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| REVISIONS    |     |                                             |          |
|--------------|-----|---------------------------------------------|----------|
| EC           | REV | DESCRIPTION                                 | DATE     |
| —            | A   | INITIAL RELEASE                             | 04/15/04 |
| 0S1Q-0096-05 | B   | CHANGED CONNECTOR FROM DEDICATED TO MODULAR | 03/28/05 |

7. MODULE INFORMATION

| CONNECTOR | TYCO PART NUMBER | ELCON PART NUMBER | CATALOG MODULE # | QTY | SIZE NO.              | CONTACT QTY | MATING PIN                   | MAX. CURRENT (PER CONTACT) | CONTACT SPACING | VOLTAGE RATING* |
|-----------|------------------|-------------------|------------------|-----|-----------------------|-------------|------------------------------|----------------------------|-----------------|-----------------|
| SOCKET    | 1766640-1        | 278-1124-00200B   | FP0200           | 12  | 8                     | 12          | 1.25 X 7.00<br>[.049 X .276] | 35 AMPERES                 | 7.50 [.2953]    | 250 VOLTS       |
|           |                  |                   | FP0401           | 1   | 22                    | 24          | .64 [0.025] SQ.              | 3 AMPERES                  | 2.50 [0.0984]   | 125 VOLTS       |
|           |                  |                   | FP0503           | 2   | SYRAIGHT GUIDE PIN    |             |                              |                            |                 |                 |
|           |                  |                   | FP0500           | 1   | LEFT MOUNTING FLANGE  |             |                              |                            |                 |                 |
|           |                  |                   | FP0501           | 1   | RIGHT MOUNTING FLANGE |             |                              |                            |                 |                 |

\*IAW IEC-950

NOTES: UNLESS OTHERWISE SPECIFIED.

1. PART NUMBER CHANGES AND OR DESIGN CHANGES AFFECTING ITEM INTERCHANGEABILITY REQUIRE PRIOR ELCON APPROVAL AND AUTHORIZATION BY REVISION TO THIS DRAWING.
2. MATERIALS:

INSULATORS: THERMOPLASTIC, GLASS REINFORCED, COLOR BLACK. UL94V-0 FLAMMABILITY RATED.

COMPLIANT SIGNAL PIN: PHOSPHOR BRONZE ALLOY.

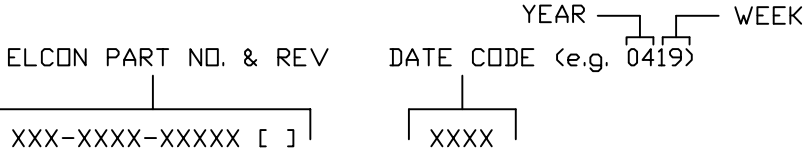
POWER CONTACTS: PHOSPHOR BRONZE ALLOY, COPPER ALLOY.

CROWN BANDS: BERYLLIUM COPPER ALLOY.

GUIDE PIN: BRASS COPPER ALLOY.
3. FINISHES:

CONTACTS: GOLD PLATED PER MIL-G-45204 TYPE II, CLASS 0, .000030" MIN. THK, OVER NICKEL PER QQ-N-290, CLASS 2, .000040" MIN. THK. SOLDER TAILS, TIN/LEAD (90/10) PER ASTM B 545, .000100" MIN. THICK.

GUIDE PIN: NICKEL PLATED PER AMS 2404.
4. MOUNTING FLANGES ACCEPT M3 OR #4-40 SCREWS, (USER SUPPLIED).
5. ITEMS PROVIDED TO THIS SPECIFICATION TO BE PERMANENTLY IDENTIFIED PER THE FOLLOWING IDENTIFIER:

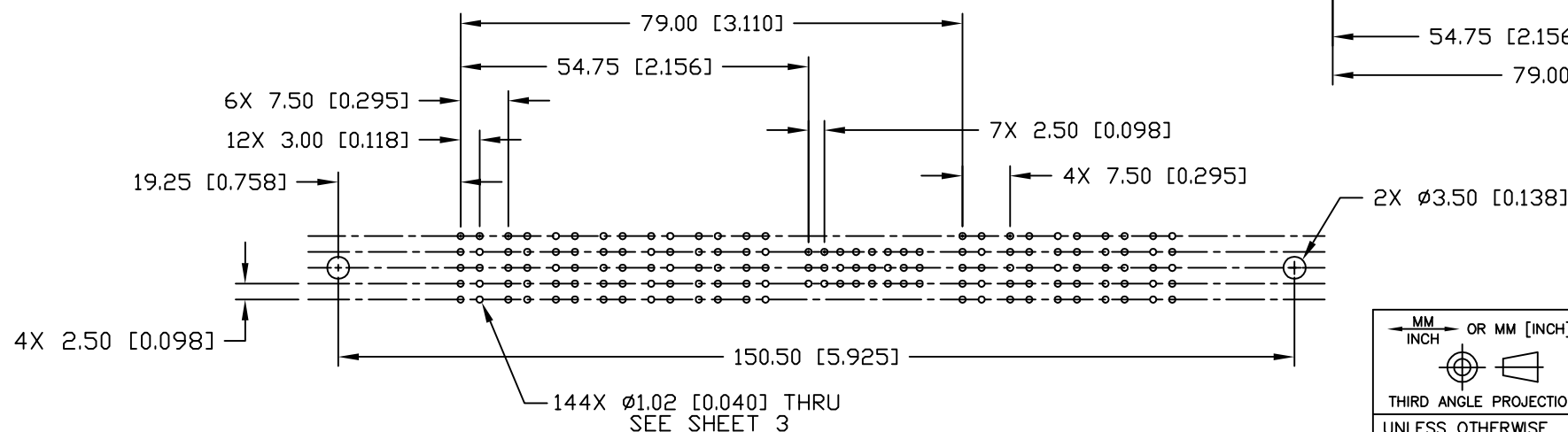
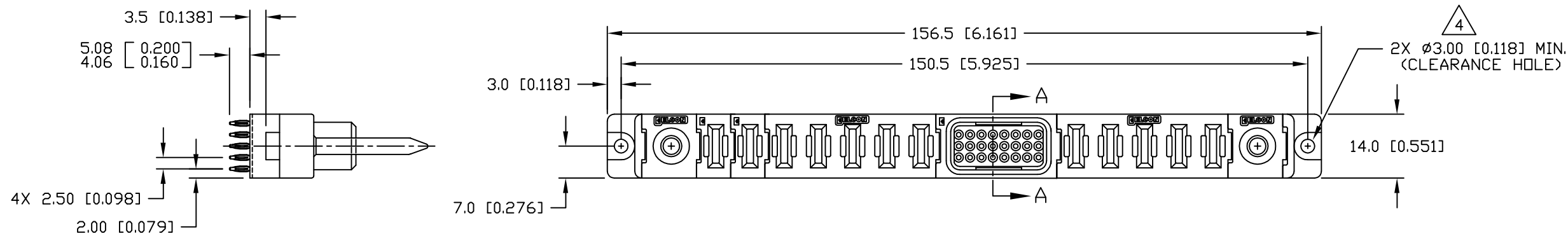


6. THIS CONNECTOR MATES WITH PIN CONNECTOR PN 479-1124-00100.

|                                                                                                                                                                                                                                                                                               |                         |                  |                                                                                                                                                         |                           |           |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------|------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------|-----------|
| <div>← MM OR MM [INCH]<br/>INCH</div> <div></div> <div>THIRD ANGLE PROJECTION</div> <div>UNLESS OTHERWISE<br/>SPECIFIED DIMENSIONS<br/>ARE IN METRIC [INCHES]</div> <div>TOLERANCES</div> <div>ANGLES ± .5°</div> <div>DECIMALS</div> <div>.XX ± .25 [0.010]</div> <div>.X ± .5 [0.020]</div> | DRAWN<br>R. F. A.       | DATE<br>11/05/02 | <div><div><b>tyco</b></div><div><b>Electronics</b></div></div> <div>Tyco Electronics Corporation<br/>Menlo Park, Ca 94025</div> <div><b>ELCON</b></div> |                           |           |
|                                                                                                                                                                                                                                                                                               | CHECKED                 |                  | TITLE<br><br>SOCKET CONNECTOR, FLATPAQ<br>STRAIGHT, COMPLIANT TAILS<br>PN: 278-1124-00200B                                                              |                           |           |
|                                                                                                                                                                                                                                                                                               | APPROVED                |                  |                                                                                                                                                         |                           |           |
|                                                                                                                                                                                                                                                                                               | APPROVED<br>D. CHAU     | 03/30/05         |                                                                                                                                                         |                           |           |
|                                                                                                                                                                                                                                                                                               | DCA APPROVED<br>M. ALIM | 03/31/05         | SIZE<br>B                                                                                                                                               | DWG NUMBER<br>C = 1766640 | REV.<br>B |
| ACAD FILE NUMBER C1766640B.DWG                                                                                                                                                                                                                                                                |                         |                  | DWG SCALE 1=1                                                                                                                                           | SH 1 OF 3                 |           |

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| REVISIONS |     |             |      |
|-----------|-----|-------------|------|
| EC        | REV | DESCRIPTION | DATE |
|           |     | SEE SHEET 1 |      |



