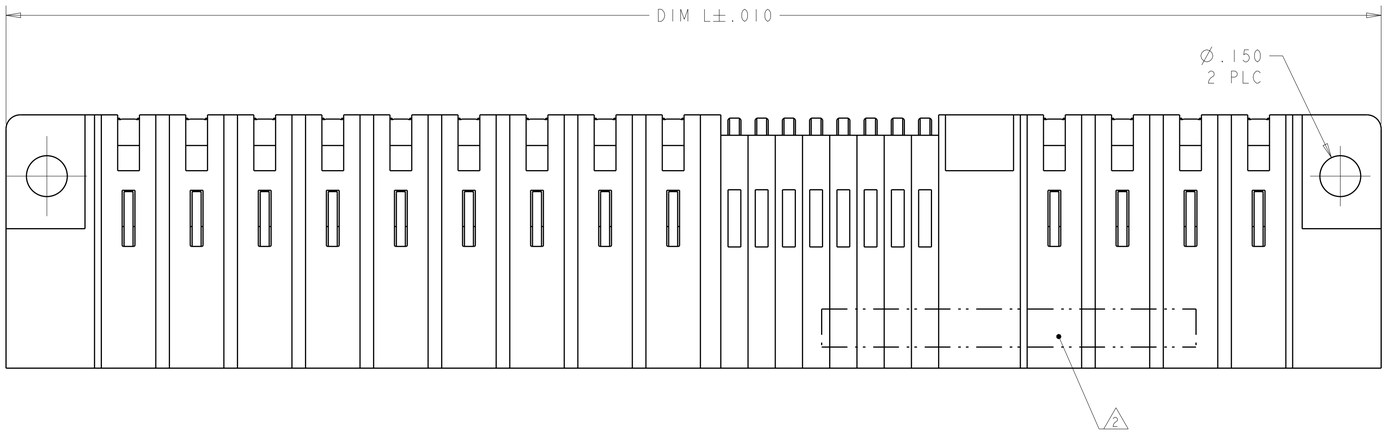
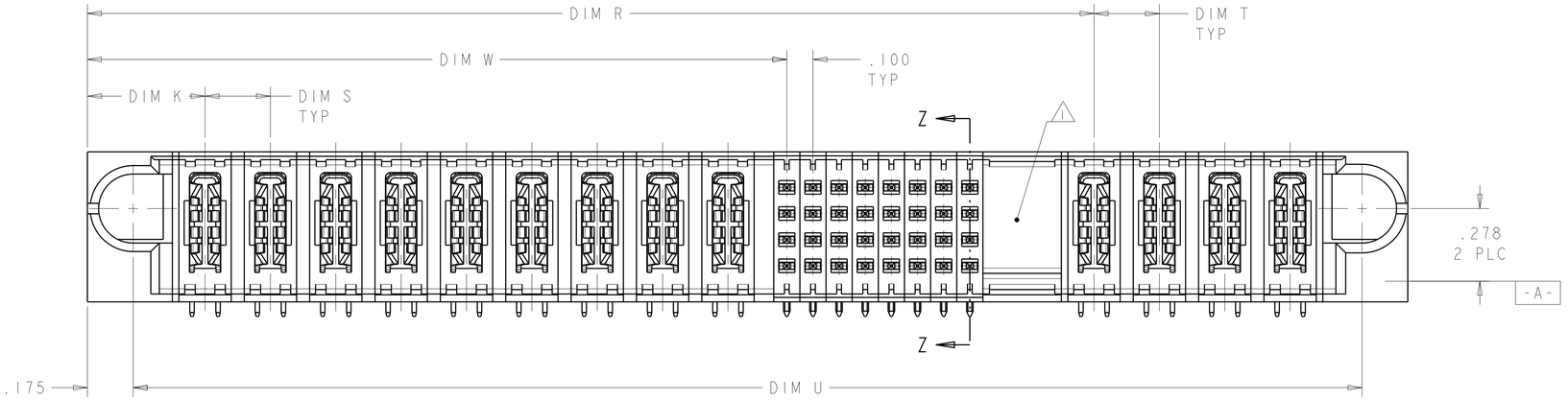
THIS DRAWING IS UNPUBLISHED. RELEASED FOR PUBLICATION 20
© COPYRIGHT 20 BY TYCO ELECTRONICS CORPORATION. ALL RIGHTS RESERVED.

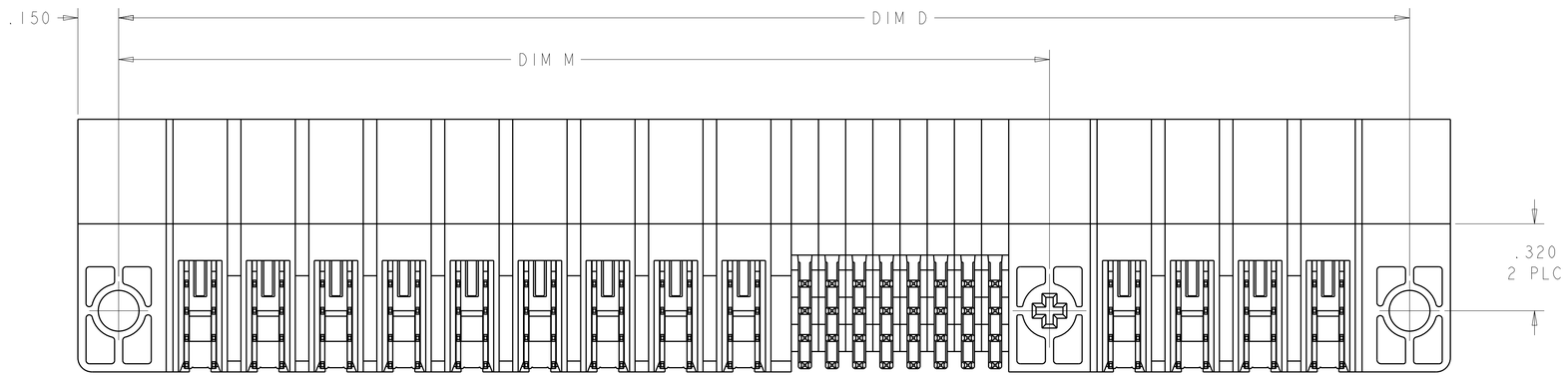
| LOC | DIST |
|---|---|
| GP | 00 |

REVISIONS

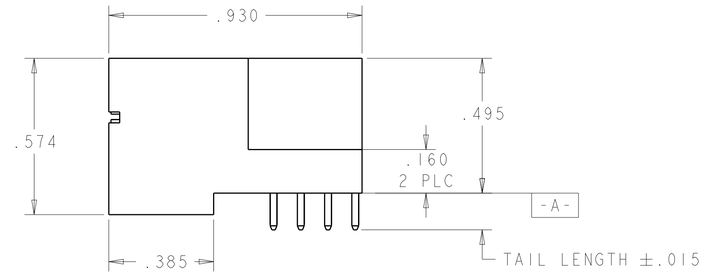
| P | LTR | DESCRIPTION | DATE | DWN | APVD |
|---|---|---|---|---|---|
| | D2 | ADDED NEW DASH NUMBER -13 | 02NOV2009 | IL | SY |
| | E | REV PER ECR-09-024231 | 06NOV2009 | IL | SY |
| | E1 | REV PER ECR-09-025057 | 16NOV2009 | IL | SY |

