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**Part Number:** [0905841318](#)  
**Status:** **Active**  
**Description:** 1.27mm (.050") Pitch Picoflex® PF-50 IDT Receptacle, Low Profile, Board-In, 18 Circuits

**Documents:**

[3D Model](#)  
[Drawing \(PDF\)](#)  
[Product Specification ES-99033-0002 \(PDF\)](#)  
[Product Specification PS-99020-0011 \(PDF\)](#)  
[RoHS Certificate of Compliance \(PDF\)](#)

**General**

|                     |                                     |
|---------------------|-------------------------------------|
| Product Family      | Ribbon Cable / Wire Trap Connectors |
| Series              | <a href="#">90584</a>               |
| Comments            | Low Profile                         |
| Component Type      | One Piece                           |
| Glow-Wire Compliant | No                                  |
| MolexKits           | Yes                                 |
| Product Name        | Board-In, Picoflex®                 |

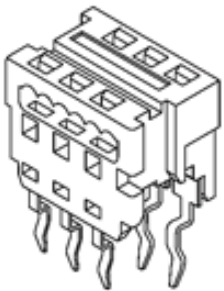
**Physical**

|                                |                           |
|--------------------------------|---------------------------|
| Circuits (Loaded)              | 18                        |
| Color - Resin                  | Natural                   |
| Durability (mating cycles max) | 30                        |
| Entry Angle                    | 90° Angle                 |
| Lock to Mating Part            | None                      |
| Material - Metal               | Phosphor Bronze           |
| Material - Plating Mating      | Tin                       |
| Material - Plating Termination | Tin                       |
| Material - Resin               | Polyester                 |
| Number of Rows                 | 2                         |
| PCB Locator                    | No                        |
| PCB Retention                  | Yes                       |
| PCB Thickness Recommended (in) | 0.062 In                  |
| PCB Thickness Recommended (mm) | 1.60 mm                   |
| Packaging Type                 | Tube                      |
| Pitch - Mating Interface (in)  | 0.050 In                  |
| Pitch - Mating Interface (mm)  | 1.27 mm                   |
| Plating min: Mating (µin)      | 80.00                     |
| Plating min: Mating (µm)       | 2.00                      |
| Plating min: Termination (µin) | 80.00                     |
| Plating min: Termination (µm)  | 2.00                      |
| Polarized to Mating Part       | N/A                       |
| Polarized to PCB               | Yes                       |
| Stackable                      | No                        |
| Surface Mount Compatible (SMC) | No                        |
| Temperature Range - Operating  | -40°C to +105°C           |
| Termination Interface: Style   | Through Hole - Kinked Pin |
| Wire Insulation Diameter       | 1.00mm (.039") max.       |
| Wire Size AWG                  | 26, 28                    |
| Wire/Cable Type                | Ribbon Cable              |

**Electrical**

|                               |      |
|-------------------------------|------|
| Current - Maximum per Contact | 1.2A |
| Voltage - Maximum             | 250V |

**Solder Process Data**



Series

image - Reference only

**EU RoHS**

**ELV and RoHS  
Compliant**  
**REACH SVHC  
Contains SVHC: No**  
**Halogen-Free  
Status**

**China RoHS**



**Not Reviewed**

**Need more information on product  
environmental compliance?**

Email [productcompliance@molex.com](mailto:productcompliance@molex.com)  
For a multiple part number RoHS Certificate of  
Compliance, [click here](#)

Please visit the [Contact Us](#) section for any  
non-product compliance questions.

**Search Parts in this Series**

[90584Series](#)

**Mates With**

N/A

**Application Tooling | FAQ**

*Tooling specifications and manuals are  
found by selecting the products below.  
Crimp Height Specifications are then  
contained in the Application Tooling  
Specification document.*

**Global**

| Description                                                         | Product #                  |
|---------------------------------------------------------------------|----------------------------|
| Arbor Press Fixture                                                 | <a href="#">0690201902</a> |
| Semi-Automatic                                                      | <a href="#">0691271010</a> |
| Bench Press PB16<br>with Auto De-<br>tubing for 90854<br>Connectors |                            |
| Handtool for<br>90327, 90584 and<br>91577 Picoflex®                 | <a href="#">0690081090</a> |

