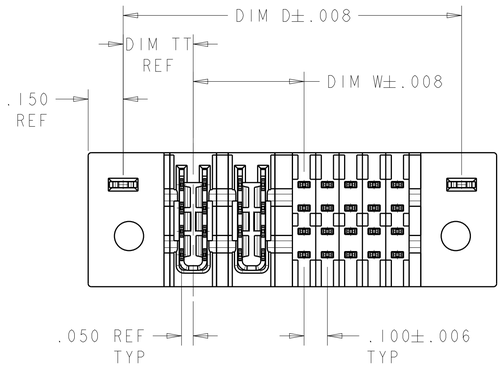
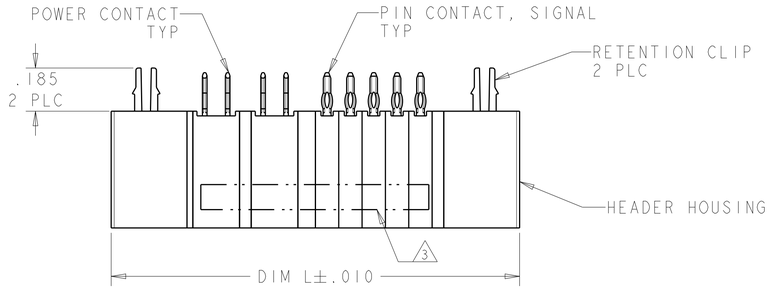
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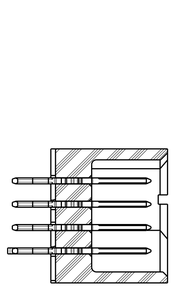
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| ES | 00 |

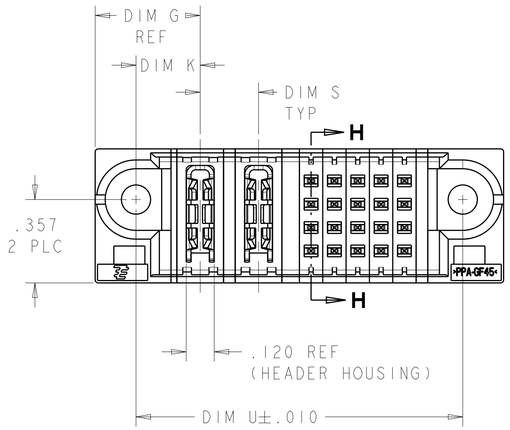
REVISIONS

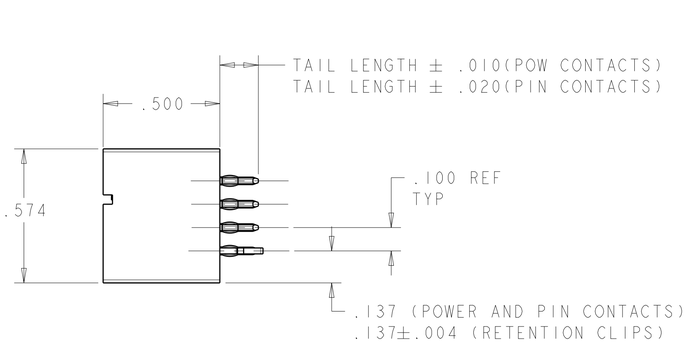
| P | LTR | DESCRIPTION | DATE | DWN | APVD |
|---|---|---|---|---|---|
| | G1 | ADD NEW PART -19 AND -20 | 14JAN2015 | AY | SZ |




1. HEADER HOUSING: THERMO PLASTIC, BLACK, UL94 V-O; CONTACTS AND RETENTION CLIPS: COPPER ALLOY.
2. CONTACT PLATING: NOBLE METAL PLATING ON CONTACT FUNCTIONAL AREA OF POWER AND SIGNAL CONTACTS
   RETENTION CLIP: .000115 MIN TIN.
3. "AMP", PART NUMBER AND DATE CODE MARKED IN THIS AREA. PARTS UNDER 2.50 LONG MAY BE MARKED ON BOTH SIDES.
4. DATUM AND BASIC DIMENSIONS ESTABLISHED BY CUSTOMER.
5. PCB - ALL HOLE DIAMETERS ARE FINISHED HOLE SIZES.
6. A SEATING TOOL IS REQUIRED TO SEAT THE HEADER ON THE P.C. BOARD. PLEASE REFER TO THE 114-13038 APPLICATION SPEC.
7. MECHANICAL CONNECTOR KEEP OUT ZONE.
8. VARIABLE DIMENSION SHOWED ON TABLE SHEET.

| | DIM "TT" | DIM "W" | DIM "U" | DIM "S" | DIM "L" | DIM "K" | DIM "G" | DIM "D" | RETENTION CLIP | DESCRIPTION | PART NUMBER |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | - | - | .700 | - | 1.050 | - | - | .750 | NO | 16S | 2-6600313-0 |
| | .300 | .925 | 1.500 | .250 | 1.850 | .275 | .450 | 1.550 | NO | 4P + 8S | 1-6600313-9 |
| F | - | .425 | 3.100 | .250 | 3.450 | .275 | .450 | - | NO | 2P + 92S | 1-6600313-8 |
| | - | 2.150 | 3.225 | 8 | 3.575 | .350 | .525 | - | NO | 3ACP + 6P + 24S | 1-6600313-7 |
| | .300 | .925 | 1.800 | .250 | 2.150 | .275 | .450 | 1.850 | NO | 4P + 20S | 1-6600313-6 |
| | .300 | .425 | 1.200 | .250 | 1.550 | .275 | .450 | 1.250 | YES | 2P + 16S | 1-6600313-5 |
| | .300 | 2.425 | 3.800 | .250 | 4.150 | .275 | .450 | 3.850 | YES | 10P + 40S | 1-6600313-4 |
| | .300 | .975 | 1.650 | .250 | 2.000 | .275 | .450 | 1.700 | YES | 4P + 12S | 1-6600313-3 |
| | - | - | .600 | - | .950 | - | - | .650 | YES | 8S | 1-6600313-2 |
| | .325 | 2.600 | 3.200 | .300 | 3.550 | .300 | .475 | 3.250 | YES | 9ACP + 8S | 1-6600313-1 |
| | .300 | .925 | 1.500 | .250 | 1.850 | .275 | .450 | 1.550 | YES | 4P + 8S | 1-6600313-0 |
| | .275 | 1.800 | 2.400 | .200 | 2.750 | .250 | .425 | 2.450 | YES | 9HDP + 8S | 6600313-9 |
| | .300 | 1.375 | 1.850 | .200 | 2.200 | .275 | .450 | 1.900 | YES | 7HDP + 4S | 6600313-8 |
| F1 | .325 | 1.825 | 2.825 | 8 | 3.175 | .300 | .475 | 2.875 | YES | 3ACP + 4P + 24S | 6600313-6 |
| | .325 | 1.500 | 2.250 | .250 | 2.600 | .300 | .475 | 2.300 | YES | 6P + 12S | 6600313-3 |
| | .300 | .475 | 1.400 | .250 | 1.750 | .275 | .450 | 1.450 | YES | 2P + 20S | 6600313-2 |