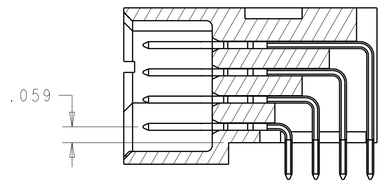



1. OPTIONAL CENTER MODULE WITH Ø.150 THRU HOLE OR HOLD DOWN FEATURE.
2. "AMP", PART NUMBER, AND DATE CODE TO BE MARKED IN AREA SHOWN.
3. MATERIAL: HOUSING - GLASS FILLED HIGH TEMP THERMO PLASTIC, UL94 V-0,BLACK
   SIGNAL CONTACT - COPPER ALLOY
   POWER CONTACT - HIGH CONDUCTIVITY COPPER ALLOY
4. CONTACT PLATING: NOBLE METAL PLATING ON CONTACT FUNCTIONAL AREA OF POWER AND SIGNAL CONTACTS
5. MECHANICAL CONNECTOR KEEP OUT ZONE.
6. DATUM AND BASIC DIMENSIONS ESTABLISHED BY CUSTOMER.
7. PCB - ALL HOLE DIAMETERS ARE FINISHED HOLE SIZES.
8. PCB - .0453 +/-.0010 DRILLED HOLES PLATES WITH .0003 MIN Sn OVER .001 TO .003 PLATING TO ACHIEVE A .040 DIA. HOLE.
9. VARIABLE DIMENSION SHOW ON VIEW (SHEET 4,5).




SECTION Z-Z

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

DIMENSIONS: INCHES

TOLERANCES UNLESS OTHERWISE SPECIFIED:

| | |
|---|---|
| 0 PLC | ± - |
| 1 PLC | ± - |
| 2 PLC | ± .01 |
| 3 PLC | ± .005 |
| 4 PLC | ± .0020 |
| ANGLES | ±2° |

MATERIAL: - 3

FINISH: - 4

| | | |
|---|---|---|
| DWN | R GRZYBOWSKI | 30MAR05 |
| CHK | M PERCHERKE | 30MAR05 |
| APVD | M PERCHERKE | - |
| PRODUCT SPEC | 108-1973 | |
| APPLICATION SPEC | 114-13038 | |
| WEIGHT | - | |

Tyco Electronics Corporation
Harrisburg, PA 17105-3608

NAME: RIGHT ANGLE HEADER W/GUIDES ASSEMBLY MULTI-BEAM XL
-

| SIZE | CAGE CODE | DRAWING NO | RESTRICTED TO |
|---|---|---|---|
| A1 | 00779 | C-6450320 | - |

CUSTOMER DRAWING | SCALE 4:1 | SHEET 1 OF 7 | REV E2

THIS DRAWING IS UNPUBLISHED. RELEASED FOR PUBLICATION 20
© COPYRIGHT 20 BY TYCO ELECTRONICS CORPORATION. ALL RIGHTS RESERVED.

| LOC | DIST |
|---|---|
| GP | 00 |

REVISIONS

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

(D2)

| DIM U | S | T | R | W | D | M | L | K | DESCRIPTION | PART NUMBER |
|---|---|---|---|---|---|---|---|---|---|---|
| 3.700 | .250 | .250 | 2.850 | 1.375 | 3.750 | - | 4.050 | .450 | 4P + 56S + 4P | 1-6450320-3 |
| 2.400 | .200 | .200 | 2.100 | 0.825 | 2.450 | - | 2.750 | .450 | 2P + 48S + 2P | 1-6450320-2 |
| 2.900 | .250 | .250 | 2.050 | 1.375 | 2.950 | - | 3.250 | .450 | 4P + 24S + 4P | 1-6450320-1 |
| 5.500 | .300 | △9 | 3.175 | 2.525 | 5.550 | - | 5.850 | .475 | 7ACP + 20S + 4ACP + 5P | 1-6450320-0 |
| 2.300 | .250 | .250 | 1.700 | 1.175 | 2.350 | - | 2.650 | .450 | 3P + 16S + 3P | 6450320-9 |
| 2.750 | △9 | .200 | 1.450 | 1.175 | 2.800 | - | 3.100 | .450 | 2P + 1ACP + 8S + 7HDP | 6450320-8 |
| 4.500 | .250 | .250 | 2.900 | 2.125 | 4.550 | - | 4.850 | .450 | 7P + 28S + 7P | 6450320-5 |
| 4.250 | .250 | .250 | 2.650 | 1.875 | 4.300 | - | 4.600 | .450 | 6P + 28S + 7P | 6450320-4 |
| 2.500 | .250 | .300 | 1.800 | 1.125 | 2.550 | - | 2.850 | .450 | 3P + 24S + 3ACP | 6450320-2 |
| 1.900 | .250 | .250 | 1.550 | 0.875 | 1.950 | - | 2.250 | .450 | 2P + 24S + 2P | 6450320-1 |

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

DIMENSIONS: INCHES

TOLERANCES UNLESS OTHERWISE SPECIFIED:
0 PLC ±-
1 PLC ±-
2 PLC ±.01
3 PLC ±.005
4 PLC ±.0020
ANGLES ±2°

MATERIAL - -
FINISH - -

DWN R.GRZYBOWSKI 30MAR05
CHK M.PERCHERKE 30MAR05
APVD M.PERCHERKE -
PRODUCT SPEC 108-1973
APPLICATION SPEC 114-13038
WEIGHT -