Lead-free Process Capability

Wave Capable (TH only)

Connectors, 4-26  
Circuit  
Arbor Press Fixture 0690201908  
for 91577 Picoflex®  
Connectors

**Material Info**

**Reference - Drawing Numbers**

Product Specification  
Sales Drawing

ES-99033-0002, PS-99020-0011  
SDA-90584

This document was generated on 06/08/2010

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| 10          | 9           | 8             | 7             | 6             | 5           | 4            | 3                  | 2 | 1 |
|-------------|-------------|---------------|---------------|---------------|-------------|--------------|--------------------|---|---|
| 90584 -**26 | 26          | (35.53)/1.399 | (31.75)/1.250 | (30.48)/1.200 | 14          | 98           | 7                  |   |   |
| ↑ -**24     | 24          | (32.99)/1.299 | (29.21)/1.150 | (27.94)/1.100 | 15          | 105          | ↑                  |   |   |
| -**22       | 22          | (30.45)/1.199 | (26.67)/1.050 | (25.40)/1.000 | 16          | 112          |                    |   |   |
| -**20       | 20          | (27.91)/1.099 | (24.13)/.950  | (22.86)/.900  | 18          | 126          |                    |   |   |
| -**18       | 18          | (25.37)/.999  | (21.59)/.850  | (20.32)/.800  | 20          | 140          |                    |   |   |
| -**16       | 16          | (22.83)/.899  | (19.05)/.750  | (17.78)/.700  | 23          | 161          |                    |   |   |
| -**14       | 14          | (20.29)/.799  | (16.51)/.650  | (15.24)/.600  | 26          | 182          |                    |   |   |
| -**12       | 12          | (17.75)/.699  | (13.97)/.550  | (12.70)/.500  | 30          | 210          |                    |   |   |
| -**10       | 10          | (15.21)/.599  | (11.43)/.450  | (10.16)/.400  | 34          | 238          |                    |   |   |
| -**08       | 8           | (12.67)/.499  | (8.89)/.350   | (7.62)/.300   | 42          | 294          |                    |   |   |
| ↓ -**06     | 6           | (10.13)/.399  | (6.35)/.250   | (5.08)/.200   | 54          | 378          | ↓                  |   |   |
| 90584 -**04 | 4           | (7.59)/.299   | (3.81)/.150   | (2.54)/.100   | 70          | 490          | 7                  |   |   |
| PART NO.    | CCT<br>SIZE | DIMENSION A   | DIMENSION B   | DIMENSION C   | TUBE<br>QTY | STACK<br>QTY | TUBES<br>PER STACK |   |   |

## HOUSING

MATL. POLYESTER, RATED UL 94V-0, COLOUR WHITE.

## IDT CONTACT

MATL : PHOSPHOR BRONZE (0.28)/0.11 REF THICK.

PLATING : (2-4um) / 80-160u" TIN

## NOTES:

1. APPL. CLASS TO DIN 40040 HME (-25°C/+100°C)
2. SEE PRODUCT SPECIFICATION PS-99020-0011
3. WIRE TERMINATION SPEC : ES-99033-0002