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DIMENSIONS: INCH

TOLERANCES UNLESS OTHERWISE SPECIFIED:
0 PLC ±-
1 PLC ±0.1
2 PLC ±-
3 PLC ±0.005
4 PLC ±-
ANGLES ±-

MATERIAL 1
FINISH 2

DWN J.McCLINTON 06OCT05
CHK D.TROUT 06OCT05
APVD R.WHYNE 06OCT05
PRODUCT SPEC 108-1973
APPLICATION SPEC 114-13038
WEIGHT -

Tyco Electronics Corporation
ShangHai,P.R.China.200233

NAME VERTICAL HEADER ASSEMBLY,W/GUIDES PRESS FIT,TYPE PS MULTI-BEAM XL -

| SIZE | CAGE CODE | DRAWING NO | RESTRICTED TO |
|---|---|---|---|
| A1 | 00779 | C-6600313 | - |

CUSTOMER DRAWING | SCALE 3:1 | SHEET 1 OF 7 | REV G1

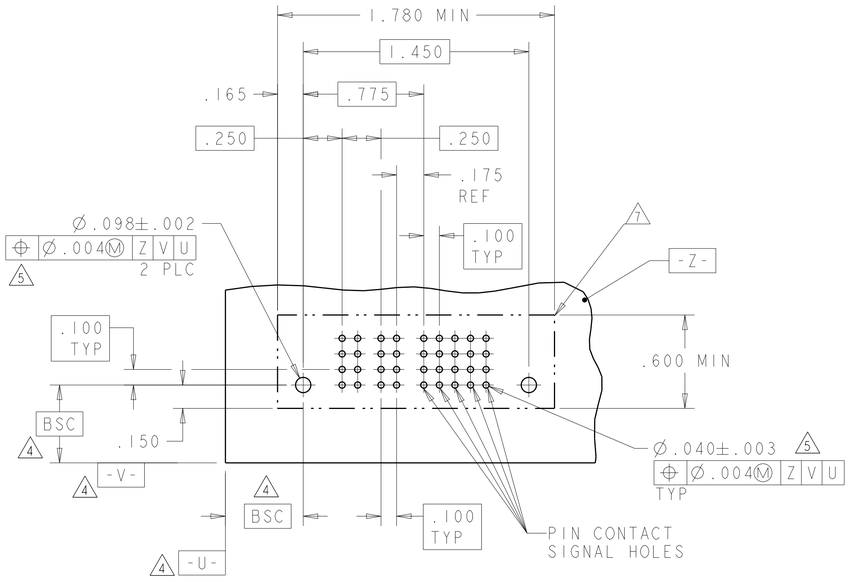
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| LOC | DIST |
|---|---|
| ES | 00 |

REVISIONS

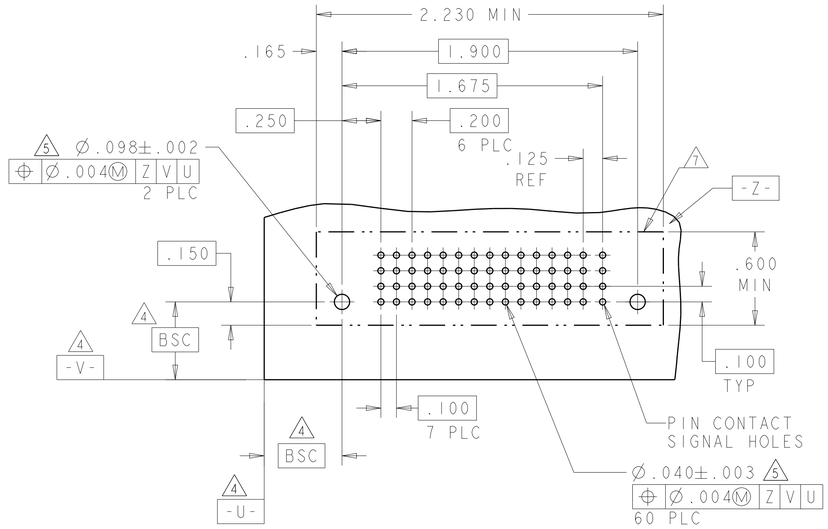
| P | LTR | DESCRIPTION | DATE | DWN | APVD |
|---|---|---|---|---|---|
| | - | SEE SHEET 1 | - | - | - |

| PART NUMBER | ROWS | | POWER | | SIGNAL | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | P1 | P2 | 1 | 2 | 3 | 4 | 5 | |
| 6600313-2 | D | | VM | VM | EV | EV | EV | EV | EV | |
| | C | | | | EV | EV | EV | EV | EV | |
| | B | | | | EV | EV | EV | EV | EV | |
| | A | | | | EV | EV | EV | EV | EV | |
| 2P+20S | | HD | | | | | | | | HD |

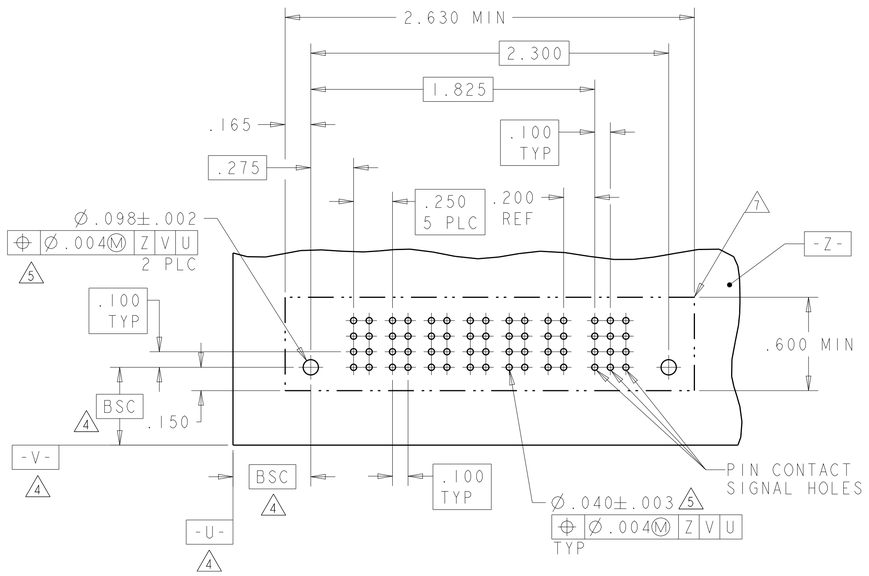



RECOMMENDED PCB LAYOUT 6600313-2
SCALE 2:1

| PART NUMBER | ROWS | | POWER | | | | | | | | S | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | P1 | P2 | P3 | P4 | P5 | P6 | P7 | | 1 | |
| 6600313-8 | D | | VM | VM | VM | VM | VM | VM | VM | | EV | |
| | C | | | | | | | | | | EV | |
| | B | | | | | | | | | | EV | |
| | A | | | | | | | | | | ES | |
| 7HDP+4S | | HD | | | | | | | | | | HD |




| PART NUMBER | ROWS | | POWER | | | | | | SIGNAL | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | P1 | P2 | P3 | P4 | P5 | P6 | 1 | 2 | 3 | |
| 6600313-3 | D | | VM | VM | VM | VM | VM | VM | EV | EV | EV | |
| | C | | | | | | | | EV | EV | EV | |
| | B | | | | | | | | EV | EV | EV | |
| | A | | | | | | | | EV | EV | EV | |
| 6P+12S | | HD | | | | | | | | | | HD |