Tyco Electronics
Tyco Electronics Corporation
Harrisburg, PA 17105-3608

NAME RIGHT ANGLE HEADER W/GUIDES ASSEMBLY MULTI-BEAM XL -

| SIZE | CAGE CODE | DRAWING NO | RESTRICTED TO |
|---|---|---|---|
| A1 | 00779 | C-6450320 | - |

CUSTOMER DRAWING | SCALE 4:1 | SHEET 2 OF 7 | REV E2

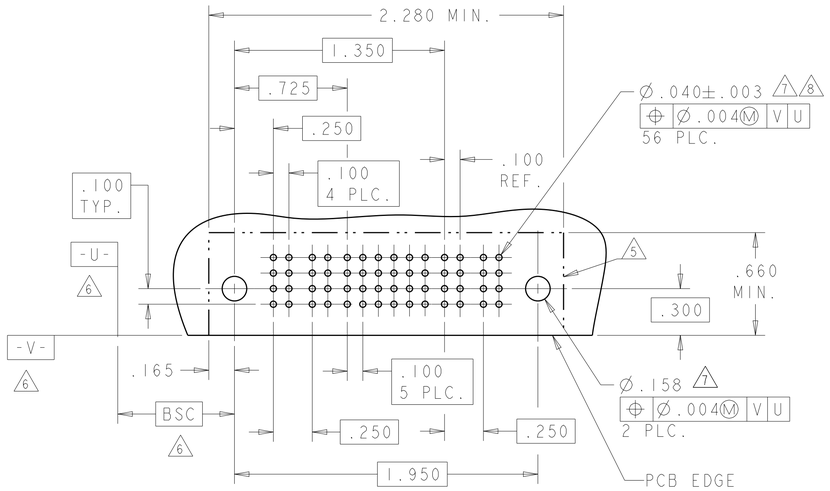
THIS DRAWING IS UNPUBLISHED. RELEASED FOR PUBLICATION 20
© COPYRIGHT 20 BY TYCO ELECTRONICS CORPORATION. ALL RIGHTS RESERVED.

| LOC | DIST |
|---|---|
| GP | 00 |

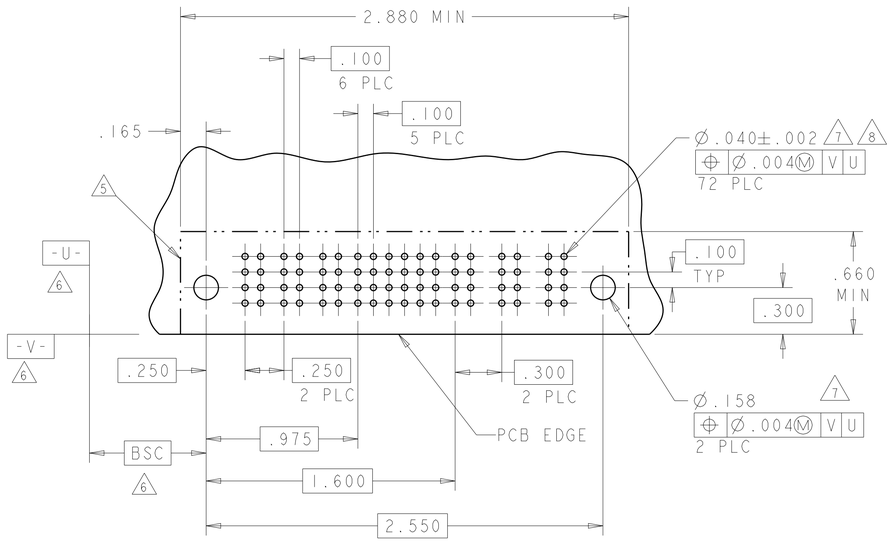
REVISIONS

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

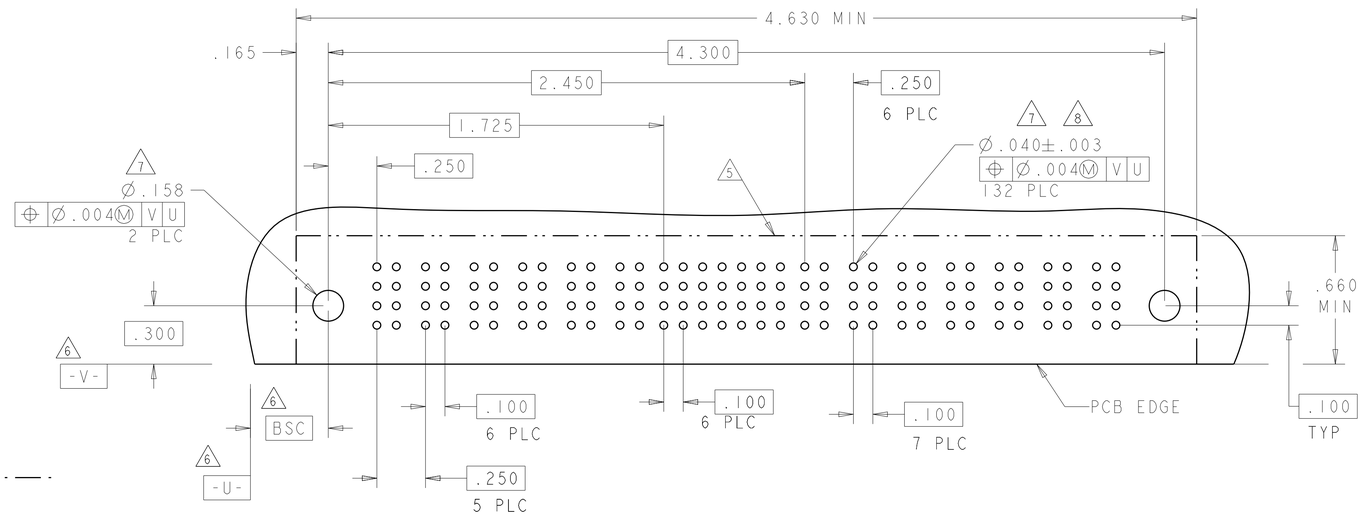
| PART NUMBER | ROWS | POWER P1 | POWER P2 | SIGNAL 1 | SIGNAL 2 | SIGNAL 3 | SIGNAL 4 | SIGNAL 5 | SIGNAL 6 | POWER P3 | POWER P4 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 6450320-1 | D C B A | PM | PM | J K N S | J K N S | J K N S | J K N S | J K N S | J K N S | PM | PM |
| 2P + 24S + 2P | | | | | | | | | | | |




| PART NUMBER | ROWS | POWER P1 | POWER P2 | POWER P3 | SIGNAL 1 | SIGNAL 2 | SIGNAL 3 | SIGNAL 4 | SIGNAL 5 | SIGNAL 6 | POWER P4 | POWER P5 | POWER P6 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 6450320-2 | D C B A | PM | PM | PM | J K N S | J K N S | J K N S | J K N S | J K N S | J K N S | PM | PM | PM |
| 3P + 24S + 3ACP | | | | | | | | | | | | | |




