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## REVISIONS

| EC  | REV | DESCRIPTION | DATE     |
|-----|-----|-------------|----------|
| CPR | A   | NEW RELEASE | 03/04/06 |

TYPICAL SPECIFICATION TABLE

| POSITION | CONTACT SIZE | RATING     | VOLTAGE RATING |
|----------|--------------|------------|----------------|
| 1 - 3    | #12          | 35 AMPERES | 250 VOLTS      |
| 4 - 19   | #20          | 5 AMPERES  | 250 VOLTS      |
| 20 - 22  | #12          | 35 AMPERES | 250 VOLTS      |

## 6. ITEMS PROVIDED TO THIS SPECIFICATION TO BE PERMANENTLY IDENTIFIED PER THE FOLLOWING IDENTIFIER:

YEAR  WEEK 

TYCO PART NUMBER DATE CODE (e.g. 0625)

XXXXXXX-X

XXXX

## 5. ALL DIMENSIONS SHOWN ACROSS A CENTERLINE (C) SHALL BE CENTRALIZED WITHIN THE TOLERANCE INDICATED FOR THAT DIMENSION.

## 4. A REFERENCE DIMENSION (XXX) IS WITHOUT TOLERANCE AND USED FOR INFORMATION PURPOSE ONLY.

## 3. RECOMMENDED MOUNTING HARDWARE: TO BE ORDERED SEPARATELY.

## - FOR PANEL MOUNTING, USE

1650402-1: SHOULDER SCREW, #8-32

1650106-1: SHOULDER SCREW, #6-32

1650589-1: SHOULDER SCREW, M4X0.7

## - FOR PCB MOUNTING, USE COMMERCIALLY AVAILABLE SCREW AND WASHER (IF REQUIRED).

## 2. MATERIALS:

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

RETENTION CLIP: COPPER ALLOY OR STAINLESS STEEL

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

NOTES: UNLESS OTHERWISE SPECIFIED

1648110-1

AS SHOWN

PART NUMBER

DESCRIPTION

**tyco**  
**Electronics**Tyco Electronics Corporation  
Menlo Park, Ca 94025**ELCON**

TITLE

CONNECTOR, PIN HOUSING  
#12, #20, #12 CONFIGURATION  
MINI DRAWER

SIZE

DWG NUMBER

B

C = 1648110

REV.

A

DRAWN

HA NGUYEN

DATE

03/04/06

CHECKED

APPROVED

APPROVED

STEVE FLICKINGER

03/04/06

DCA APPROVED

HA NGUYEN

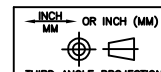
03/04/06

ACAD FILE NUMBER

C1648110A.DWG

DWG SCALE 1=1

SH 1 OF 3

THIRD ANGLE PROJECTION  
UNLESS OTHERWISE  
SPECIFIED DIMENSIONS  
ARE IN INCHES (METRIC)

TOLERANCES

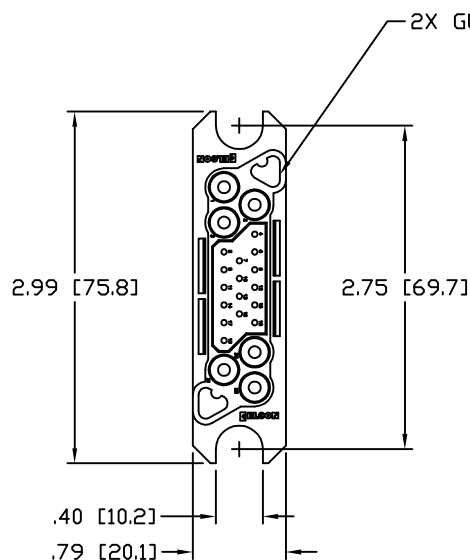
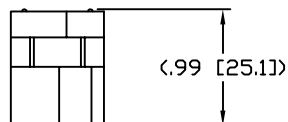
ANGLES ± .5°