RECOMMENDED PCB LAYOUT 6600313-3
SCALE 2:1

| MATING SEQUENCE | DESCRIPTION | IDENTIFIER |
|---|---|---|
| - | RETENTION CLIP | HD |
| MLBF | SIGNAL CONTACT, .165 TAIL LENGTH, PRESS FIT. | ES |
| STANDARD | SIGNAL CONTACT, .165 TAIL LENGTH, PRESS FIT. | EV |
| - | POWER CONTACT, .165 TAIL LENGTH, PRESS FIT. | VM |

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DWN J.McCLINTON 06OCT05
CHK D.TROUT 06OCT05
APVD R.WHYNE 06OCT05
PRODUCT SPEC 108-1973
APPLICATION SPEC 114-13038
WEIGHT -

DIMENSIONS: INCH
TOLERANCES UNLESS OTHERWISE SPECIFIED:
0 PLC ±-
1 PLC ±0.1
2 PLC ±-
3 PLC ±0.005
4 PLC ±-
ANGLES ±-
MATERIAL
FINISH

Tyco Electronics Corporation
ShangHai,P.R.China.200233

NAME VERTICAL HEADER ASSEMBLY,W/GUIDES PRESS FIT,TYPE PS MULTI-BEAM XL
-

| SIZE | CAGE CODE | DRAWING NO | RESTRICTED TO |
|---|---|---|---|
| A1 | 00779 | C-6600313 | - |

CUSTOMER DRAWING | SCALE 3:1 | SHEET 2 OF 7 | REV G1

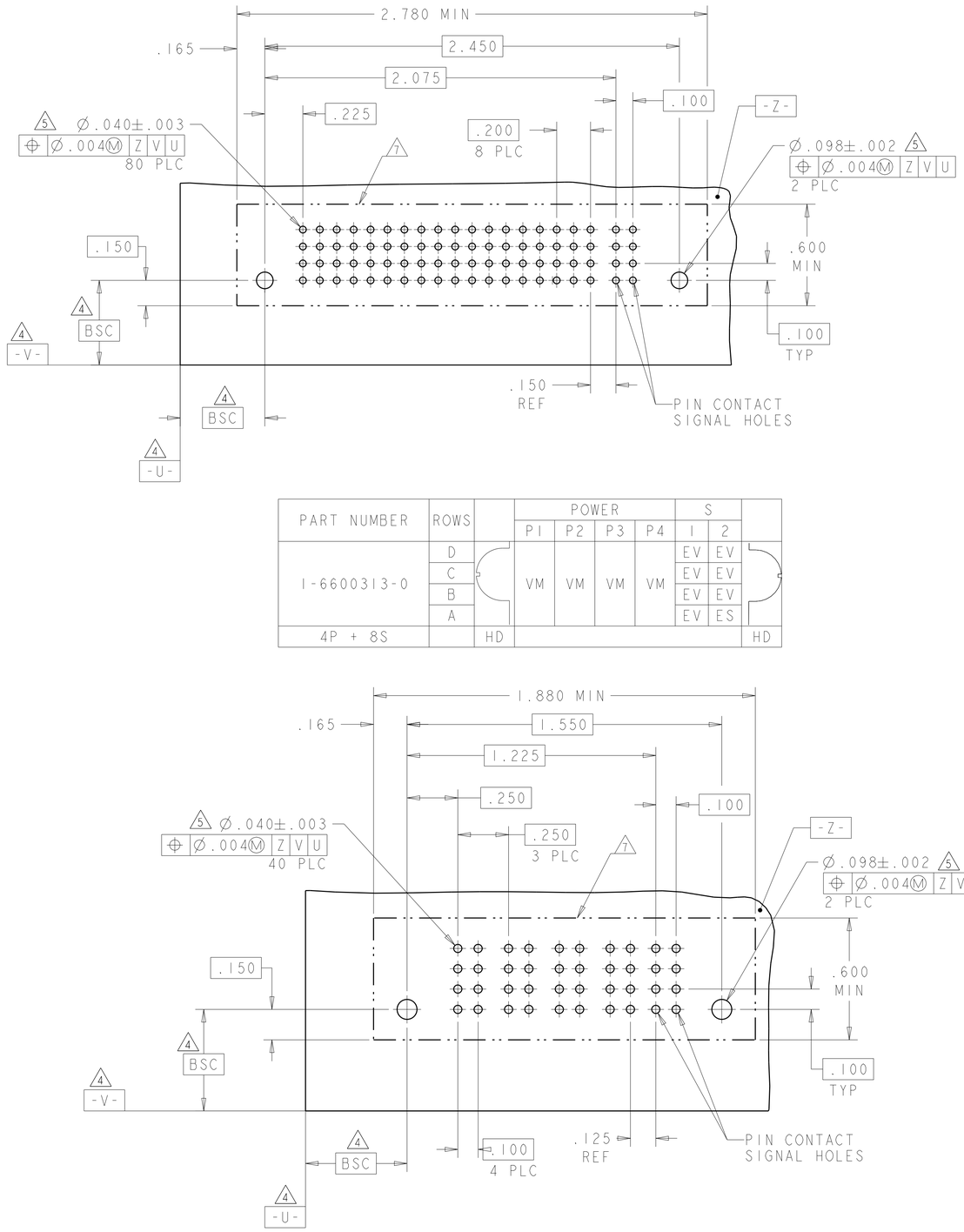
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| LOC | DIST |
|---|---|
| ES | 00 |