| PART NUMBER | ROWS | POWER P1 | POWER P2 | POWER P3 | POWER P4 | POWER P5 | POWER P6 | SIGNAL 1 | SIGNAL 2 | SIGNAL 3 | SIGNAL 4 | SIGNAL 5 | SIGNAL 6 | POWER P7 | POWER P8 | POWER P9 | POWER P10 | POWER P11 | POWER P12 | POWER P13 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 6450320-4 | D C B A | PM | PM | PM | PM | PM | PM | J K N S | J K N S | J K N S | J K N S | J K N S | J K N S | PM | PM | PM | PM | PM | PM | PM |
| 6P + 28S + 7P | | | | | | | | | | | | | | | | | | | | |




| CODE | MATING SEQUENCE | TAIL LENGTH | ROW |
|---|---|---|---|
| Z | STD | .090 | D |
| Y | STD | .090 | C |
| R | STD | .090 | B |
| O | STD | .090 | A |
| J | STD | .135 | D |
| K | STD | .135 | C |
| N | STD | .135 | B |
| S | STD | .135 | A |

SIGNAL CONTACT

| PA | .090 |
|---|---|
| PM | .135 |
| CODE | TAIL LENGTH |

POWER CONTACT

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

DIMENSIONS: INCHES

TOLERANCES UNLESS OTHERWISE SPECIFIED:
0 PLC ±-
1 PLC ±-
2 PLC ±.01
3 PLC ±.005
4 PLC ±.0020
ANGLES ±2°

MATERIAL -
FINISH -

| | | |
|---|---|---|
| DWN | R.GRZYBOWSKI | 30MAR05 |
| CHK | M.PERCHERKE | 30MAR05 |
| APVD | M.PERCHERKE | - |
| PRODUCT SPEC | 108-1973 | |
| APPLICATION SPEC | 114-13038 | |
| WEIGHT | - | |

Tyco Electronics
Tyco Electronics Corporation
Harrisburg, PA 17105-3608

NAME RIGHT ANGLE HEADER W/GUIDES ASSEMBLY MULTI-BEAM XL
-

| SIZE | CAGE CODE | DRAWING NO | RESTRICTED TO |
|---|---|---|---|
| A1 | 00779 | C-6450320 | - |

CUSTOMER DRAWING | SCALE 4:1 | SHEET 3 OF 7 | REV E2

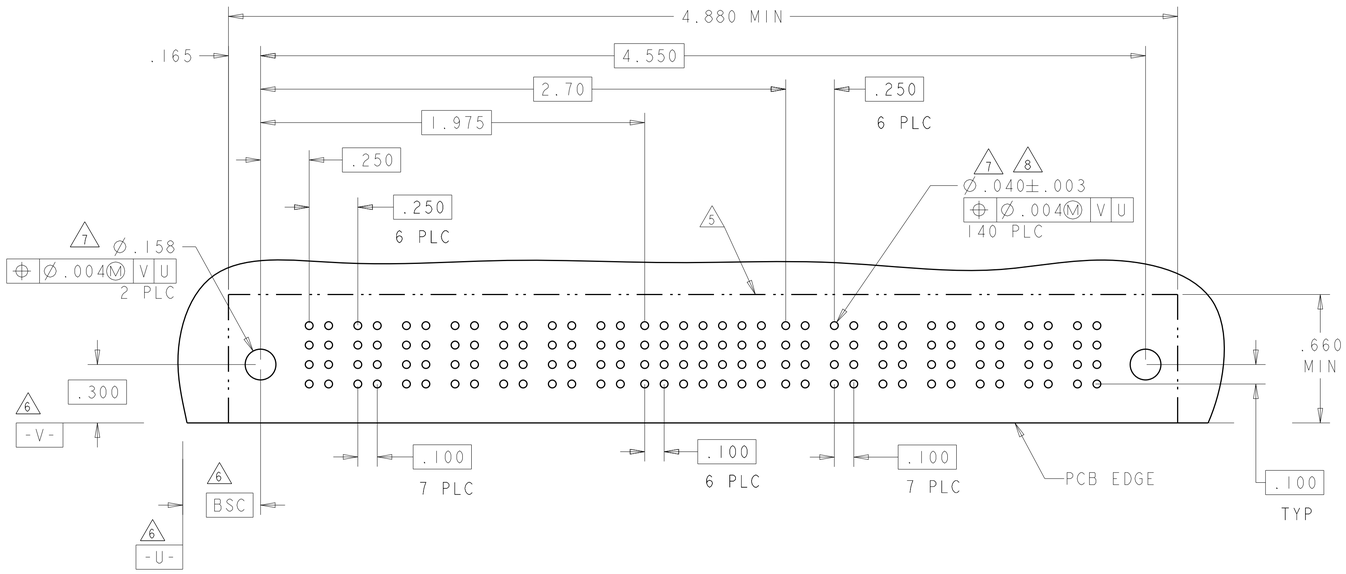
THIS DRAWING IS UNPUBLISHED. RELEASED FOR PUBLICATION 20
© COPYRIGHT 20 BY TYCO ELECTRONICS CORPORATION. ALL RIGHTS RESERVED.