DECIMALS

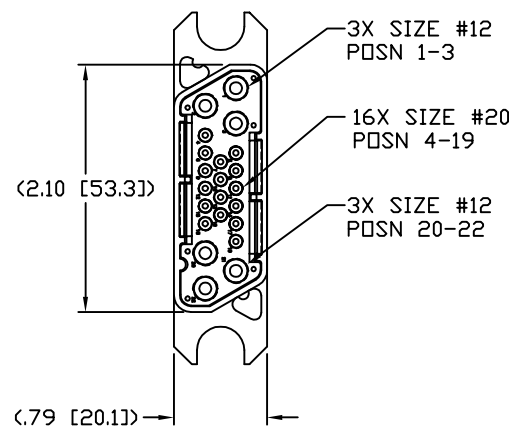
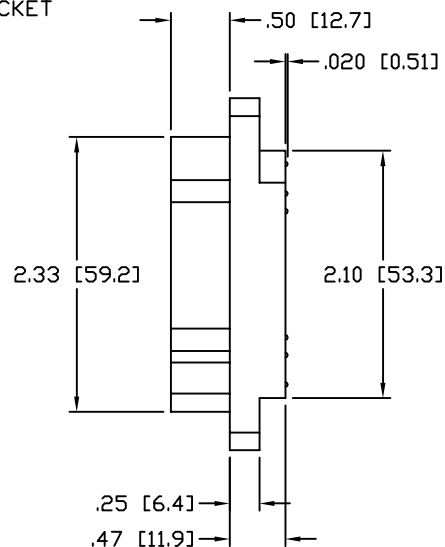
.XXX ± .010 (.25)

.XX ± .02 (.3)

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FRONT VIEW



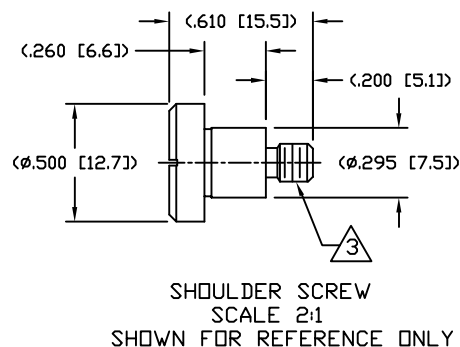
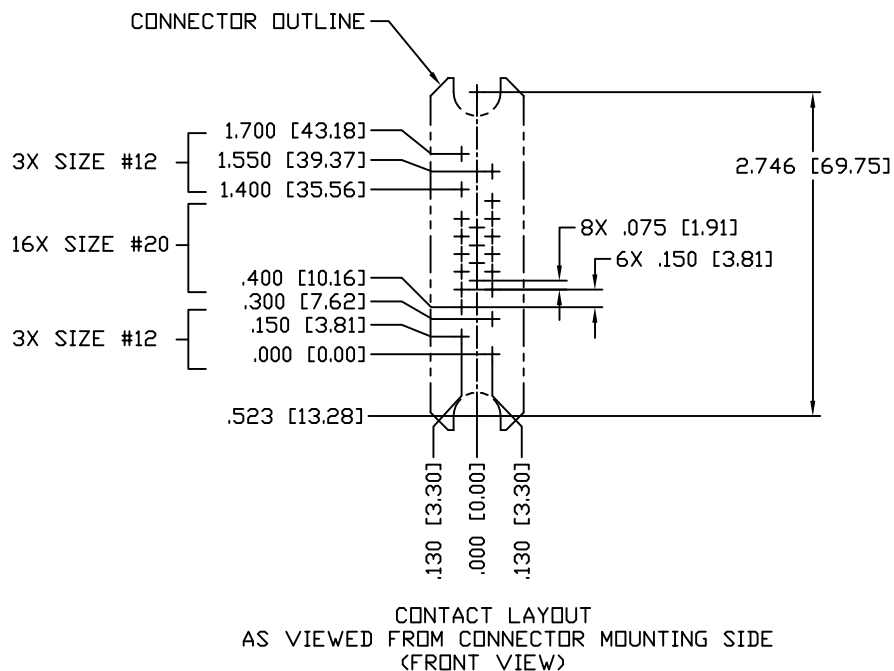
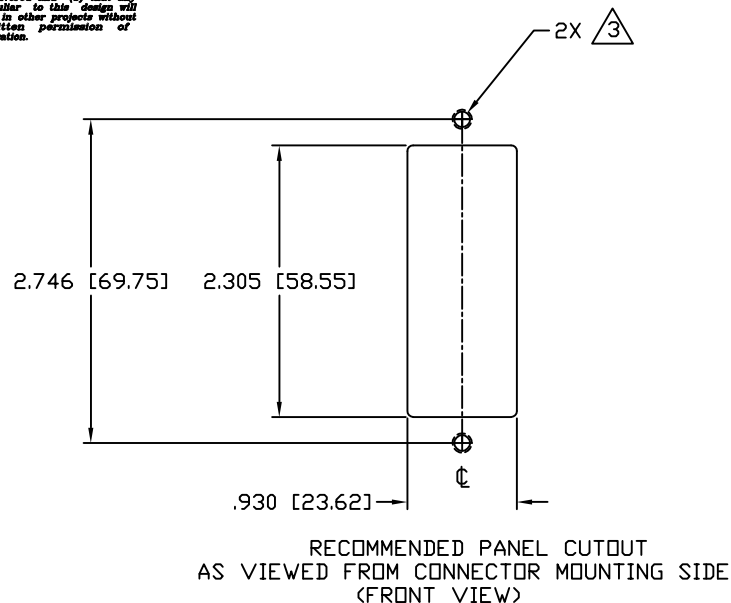
REAR VIEW