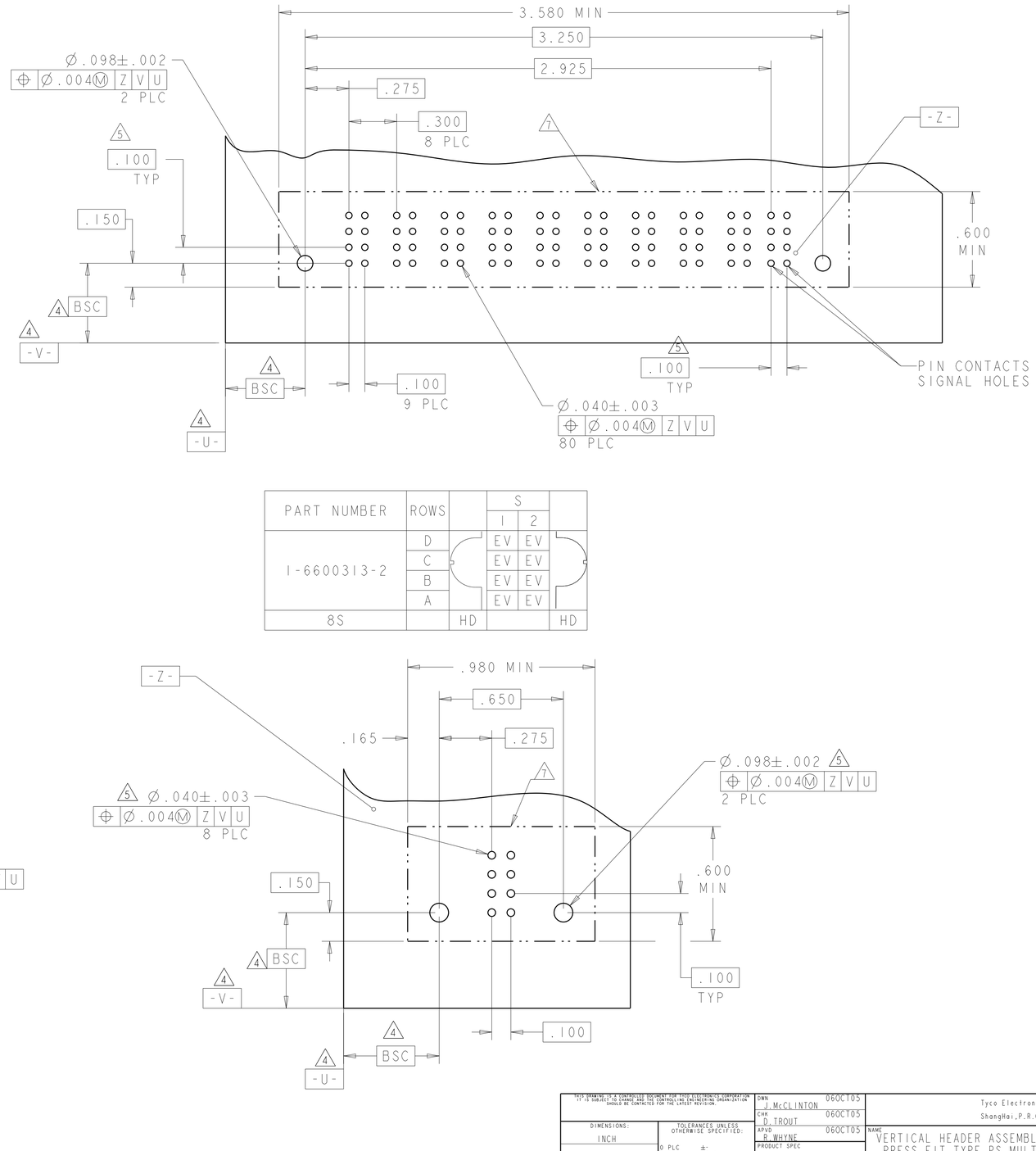
REVISIONS

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

| PART NUMBER | ROWS | | POWER | | | | | | | | | S | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | P1 | P2 | P3 | P4 | P5 | P6 | P7 | P8 | P9 | 1 | 2 | |
| 6600313-9 | D | | VM | VM | VM | VM | VM | VM | VM | VM | VM | EV | EV | |
| | C | | | | | | | | | | | EV | EV | |
| | B | | | | | | | | | | | EV | EV | |
| | A | | | | | | | | | | | EV | EV | |
| 9HDP+8S | | HD | | | | | | | | | | | | HD |




| PART NUMBER | ROWS | | POWER | | | | | | | | | S | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | P1 | P2 | P3 | P4 | P5 | P6 | P7 | P8 | P9 | 1 | 2 | |
| 1-6600313-1 | D | | VM | VM | VM | VM | VM | VM | VM | VM | VM | EV | EV | |
| | C | | | | | | | | | | | EV | EV | |
| | B | | | | | | | | | | | EV | EV | |
| | A | | | | | | | | | | | EV | EV | |
| 9ACP+8S | | HD | | | | | | | | | | | | HD |




| PART NUMBER | ROWS | | POWER | | | | S | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | P1 | P2 | P3 | P4 | 1 | 2 | |
| 1-6600313-0 | D | | VM | VM | VM | VM | EV | EV | |
| | C | | | | | | EV | EV | |
| | B | | | | | | EV | EV | |
| | A | | | | | | EV | ES | |
| 4P + 8S | | HD | | | | | | | HD |




| PART NUMBER | ROWS | | S | | |
|---|---|---|---|---|---|
| | | | 1 | 2 | |
| 1-6600313-2 | D | | EV | EV | |
| | C | | EV | EV | |
| | B | | EV | EV | |
| | A | | EV | EV | |
| 8S | | HD | | | HD |




| | | | |
|---|---|---|---|
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| | CHK D.TROUT 06OCT05 | | |
| DIMENSIONS: INCH | APVD R.WHYNE 06OCT05 | NAME VERTICAL HEADER ASSEMBLY,W/GUIDES PRESS FIT,TYPE PS MULTI-BEAM XL | |
| TOLERANCES UNLESS OTHERWISE SPECIFIED: 0 PLC ±- 1 PLC ±0.1 2 PLC ±- 3 PLC ±0.005 4 PLC ±- ANGLES ±- | PRODUCT SPEC 108-1973 - | | |
| | APPLICATION SPEC 114-13038 | SIZE A1 CAGE CODE 00779 DRAWING NO C-6600313 | RESTRICTED TO - |
| MATERIAL | WEIGHT - | | |
| FINISH | CUSTOMER DRAWING | SCALE 3:1 SHEET 3 OF 7 | REV G1 |

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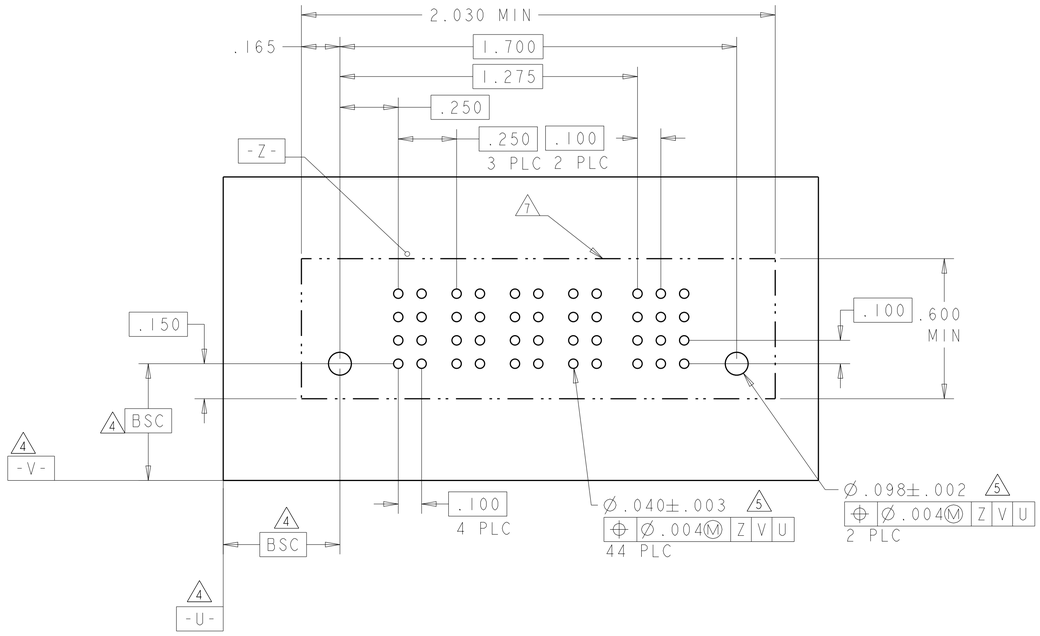
| LOC | DIST |
|---|---|
| ES | 00 |