PRINTED CIRCUIT LAYOUT

|                                                                                                                                                                                                                                                                                                                     |                   |                                |                                                                                                                                             |             |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|--------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| <div><div><div>MM<br/>INCH</div><div>OR MM [INCH]</div></div><div></div><div>THIRD ANGLE PROJECTION</div><div>UNLESS OTHERWISE<br/>SPECIFIED DIMENSIONS<br/>ARE IN METRIC [INCHES]</div><div>TOLERANCES</div><div>ANGLES ± .5°</div><div>DECIMALS</div><div>.XX ± .25 [0.010]</div><div>.X ± .5 [0.020]</div></div> | DRAWN<br>R. F. A. | DATE<br>11/05/02               | <div><div><div>tyco</div><div>Electronics</div></div><div>Tyco Electronics Corporation<br/>Menlo Park, Ca 94025</div><div>ELCON</div></div> |             |
|                                                                                                                                                                                                                                                                                                                     | CHECKED           |                                | TITLE                                                                                                                                       |             |
|                                                                                                                                                                                                                                                                                                                     | APPROVED          |                                | SOCKET CONNECTOR, FLATPAQ<br>STRAIGHT, COMPLIANT TAILS<br>PN: 278-1124-00200B                                                               |             |
|                                                                                                                                                                                                                                                                                                                     | APPROVED          |                                | SIZE                                                                                                                                        | DWG NUMBER  |
|                                                                                                                                                                                                                                                                                                                     | D. CHAU           | 03/30/05                       | B                                                                                                                                           | C = 1766640 |
| DCA APPROVED                                                                                                                                                                                                                                                                                                        | 03/31/05          |                                | REV.<br>B                                                                                                                                   |             |
| M. ALIM                                                                                                                                                                                                                                                                                                             |                   | ACAD FILE NUMBER C1766640B.DWG |                                                                                                                                             |             |
|                                                                                                                                                                                                                                                                                                                     |                   | DWG SCALE                      | 1=1                                                                                                                                         | SH 2 OF 3   |

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P.C. BOARD  
SURFACE REF

5.08 [ 0.200]  
4.06 [ 0.160]

COMPLIANT PIN DETAIL  
INSERTION/EXTRACTION FORCES  
MAXIMUM PUSH-IN: 133.3N PER PIN  
[30 LBS]  
MINIMUM PUSH-OUT: 44.4N PER PIN  
[10 LBS]

.12 [0.005]

Ø1.09 [0.043]

Ø.94 [0.037]

.04 [0.002]

SOLDER TERMINATION AREA  
RECOMMENDED PRINTED CIRCUIT HOLE

FINISHED HOLE: Ø1.02 [0.040] ±.08 [0.003]  
DRILLED HOLE: Ø1.15 [0.0453] ±.013 [0.0005]  
COPPER PLATE: .025 [0.0010] MINIMUM (PER SURFACE)  
TIN PLATE: .008 [0.0003] MINIMUM (PER SURFACE)

3.56 [ 0.140]  
2.54 [ 0.100]

X.XX [X.XXX]

X.XX [X.XXX]

0.25 [0.010]

5.08 [ 0.200]  
4.06 [ 0.160]

MATED CONDITION

479-1124-00100

278-1124-00200

## REVISIONS

| EC | REV | DESCRIPTION | DATE |
|----|-----|-------------|------|
|    |     | SEE SHEET 1 |      |

|                                                                                                                                                                                                                                                                                            |                     |                  |                                                                                                                         |                           |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|------------------|-------------------------------------------------------------------------------------------------------------------------|---------------------------|
| <div>MM<br/>INCH</div> <div>OR MM [INCH]</div> <div>THIRD ANGLE PROJECTION</div> <div>UNLESS OTHERWISE<br/>SPECIFIED DIMENSIONS<br/>ARE IN METRIC [INCHES]</div> <div>TOLERANCES</div> <div>ANGLES ± .5°</div> <div>DECIMALS</div> <div>.XX ± .25 [0.010]</div> <div>.X ± .5 [0.020]</div> | DRAWN<br>R. F. A.   | DATE<br>11/05/02 | <div><b>tyco</b> Tyco Electronics Corporation<br/><b>Electronics</b> Menlo Park, Ca 94025</div> <div><b>ELCON</b></div> |                           |
|                                                                                                                                                                                                                                                                                            | CHECKED             |                  | TITLE                                                                                                                   |                           |
|                                                                                                                                                                                                                                                                                            | APPROVED            |                  | USER INFORMATION<br>COMPLIANT TAIL TERMINATION<br>AND MATED CONDITION                                                   |                           |
|                                                                                                                                                                                                                                                                                            | APPROVED<br>D. CHAU | 03/30/05         | SIZE<br>B                                                                                                               | DWG NUMBER<br>C = 1766640 |
| ACAD FILE NUMBER<br>C1766640B.DWG                                                                                                                                                                                                                                                          |                     | DWG SCALE<br>1=1 |                                                                                                                         | REV.<br>B                 |
|                                                                                                                                                                                                                                                                                            |                     | SH 3 OF 3        |                                                                                                                         |                           |