| LOC | DIST |
|---|---|
| GP | 00 |

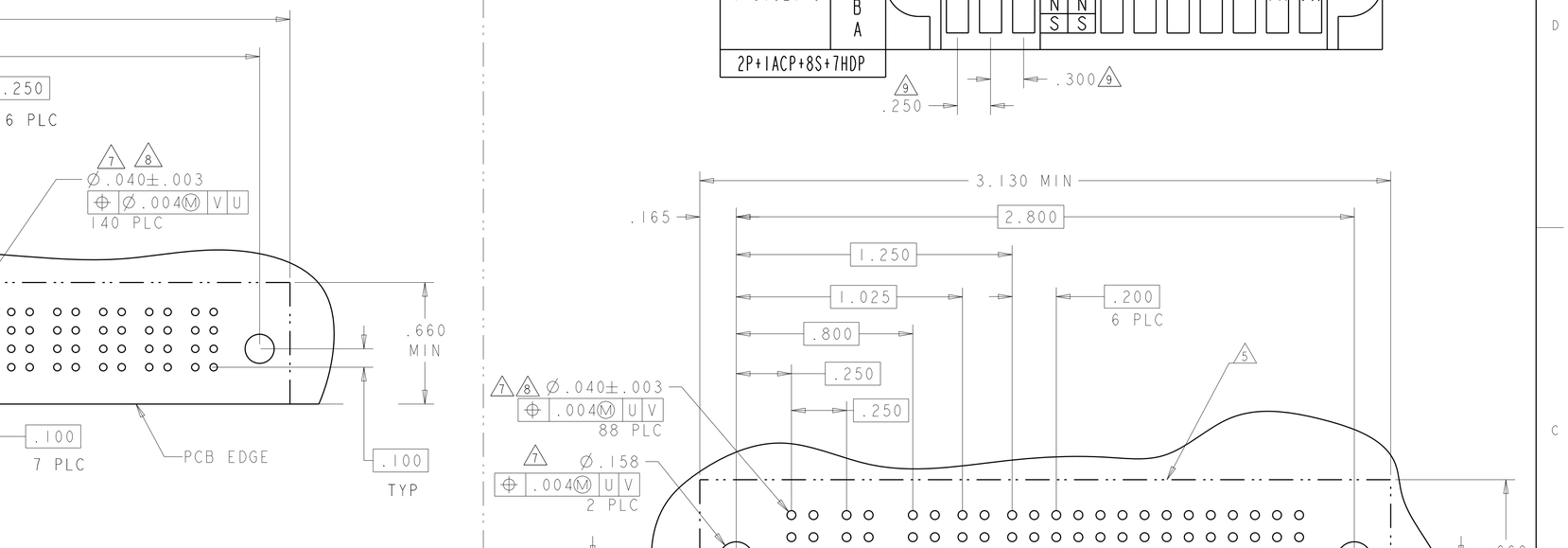
REVISIONS

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

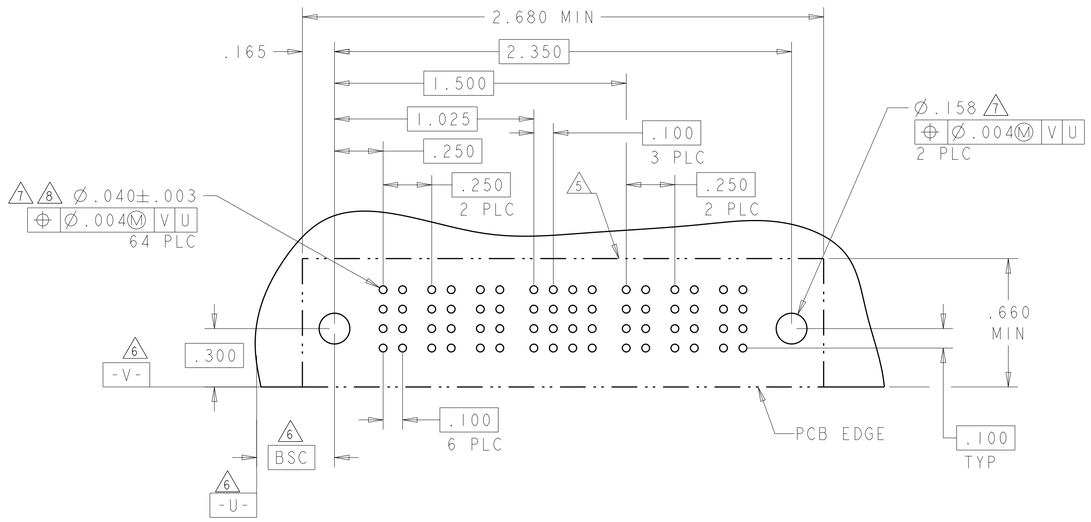
| PART NUMBER | ROWS | POWER | | | | | | | SIGNAL | | | | | | | POWER | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | P1 | P2 | P3 | P4 | P5 | P6 | P7 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | P8 | P9 | P10 | P11 | P12 | P13 | P14 |
| 6450320-5 | D C B A | PM | PM | PM | PM | PM | PM | PM | J K N S | J K N S | J K N S | J K N S | J K N S | J K N S | J K N S | PM | PM | PM | PM | PM | PM | PM |
| 7P + 28S + 7P | | | | | | | | | | | | | | | | | | | | | | | |




| PART NUMBER | ROWS | POWER | | | SIGNAL | | POWER | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | P1 | P2 | P3 | 1 | 2 | P4 | P5 | P6 | P7 | P8 | P9 | P10 | |
| 6450320-8 | D C B A | PM | PM | PM | J K N S | J K N S | PM | PM | PM | PM | PM | PM | PM | |
| 2P+1ACP+8S+7HDP | | | | | | | | | | | | | | |




| PART NUMBER | ROWS | POWER | | | SIGNAL | | | | POWER | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | P1 | P2 | P3 | 1 | 2 | 3 | 4 | P4 | P5 | P6 |
| 6450320-9 | D C B A | PM | PM | PM | J K N S | J K N S | J K N S | J K N S | PM | PM | PM |
| 3P + 16S + 3P | | | | | | | | | | | |




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

DIMENSIONS: INCHES

TOLERANCES UNLESS OTHERWISE SPECIFIED:
0 PLC ±-
1 PLC ±-
2 PLC ±.01
3 PLC ±.005
4 PLC ±.0020
ANGLES ±2°

MATERIAL -
FINISH -

DWN R.GRZYBOWSKI 30MAR05
CHK M.PERCHERKE 30MAR05
APVD M.PERCHERKE -

Tyco Electronics
Tyco Electronics Corporation
Harrisburg, PA 17105-3608

NAME RIGHT ANGLE HEADER W/GUIDES ASSEMBLY MULTI-BEAM XL -

PRODUCT SPEC 108-1973
APPLICATION SPEC 114-13038
WEIGHT -

| SIZE | CAGE CODE | DRAWING NO | RESTRICTED TO |
|---|---|---|---|
| A1 | 00779 | C-6450320 | - |

CUSTOMER DRAWING | SCALE 4:1 | SHEET 4 OF 7 | REV E2

THIS DRAWING IS UNPUBLISHED. RELEASED FOR PUBLICATION 20
© COPYRIGHT 20 BY TYCO ELECTRONICS CORPORATION. ALL RIGHTS RESERVED.