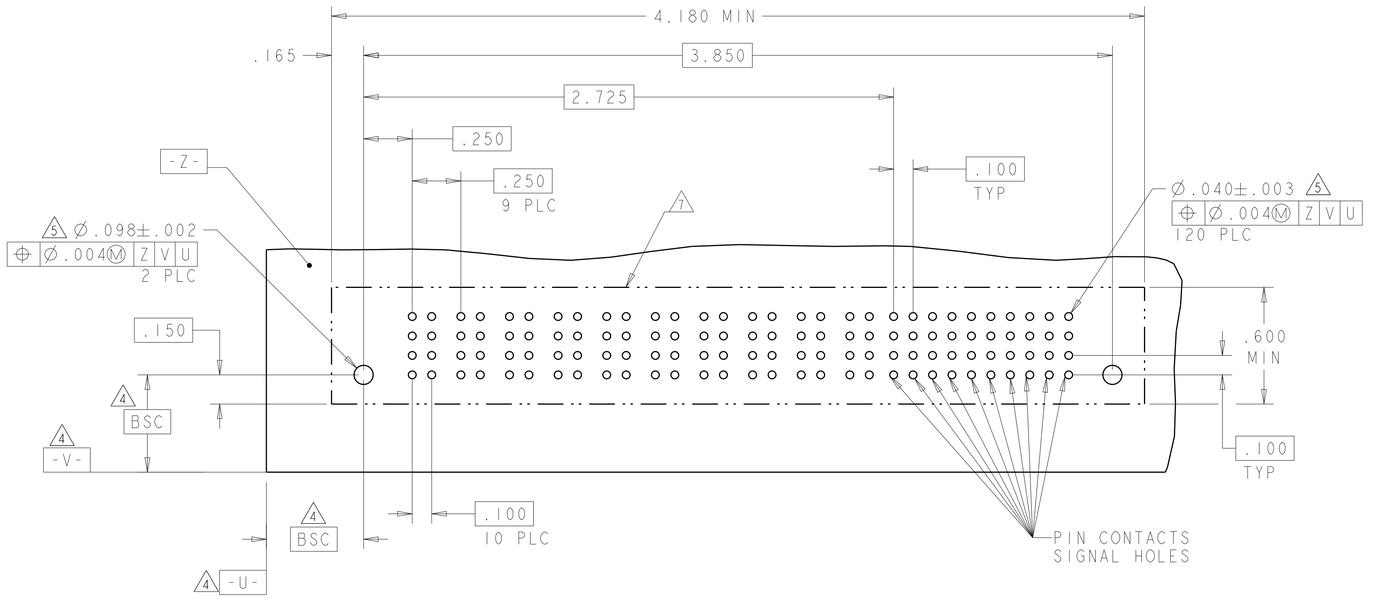
REVISIONS

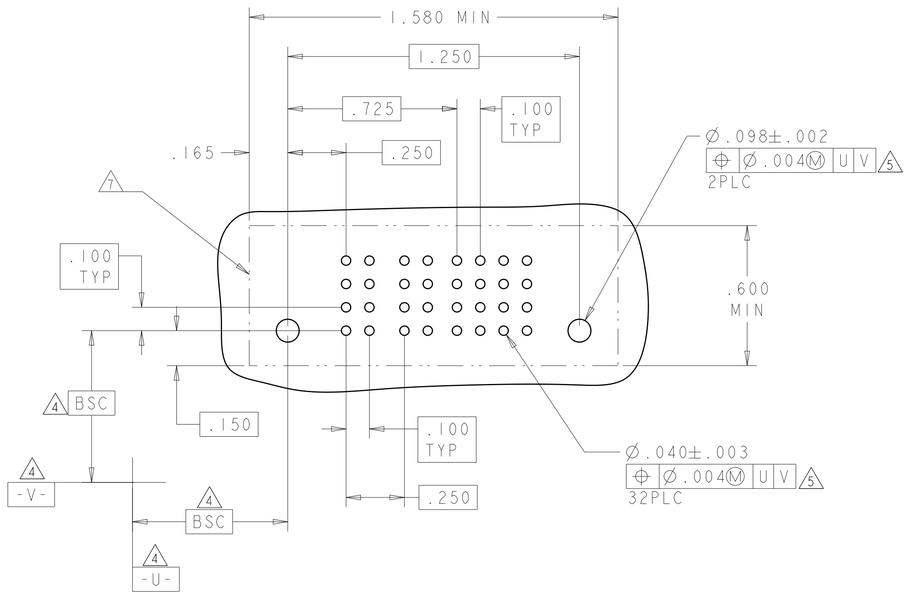
| P | LTR | DESCRIPTION | DATE | DWN | APVD |
|---|---|---|---|---|---|
| | - | SEE SHEET 1 | - | - | - |

| PART NUMBER | ROWS | | POWER | | | | SIGNAL | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | P1 | P2 | P3 | P4 | 1 | 2 | 3 | |
| 1-6600313-3 | D | | VM | VM | VM | VM | EV | EV | EV | |
| | C | | | | | | EV | EV | EV | |
| | B | | | | | | EV | EV | EV | |
| | A | | | | | | EV | EV | EV | |
| 4P + 12S | | HD | | | | | | | | HD |

| PART NUMBER | ROWS | | POWER | | | | | | | | | | SIGNAL | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | P1 | P2 | P3 | P4 | P5 | P6 | P7 | P8 | P9 | P10 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| 1-6600313-4 | D | | VM | VM | VM | VM | VM | VM | VM | VM | VM | VM | EV | EV | EV | EV | EV | EV | EV | EV | EV | EV |
| | C | | | | | | | | | | | | EV | EV | EV | EV | EV | EV | EV | EV | EV | EV |
| | B | | | | | | | | | | | | EV | EV | EV | EV | EV | EV | EV | EV | EV | EV |
| | A | | | | | | | | | | | | EV | EV | EV | EV | EV | EV | EV | EV | EV | EV |
| 10P+40S | | HD | | | | | | | | | | | | | | | | | | | | HD |




| PART NUMBER | ROWS | | POWER | | SIGNAL | | | |
|---|---|---|---|---|---|---|---|---|
| | | | P1 | P2 | 1 | 2 | 3 | 4 |
| 1-6600313-5 | D | | VM | VM | EV | EV | EV | EV |
| | C | | | | EV | EV | EV | EV |
| | B | | | | EV | EV | EV | EV |
| | A | HD | | | EV | EV | EV | EV |
| 2P + 16S | | | | | | | | HD |

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DIMENSIONS: INCH

TOLERANCES UNLESS OTHERWISE SPECIFIED:
0 PLC ±-
1 PLC ±0.1
2 PLC ±-
3 PLC ±0.005
4 PLC ±-
ANGLES ±-

MATERIAL
FINISH

| | | |
|---|---|---|
| DWN | J.McCLINTON | 06OCT05 |
| CHK | D.TROUT | 06OCT05 |
| APVD | R.WHYNE | 06OCT05 |
| PRODUCT SPEC | 108-1973 | |
| APPLICATION SPEC | 114-13038 | |
| WEIGHT | - | |