90584- \* \* \* \*

04 TO 26 = CKT SIZE.

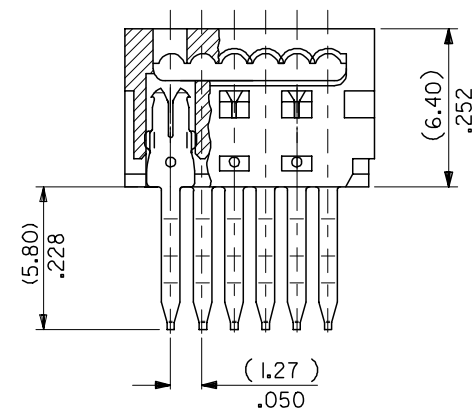
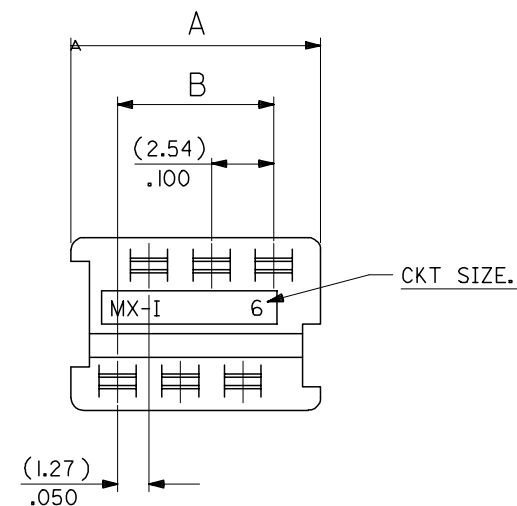
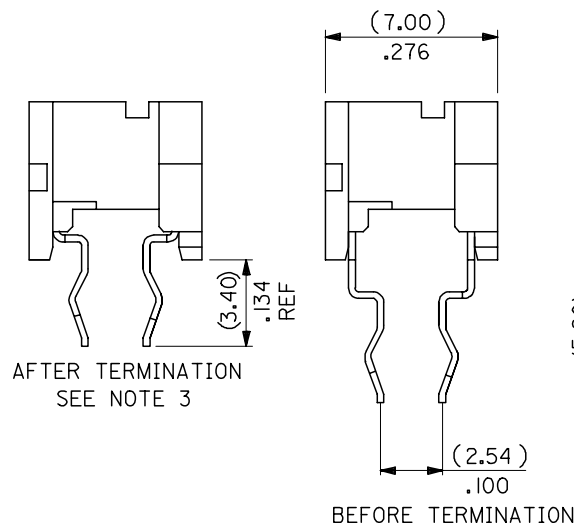
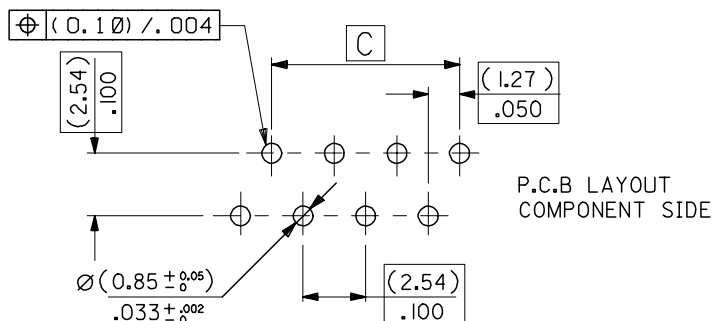
3= NO CIRCUITS VOIDED.

4= CIRCUITS 4 & 5 VOIDED.