| LOC | DIST |
|---|---|
| GP | 00 |

REVISIONS

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

| PART NUMBER | ROWS |
|---|---|
| 1-6450320-0 | D C B A |
| 7ACP+20S+4ACP+5P | |

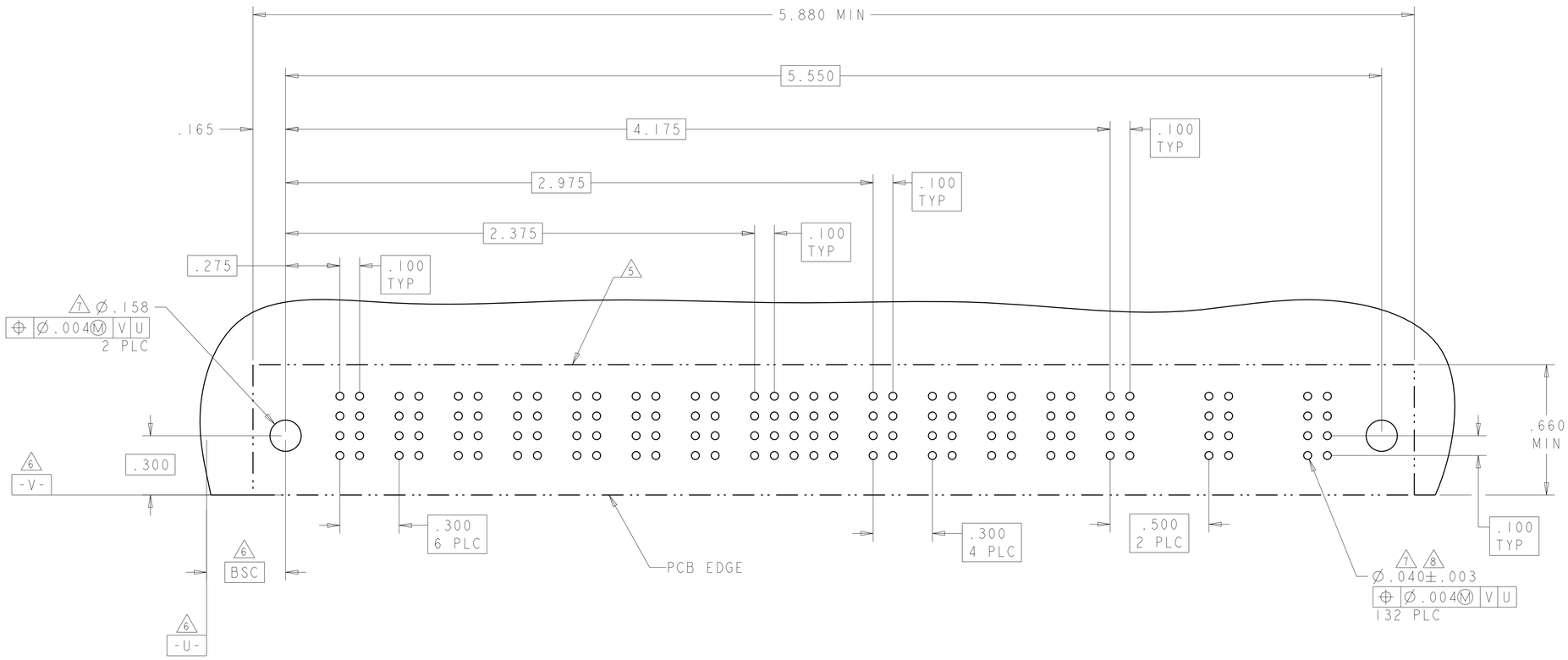
| | POWER | | | | | | | SIGNAL | | | | | POWER | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | P1 | P2 | P3 | P4 | P5 | P6 | P7 | 1 | 2 | 3 | 4 | 5 | P8 | P9 | P10 | P11 | P12 | P13 | P14 | P15 | P16 |
| D | PM | PM | PM | PM | PM | PM | PM | J | J | J | J | J | PM | PM | PM | PM | PM | | PM | | PM |
| C | | | | | | | | K | K | K | K | K | | | | | | | | | |
| B | | | | | | | | N | N | N | N | N | | | | | | | | | |
| A | | | | | | | | S | S | S | S | S | | | | | | | | | |

NO CONTACT LOADED

9 .300 3 PLC

9 .300

.250 4 PLC 9




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

DIMENSIONS: INCHES

TOLERANCES UNLESS OTHERWISE SPECIFIED:
0 PLC ±-
1 PLC ±-
2 PLC ±.01
3 PLC ±.005
4 PLC ±.0020
ANGLES ±2°

MATERIAL - -

FINISH - -

DWN R.GRZYBOWSKI 30MAR05
CHK M.PERCHERKE 30MAR05
APVD M.PERCHERKE -
PRODUCT SPEC 108-1973
APPLICATION SPEC 114-13038
WEIGHT -

Tyco Electronics Corporation
Harrisburg, PA 17105-3608

NAME RIGHT ANGLE HEADER W/GUIDES ASSEMBLY MULTI-BEAM XL -

| SIZE | CAGE CODE | DRAWING NO | RESTRICTED TO |
|---|---|---|---|
| A1 | 00779 | C-6450320 | - |

CUSTOMER DRAWING | SCALE 4:1 | SHEET 5 OF 7 | REV E2

THIS DRAWING IS UNPUBLISHED. RELEASED FOR PUBLICATION 20
© COPYRIGHT 20 BY TYCO ELECTRONICS CORPORATION. ALL RIGHTS RESERVED.