Tyco Electronics Corporation
ShangHai,P.R.China.200233

NAME
VERTICAL HEADER ASSEMBLY,W/GUIDES
PRESS FIT,TYPE PS MULTI-BEAM XL
-

| SIZE | CAGE CODE | DRAWING NO | RESTRICTED TO |
|---|---|---|---|
| A1 | 00779 | C-6600313 | - |

CUSTOMER DRAWING | SCALE 3:1 | SHEET 4 OF 7 | REV G1

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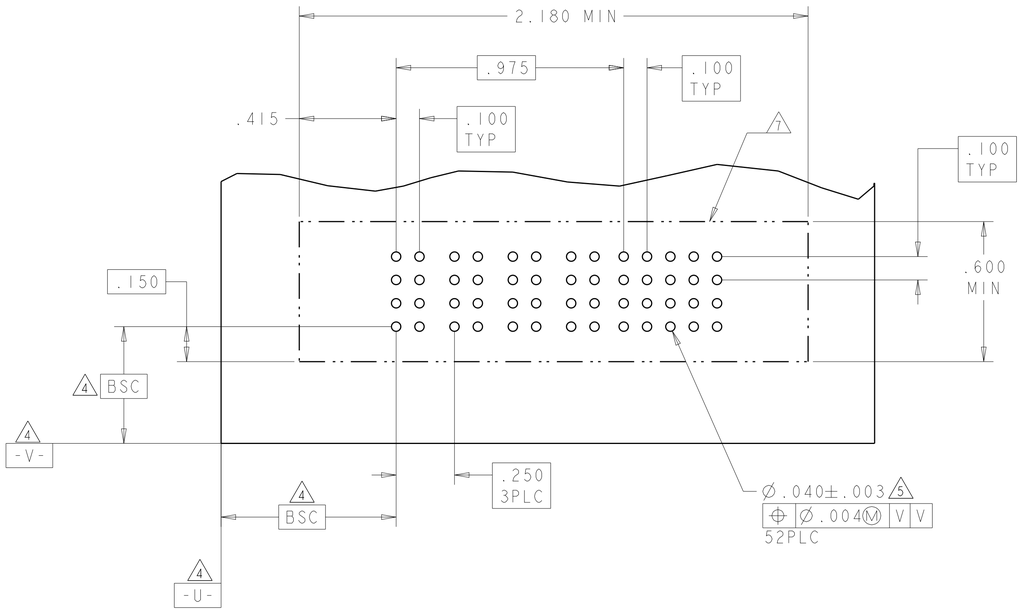
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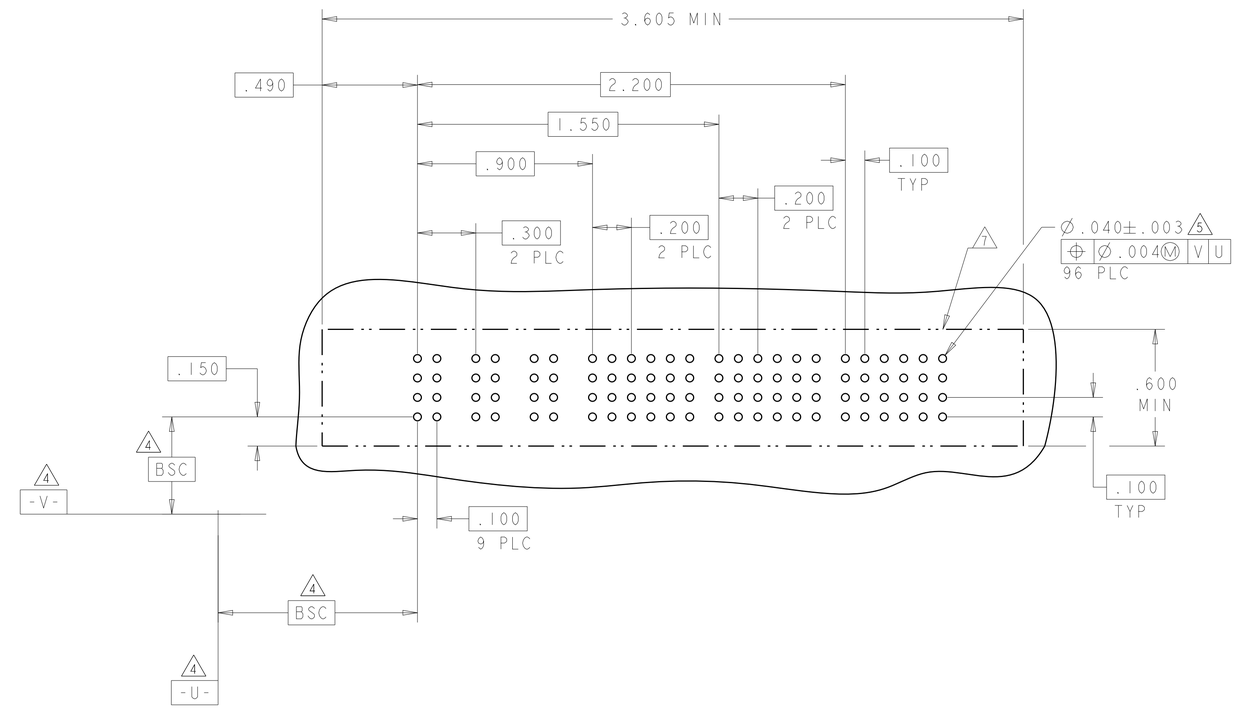
REVISIONS

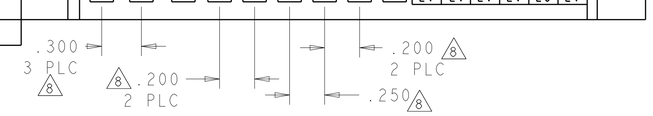
| P | LTR | DESCRIPTION | DATE | DWN | APVD |
|---|---|---|---|---|---|
| | - | SEE SHEET 1 | - | - | - |

| PART NUMBER | ROWS | POWER | | | | S | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | P1 | P2 | P3 | P4 | 1 | 2 | 3 | 4 | 5 |
| 1-6600313-6 | D | VM | VM | VM | VM | EV | EV | EV | EV | EV |
| | C | | | | | EV | EV | EV | EV | EV |
| | B | | | | | EV | EV | EV | EV | EV |
| | A | | | | | EV | EV | EV | EV | EV |
| 4P + 20S | | | | | | | | | | |

| PART NUMBER | ROWS | POWER | | | | | | | | | SIGNAL | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | P1 | P2 | P3 | P4 | P5 | P6 | P7 | P8 | P9 | 1 | 2 | 3 | 4 | 5 | 6 | |
| 1-6600313-7 | D | VM | VM | VM | VM | VM | VM | VM | VM | VM | EV | ES | EV | EV | EV | ES | |
| | C | | | | | | | | | | EV | EV | EV | EV | ES | ES | |
| | B | | | | | | | | | | EV | EV | EV | EV | ES | ES | |
| | A | | | | | | | | | | EV | EV | EV | EV | ES | EV | |
| 3ACP + 6P + 24S | | | | | | | | | | | | | | | | | |




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DIMENSIONS: INCH

TOLERANCES UNLESS OTHERWISE SPECIFIED:
0 PLC ±-
1 PLC ±0.1
2 PLC ±-
3 PLC ±0.005
4 PLC ±-
ANGLES ±-

MATERIAL

FINISH

| | |
|---|---|
| DWN J.McCLINTON | 06OCT05 |
| CHK D.TROUT | 06OCT05 |
| APVD R.WHYNE | 06OCT05 |
| PRODUCT SPEC 108-1973 | |
| APPLICATION SPEC 114-13038 | |
| WEIGHT - | |

