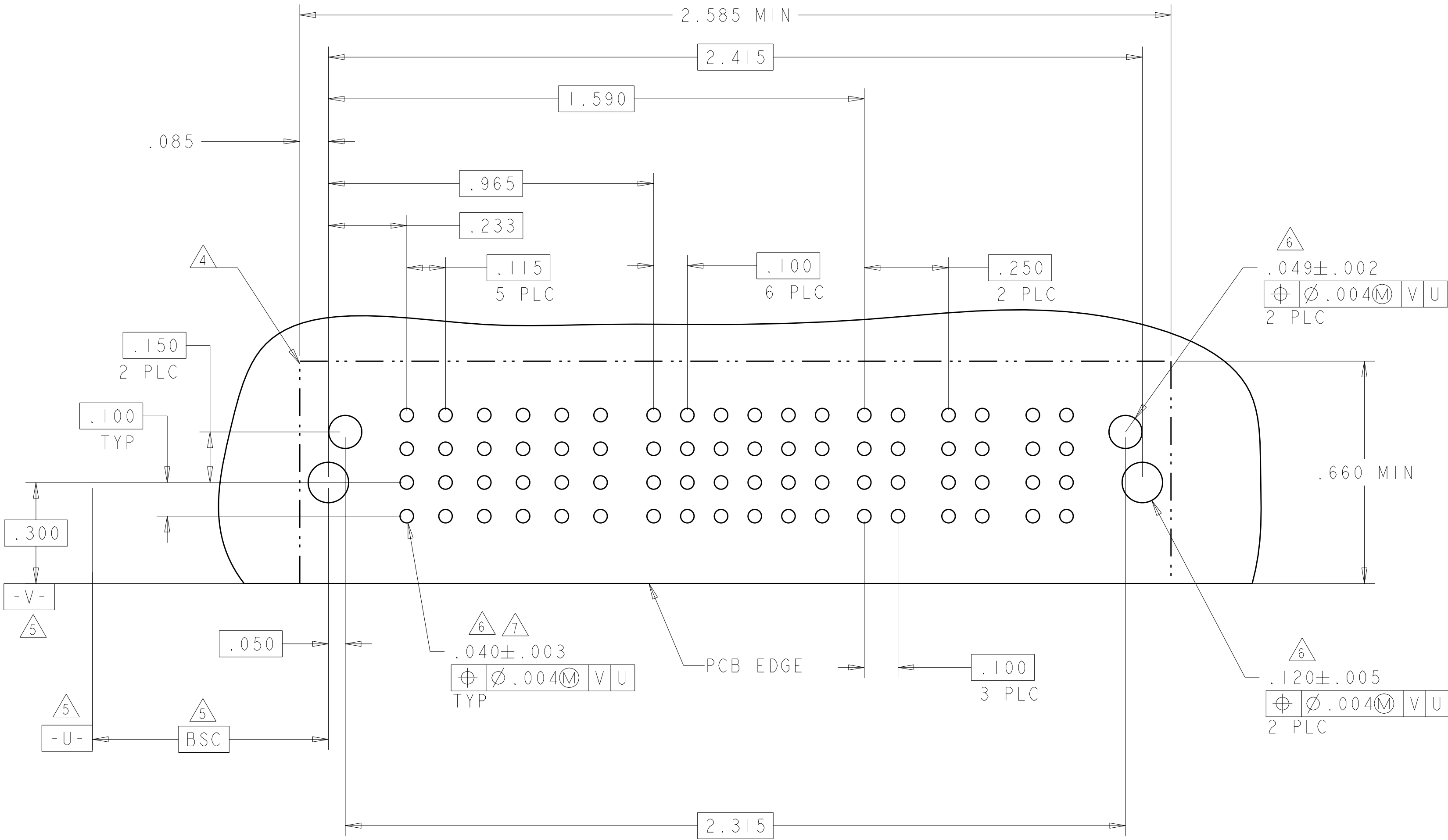
REV

H4

TE Connectivity

| LOC | DIST | REVISIONS |     |             |      |     |
|-----|------|-----------|-----|-------------|------|-----|
|     |      | P         | LTR | DESCRIPTION | DATE | DWN |
| ES  | 00   | -         | -   | SEE SHEET 1 | -    | -   |
|     |      |           |     |             |      |     |
|     |      |           |     |             |      |     |
|     |      |           |     |             |      |     |