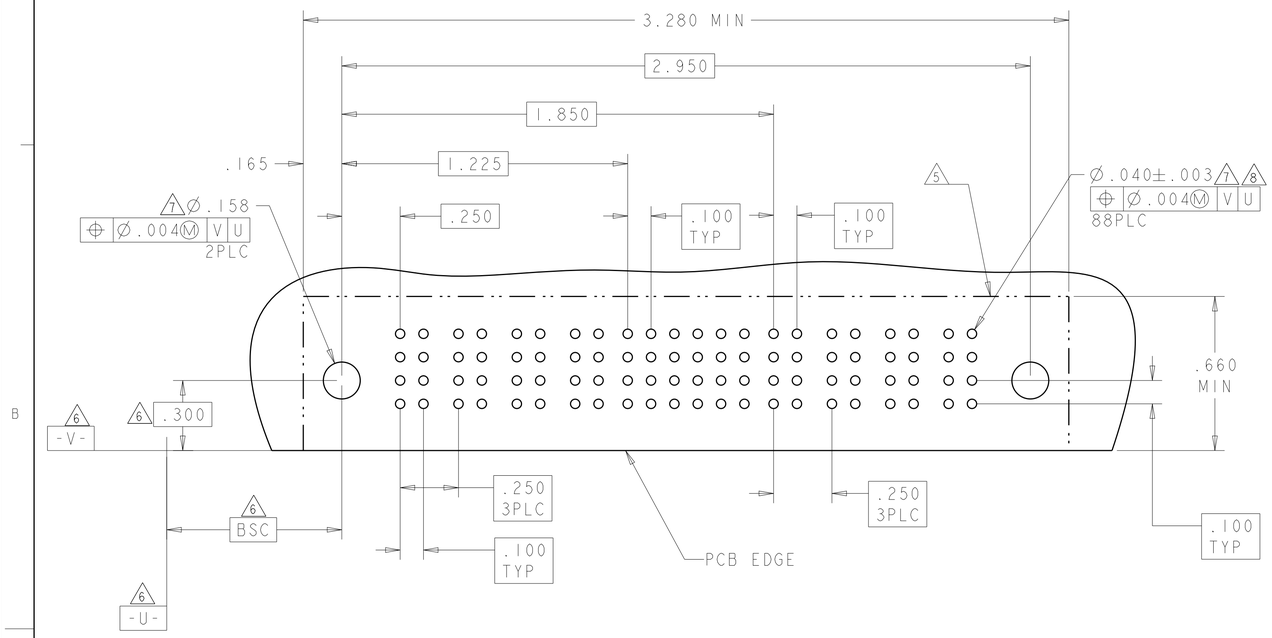
| LOC | DIST |
|---|---|
| GP | 00 |

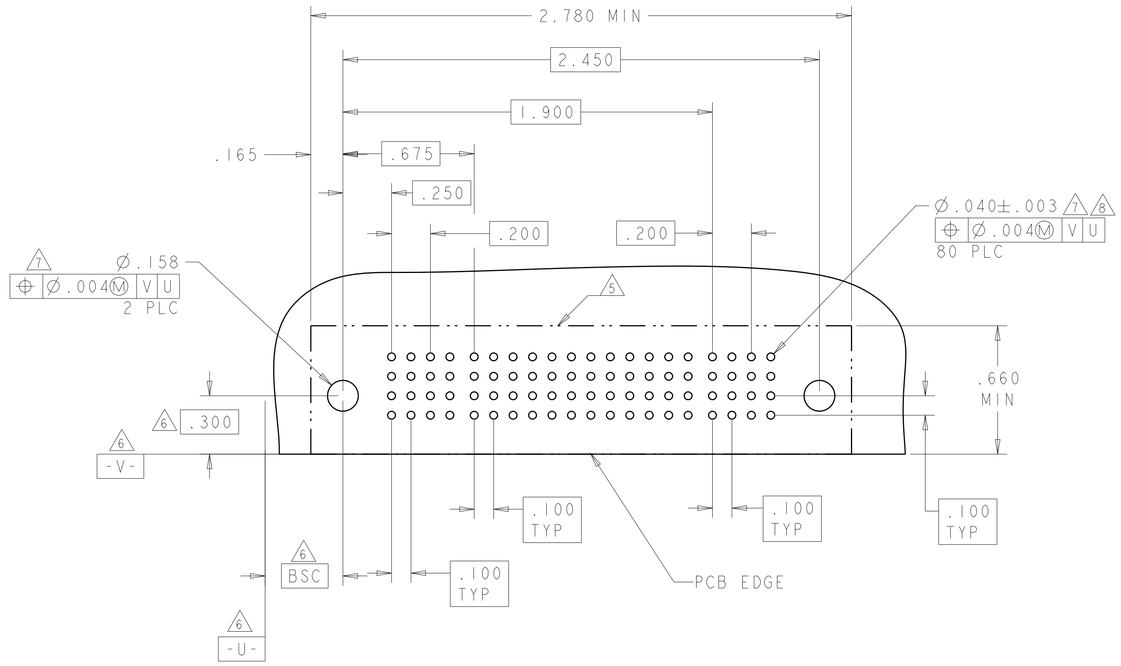
REVISIONS

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

| PART NUMBER | ROWS | | POWER | | | | SIGNAL | | | | | | POWER | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | P1 | P2 | P3 | P4 | 1 | 2 | 3 | 4 | 5 | 6 | P5 | P6 | P7 | P8 | |
| 1-6450320-1 | D | | PM | PM | PM | PM | J | J | J | J | J | J | PM | PM | PM | PM | |
| | C | | | | | | K | K | K | K | K | K | | | | | |
| | B | | | | | | N | N | N | N | N | N | | | | | |
| | A | | | | | | S | S | S | S | S | S | | | | | |
| 4P + 24S + 4P | | | | | | | | | | | | | | | | | |

| PART NUMBER | ROWS | | POWER | | SIGNAL | | | | | | | | | | | POWER | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | P1 | P2 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | P3 | P4 |
| 1-6450320-2 | D | | PM | PM | J | J | J | J | J | J | J | J | J | J | J | J | PM | PM |
| | C | | | | K | K | K | K | K | K | K | K | K | K | K | K | | |
| | B | | | | N | N | N | N | N | N | N | N | N | N | N | N | | |
| | A | | | | S | S | S | S | S | S | S | S | S | S | S | S | | |
| 2P + 48S + 2P | | | | | | | | | | | | | | | | | | |




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

DIMENSIONS: INCHES

TOLERANCES UNLESS OTHERWISE SPECIFIED:
0 PLC ±-
1 PLC ±-
2 PLC ±.01
3 PLC ±.005
4 PLC ±.0020
ANGLES ±2°

MATERIAL - -

FINISH - -

DWN R.GRZYBOWSKI 30MAR05
CHK M.PERCHERKE 30MAR05
APVD M.PERCHERKE -
PRODUCT SPEC 108-1973
APPLICATION SPEC 114-13038
WEIGHT -

Tyco Electronics
Tyco Electronics Corporation
Harrisburg, PA 17105-3608

NAME RIGHT ANGLE HEADER W/GUIDES ASSEMBLY MULTI-BEAM XL -

SIZE A1 | CAGE CODE 00779 | DRAWING NO C-6450320 | RESTRICTED TO -

CUSTOMER DRAWING | SCALE 4:1 | SHEET 6 OF 7 | REV E2

THIS DRAWING IS UNPUBLISHED. RELEASED FOR PUBLICATION 20
© COPYRIGHT 20 BY TYCO ELECTRONICS CORPORATION. ALL RIGHTS RESERVED.