Tyco Electronics Corporation
ShangHai,P.R.China.200233

NAME VERTICAL HEADER ASSEMBLY,W/GUIDES PRESS FIT,TYPE PS MULTI-BEAM XL -

| SIZE | CAGE CODE | DRAWING NO | RESTRICTED TO |
|---|---|---|---|
| A1 | 00779 | C-6600313 | - |

CUSTOMER DRAWING | SCALE 3:1 | SHEET 5 OF 7 | REV G1

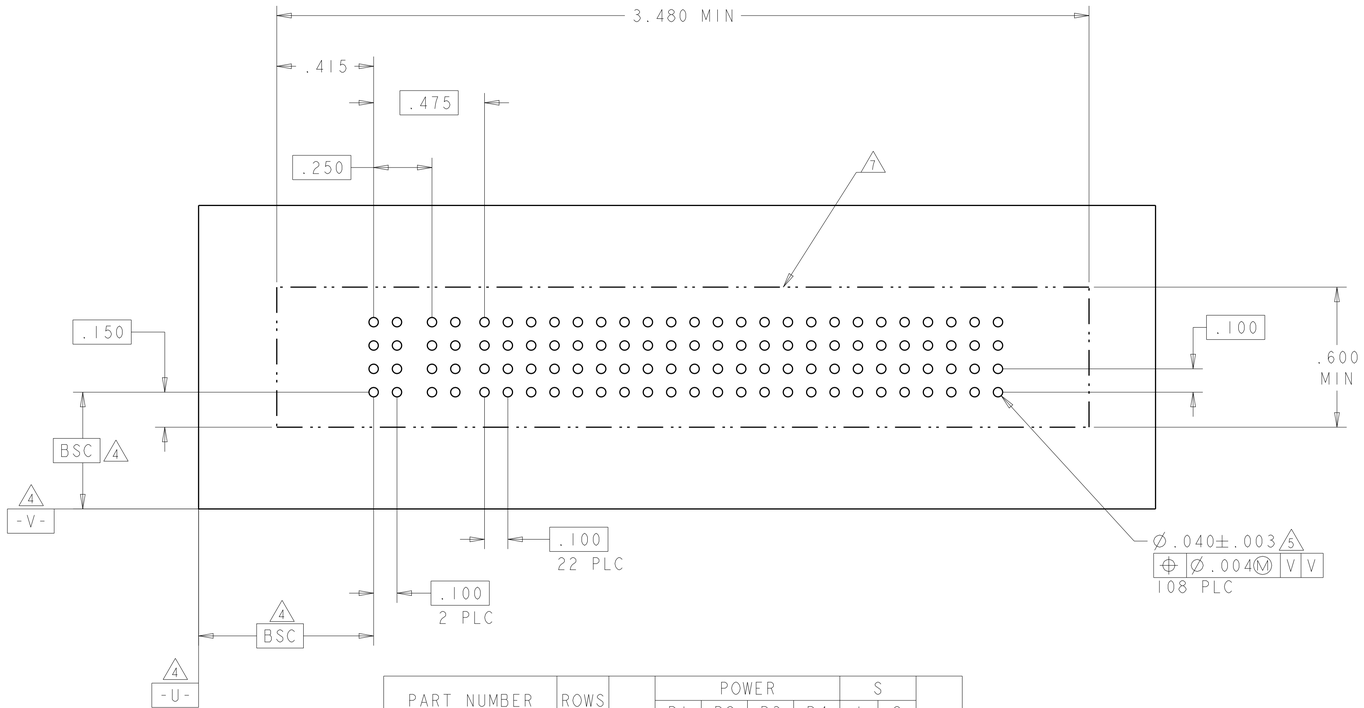
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| LOC | DIST |
|---|---|
| ES | 00 |

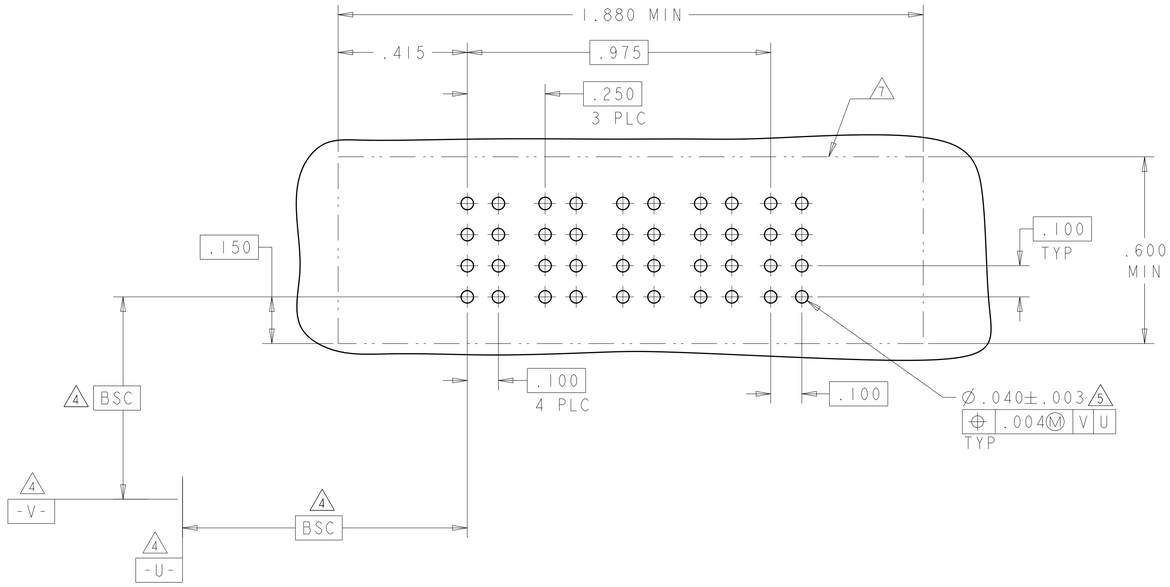
REVISIONS

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

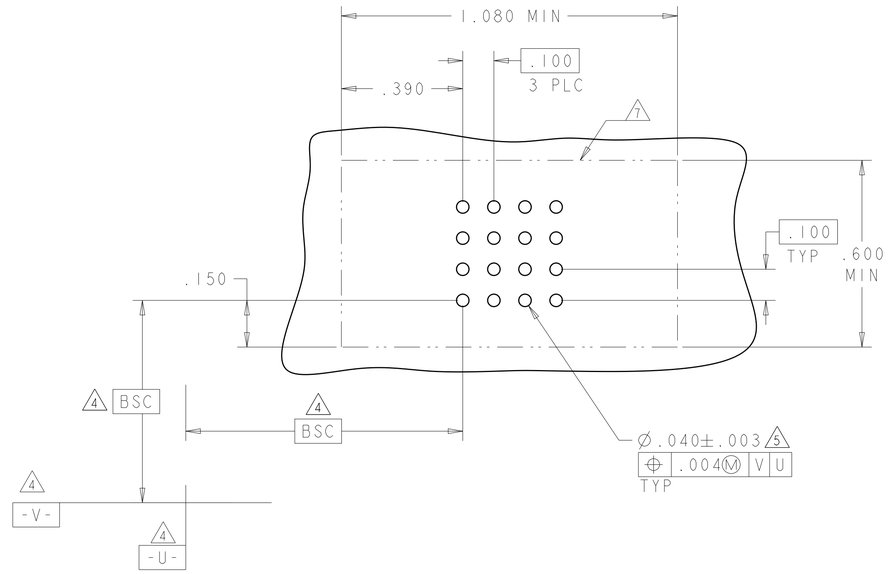
| PART NUMBER | ROWS | POWER P1 | POWER P2 | SIGNAL 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1-6600313-8 | D | VM | VM | EV | EV | EV | EV | EV | EV | EV | EV | EV | EV | EV | EV | EV | EV | EV | EV | EV | EV | EV | EV | EV | EV | EV |
| | C | | | EV | EV | EV | EV | EV | EV | EV | EV | EV | EV | EV | EV | EV | EV | EV | EV | EV | EV | EV | EV | EV | EV | EV |
| | B | | | EV | EV | EV | EV | EV | EV | EV | EV | EV | EV | EV | EV | EV | EV | EV | EV | EV | EV | EV | EV | EV | EV | EV |
| | A | | | EV | EV | EV | EV | EV | EV | EV | EV | EV | EV | EV | EV | EV | EV | EV | EV | EV | EV | EV | EV | EV | EV | EV |
| 2P + 92S | | | | | | | | | | | | | | | | | | | | | | | | | | |