| PART NUMBER    | ROWS             |                                                                                   | POWER                                                                             |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   | SIGNAL |    |    |    |    |    | POWER                                                                             |                                                                                   |                                                                                   |                                                                                   |
|----------------|------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|--------|----|----|----|----|----|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|
|                |                  |                                                                                   | LP1                                                                               | LP2                                                                               | LP3                                                                               | LP4                                                                               | LP5                                                                               | LP6                                                                               | 1      | 2  | 3  | 4  | 5  | 6  | P1                                                                                | P2                                                                                | P3                                                                                |                                                                                   |
| 3-6450840-3    | D<br>C<br>B<br>A |  |  |  |  |  |  |  | Z5     | Z5 | Z5 | Z5 | Z5 | Z5 |  |  |  |  |
|                |                  |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   | Y5     | Y5 | Y5 | Y5 | Y5 | Y5 |                                                                                   |                                                                                   |                                                                                   |                                                                                   |
|                |                  |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   | R5     | R5 | R5 | R5 | R5 | R5 |                                                                                   |                                                                                   |                                                                                   |                                                                                   |
|                |                  |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   | O5     | O5 | O5 | O5 | O5 | O5 |                                                                                   |                                                                                   |                                                                                   |                                                                                   |
| 6LP + 24S + 3P |                  |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |        |    |    |    |    |    |                                                                                   |                                                                                   |                                                                                   |  |



|                                        |  |                                                                                               |           |                                                                                     |  |
|----------------------------------------|--|-----------------------------------------------------------------------------------------------|-----------|-------------------------------------------------------------------------------------|--|
| THIS DRAWING IS A CONTROLLED DOCUMENT. |  | DWN<br>ALEX SHOAL                                                                             | 14DEC2007 | TE Connectivity                                                                     |  |
|                                        |  | CHK<br>Sunny Zhao                                                                             | 20DEC2007 |                                                                                     |  |
| DIMENSIONS:<br>INCHES                  |  | APVD<br>Sunny Zhao                                                                            | 20DEC2007 | NAME<br>RIGHT ANGLE HEADER<br>W/ LP CONTACT AND SHORT END MODULES<br>MULTI-BEAM XLE |  |
|                                        |  | TOLERANCES UNLESS<br>OTHERWISE SPECIFIED:                                                     |           | PRODUCT SPEC                                                                        |  |
|                                        |  | 0 PLC ±.01<br>1 PLC ±.01<br>2 PLC ±.01<br>3 PLC ±.005<br>4 PLC ±.0050<br>ANGLES #2°<br>FINISH |           | 108-2292<br>APPLICATION SPEC                                                        |  |
| MATERIAL<br>-                          |  | WEIGHT<br>-                                                                                   |           | SIZE<br>A1                                                                          |  |
|                                        |  | Customer Drawing                                                                              |           | CAGE CODE<br>00779                                                                  |  |
|                                        |  |                                                                                               |           | DRAWING NO<br>6450840                                                               |  |
|                                        |  |                                                                                               |           | RESTRICTED TO<br>-                                                                  |  |
|                                        |  |                                                                                               |           | SCALE<br>1:1                                                                        |  |
|                                        |  |                                                                                               |           | SHEET<br>16                                                                         |  |
|                                        |  |                                                                                               |           | OF<br>16                                                                            |  |
|                                        |  |                                                                                               |           | REV<br>H4                                                                           |  |

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