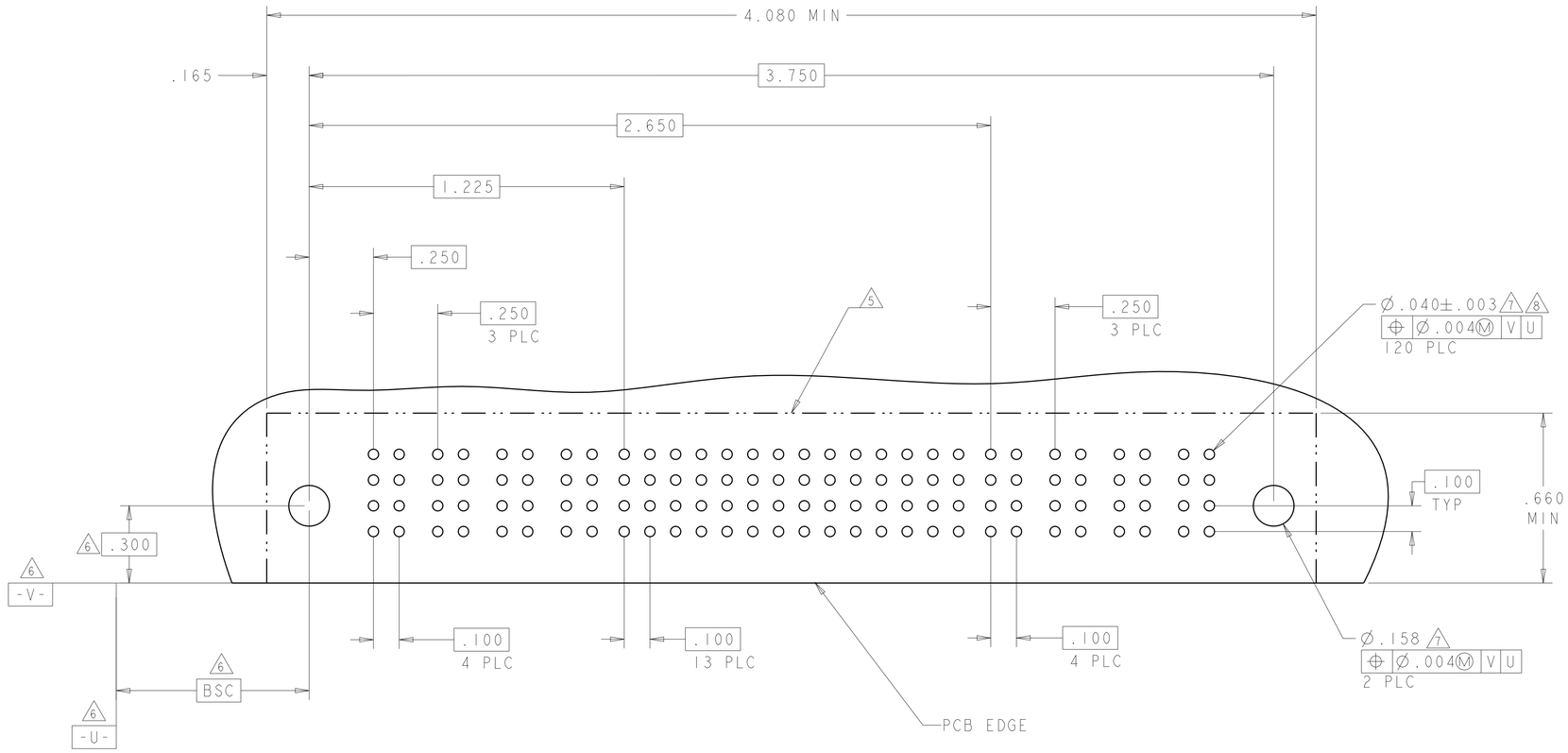
| LOC | DIST |
|---|---|
| GP | 00 |

REVISIONS

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

| PART NUMBER | ROWS | | POWER | | | | SIGNAL | | | | | | | | | | | | | POWER | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | P1 | P2 | P3 | P4 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | P5 | P6 | P7 | P8 |
| 1-6450320-3 | D | | PM | PM | PM | PM | J | J | J | J | J | J | J | J | J | J | J | J | J | J | PM | PM | PM | PM |
| | C | | | | | | K | K | K | K | K | K | K | K | K | K | K | K | K | K | | | | |
| | B | | | | | | N | N | N | N | N | N | N | N | N | N | N | N | N | N | | | | |
| | A | | | | | | S | S | S | S | S | S | S | S | S | S | S | S | S | S | | | | |
| 4P + 56S + 4P | | | | | | | | | | | | | | | | | | | | | | | | |

E1




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: INCHES

TOLERANCES UNLESS OTHERWISE SPECIFIED:
0 PLC ±-
1 PLC ±.
2 PLC ±.01
3 PLC ±.005
4 PLC ±.0020
ANGLES ±2°

MATERIAL -
FINISH -

DWN 30MAR05 R.GRZYBOWSKI
CHK 30MAR05 M.PERCHERKE
APVD - M.PERCHERKE
PRODUCT SPEC 108-1973
APPLICATION SPEC 114-13038
WEIGHT -

Tyco Electronics
Tyco Electronics Corporation
Harrisburg, PA 17105-3608

NAME RIGHT ANGLE HEADER W/GUIDES ASSEMBLY MULTI-BEAM XL -

| SIZE | CAGE CODE | DRAWING NO | RESTRICTED TO |
|---|---|---|---|
| A1 | 00779 | C-6450320 | - |

CUSTOMER DRAWING | SCALE 4:1 | SHEET 7 OF 7 | REV E2

Общество с ограниченной ответственностью «МосЧип» ИНН 7719860671 / КПП 771901001
Адрес: 105318, г.Москва, ул.Щербаковская д.3, офис 1107

**Данный компонент на территории Российской Федерации**

**Вы можете приобрести в компании MosChip.**

Для оперативного оформления запроса Вам необходимо перейти по данной ссылке:

http://moschip.ru/get-element

Вы можете разместить у нас заказ для любого Вашего проекта, будь то серийное производство или разработка единичного прибора.

В нашем ассортименте представлены ведущие мировые производители активных и пассивных электронных компонентов.

Нашей специализацией является поставка электронной компонентной базы двойного назначения, продукции таких производителей как XILINX, Intel (ex.ALTERA), Vicor, Microchip, Texas Instruments, Analog Devices, Mini-Circuits, Amphenol, Glenair.

Сотрудничество с глобальными дистрибьюторами электронных компонентов, предоставляет возможность заказывать и получать с международных складов практически любой перечень компонентов в оптимальные для Вас сроки.

На всех этапах разработки и производства наши партнеры могут получить квалифицированную поддержку опытных инженеров.

Система менеджмента качества компании отвечает требованиям в соответствии с ГОСТ Р ИСО 9001, ГОСТ РВ 0015-002 и ЭС РД 009

**Офис по работе с юридическими лицами:**

105318, г.Москва, ул.Щербаковская д.3, офис 1107, 1118, ДЦ «Щербаковский»

Телефон: +7 495 668-12-70 (многоканальный)

Факс: +7 495 668-12-70 (доб.304)

E-mail: info@moschip.ru

Skype отдела продаж:
moschip.ru
moschip.ru_4
moschip.ru_6
moschip.ru_9