| PART NUMBER | ROWS | POWER P1 | POWER P2 | POWER P3 | POWER P4 | S 1 | S 2 |
|---|---|---|---|---|---|---|---|
| 1-6600313-9 | D | VM | VM | VM | VM | EV | EV |
| | C | | | | | EV | EV |
| | B | | | | | EV | EV |
| | A | | | | | EV | EV |
| 4P + 8S | | | | | | | |




| PART NUMBER | ROWS | S 1 | S 2 | S 3 | S 4 |
|---|---|---|---|---|---|
| 2-6600313-0 | D | ES | EV | ES | ES |
| | C | ES | EV | ES | ES |
| | B | ES | EV | ES | ES |
| | A | ES | EV | ES | ES |
| 16S | | | | | |




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DIMENSIONS: INCH

TOLERANCES UNLESS OTHERWISE SPECIFIED:
0 PLC ±-
1 PLC ±0.1
2 PLC ±-
3 PLC ±0.005
4 PLC ±-
ANGLES ±-

MATERIAL
FINISH

| | |
|---|---|
| DWN | 06OCT05 J.McCLINTON |
| CHK | 06OCT05 D.TROUT |
| APVD | 06OCT05 R.WHYNE |
| PRODUCT SPEC | 108-1973 |
| APPLICATION SPEC | 114-13038 |
| WEIGHT | - |

CUSTOMER DRAWING

Tyco Electronics Corporation
ShangHai,P.R.China.200233

NAME VERTICAL HEADER ASSEMBLY,W/GUIDES PRESS FIT,TYPE PS MULTI-BEAM XL -

| SIZE | CAGE CODE | DRAWING NO | RESTRICTED TO |
|---|---|---|---|
| A1 | 00779 | C-6600313 | - |

SCALE 3:1 SHEET 6 OF 7 REV G1

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| LOC | DIST |
|---|---|
| ES | 00 |

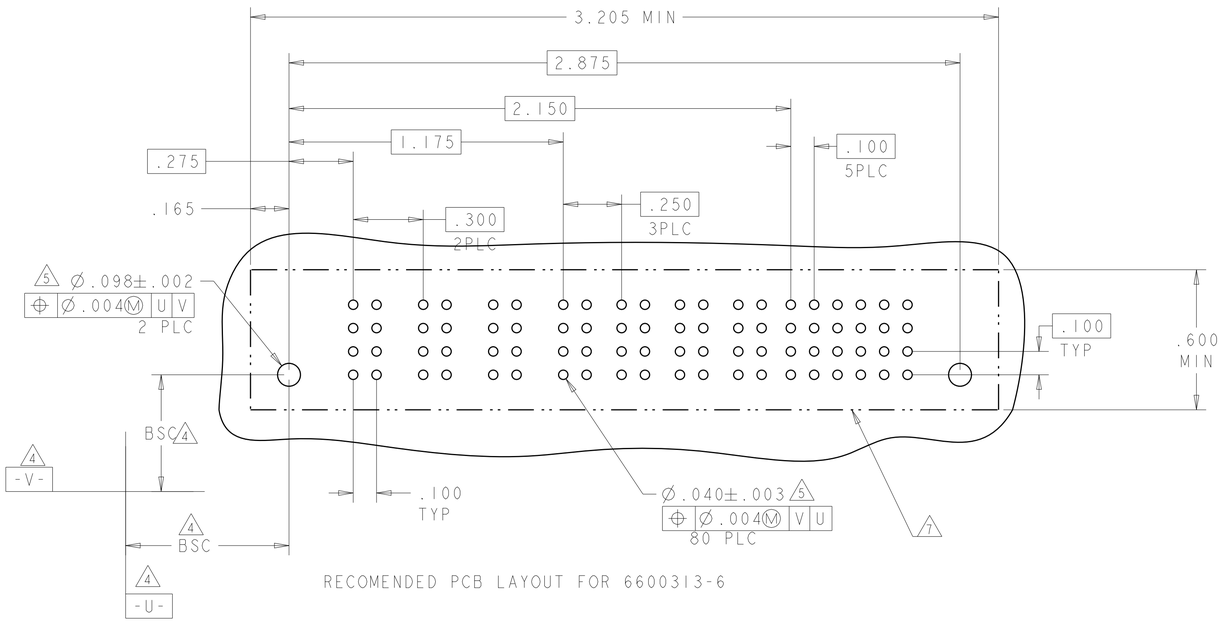
REVISIONS

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

| PART NUMBER | ROWS | POWER | | | | | | | SIGNAL | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | P1 | P2 | P3 | P4 | P5 | P6 | P7 | 1 | 2 | 3 | 4 | 5 | 6 |
| 6600313-6 | D | VM | VM | VM | VM | VM | VM | VM | EV | ES | EV | EV | EV | ES |
| | C | | | | | | | | EV | EV | EV | ES | EV | ES |
| | B | | | | | | | | EV | ES | EV | EV | EV | ES |
| | A | | | | | | | | EV | ES | EV | EV | ES | ES |
| 3ACP + 4P + 24S | | HD | | | | | | | | | | | | HD |

△8 .300 3 PLC

△8 .250 3 PLC




RECOMENDED PCB LAYOUT FOR 6600313-6

THIS DRAWING IS A CONTROLLED DOCUMENT OF TYCO ELECTRONICS CORPORATION IT IS SUBJECT TO CHANGE AND THE CONTROLLING ENGINEERING ORGANIZATION SHOULD BE CONTACTED FOR THE LATEST REVISION.

DIMENSIONS: INCH

TOLERANCES UNLESS OTHERWISE SPECIFIED:
0 PLC ±-
1 PLC ±0.1
2 PLC ±-
3 PLC ±0.005
4 PLC ±-
ANGLES ±-

MATERIAL

FINISH

DWN J.McCLINTON 06OCT05
CHK D.TROUT 06OCT05
APVD R.WHYNE 06OCT05
PRODUCT SPEC 108-1973
APPLICATION SPEC 114-13038
WEIGHT -

Tyco Electronics Corporation
ShangHai,P.R.China.200233

NAME VERTICAL HEADER ASSEMBLY,W/GUIDES PRESS FIT,TYPE PS MULTI-BEAM XL
-

| SIZE | CAGE CODE | DRAWING NO | RESTRICTED TO |
|---|---|---|---|
| A1 | 00779 | C-6600313 | - |

CUSTOMER DRAWING | SCALE 3:1 | SHEET 7 OF 7 | REV G1