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

|                                                                                                                                                                                           |                                |                  |                                                                                                           |                                                                               |           |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------|------------------|-----------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------|-----------|
| INCH<br>MM<br><br>THIRD ANGLE PROJECTION<br>UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES (METRIC)<br>TOLERANCES<br>ANGLES ± .5°<br>DECIMALS<br>.XXX ± .010 (.25)<br>.XX ± .02 (.3) | DRAWN<br>HA NGUYEN             | DATE<br>03/04/06 | <b>tyco</b><br><b>Electronics</b><br>Tyco Electronics Corporation<br>Menlo Park, Ca 94025<br><b>ELCON</b> | TITLE<br>CONNECTOR, PIN HOUSING<br>#12, #20, #12 CONFIGURATION<br>MINI DRAWER |           |
|                                                                                                                                                                                           | CHECKED                        |                  |                                                                                                           |                                                                               |           |
|                                                                                                                                                                                           | APPROVED                       |                  |                                                                                                           |                                                                               |           |
|                                                                                                                                                                                           | APPROVED<br>STEVE FLICKINGER   | 03/04/06         | SIZE<br>B                                                                                                 | DWG NUMBER<br>C = 1648110                                                     | REV.<br>A |
|                                                                                                                                                                                           | ACAD FILE NUMBER C1648110A.DWG |                  | DWG SCALE 1=1                                                                                             |                                                                               | SH 2 OF 3 |

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|-----------|-----|-------------|------|
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|           |     | SEE SHEET 1 |      |



|                                                                                                                                                                                       |                                                                                             |                      |                                                                                                  |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|----------------------|--------------------------------------------------------------------------------------------------|
| INCH<br>MM<br>THIRD ANGLE PROJECTION<br>UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES (METRIC)<br>TOLERANCES<br>ANGLES ± .5°<br>DECIMALS<br>.XXX ± .010 (.25)<br>.XX ± .02 (.3) | DRAWN<br>HA NGUYEN                                                                          | DATE<br>03/04/06     | <b>tyco</b> Tyco Electronics Corporation<br><b>Electronics</b> Menlo Park, Ca 94025 <b>ELCON</b> |
|                                                                                                                                                                                       | CHECKED                                                                                     |                      | TITLE                                                                                            |
|                                                                                                                                                                                       | APPROVED                                                                                    |                      | USER INFORMATION                                                                                 |
|                                                                                                                                                                                       | APPROVED<br>STEVE FLICKINGER<br>DCA APPROVED<br>HA NGUYEN<br>ACAD FILE NUMBER C1648110A.DWG | 03/04/06<br>03/04/06 | RECOMMENDED PANEL CUTOUT<br>AND CONTACT LAYOUT<br>SIZE DWG NUMBER<br>B C = 1648110<br>REV.<br>A  |

DWG SCALE 1=1 SH 3 OF 3