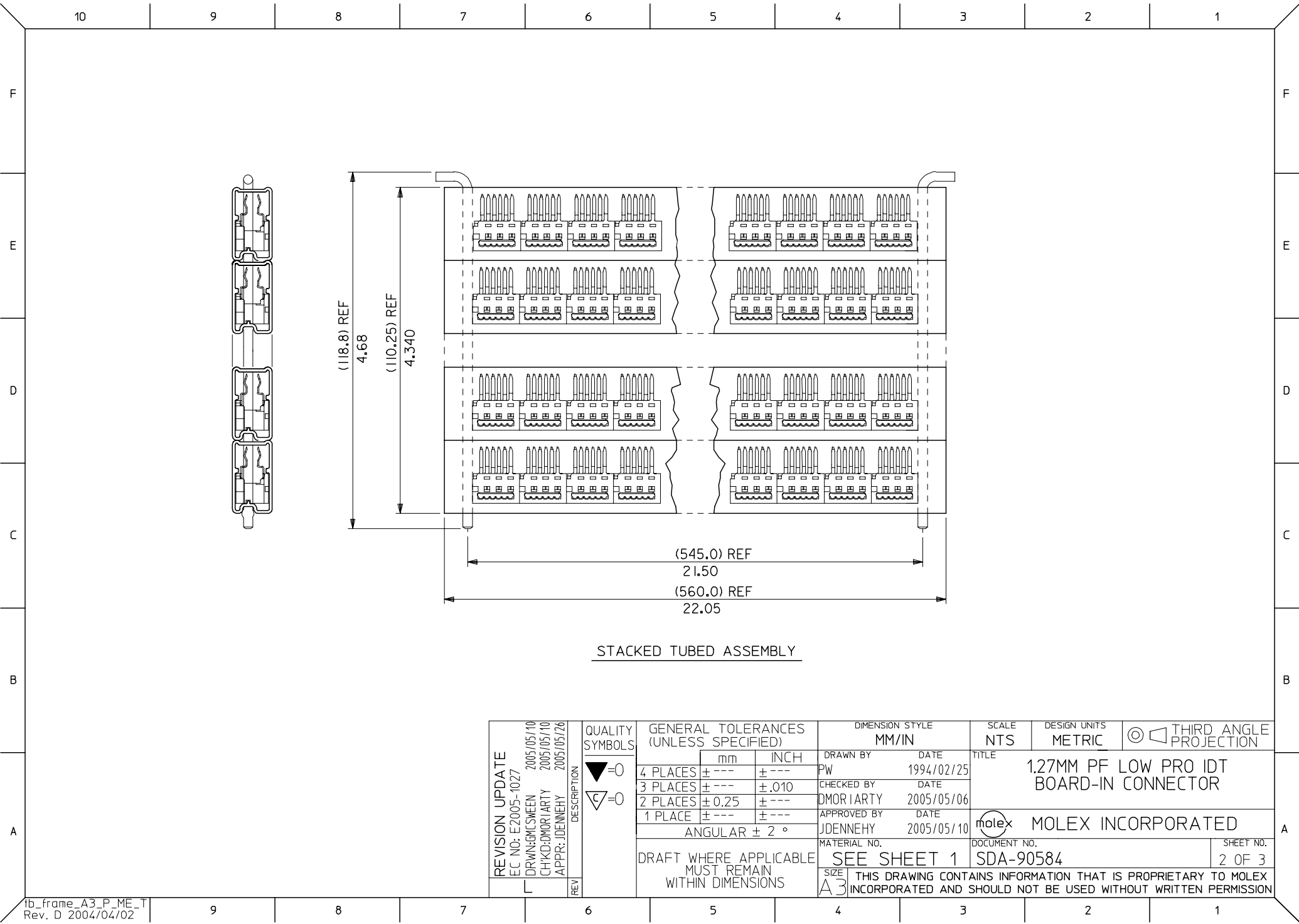
1= INDIVIDUAL TUBED ASSY

2= STACKED TUBED ASSY - SEE SHEET 2

9= NON STANDARD OPTION - SEE SHEET 3



|                                                                                                                                   |             |                                                                                                                               |                                       |  |                                                      |                    |                                                   |                        |                                                     |  |                           |                     |
|-----------------------------------------------------------------------------------------------------------------------------------|-------------|-------------------------------------------------------------------------------------------------------------------------------|---------------------------------------|--|------------------------------------------------------|--------------------|---------------------------------------------------|------------------------|-----------------------------------------------------|--|---------------------------|---------------------|
| ADD VOIDED OPTION<br>EC NO: E2005-1027<br>DRAWN: GMSWEN 2005/05/10<br>CHKD: JMR/LARTY 2005/05/10<br>APPR: DENNEHY 2005/05/26<br>M | DESCRIPTION | QUALITY SYMBOLS<br><div>▽=0</div> <div>▽=0</div>                                                                              | GENERAL TOLERANCES (UNLESS SPECIFIED) |  | DIMENSION STYLE<br>MM/IN                             |                    | SCALE<br>5:1                                      | DESIGN UNITS<br>METRIC | THIRD ANGLE PROJECTION<br><div>⊙</div> <div>◻</div> |  |                           |                     |
|                                                                                                                                   |             |                                                                                                                               |                                       |  | DRAWN BY<br>DMCNAMAR                                 | DATE<br>2003/09/01 | TITLE<br>1.27MM PF LOW PRO IDT BOARD-IN CONNECTOR |                        |                                                     |  |                           |                     |
|                                                                                                                                   |             |                                                                                                                               |                                       |  | CHECKED BY<br>BMAGUIRE                               | DATE<br>2003/09/01 |                                                   |                        |                                                     |  |                           |                     |
|                                                                                                                                   |             |                                                                                                                               |                                       |  | APPROVED BY<br>MWILHITE                              | DATE<br>2003/09/01 | MOLEX<br>MOLEX INCORPORATED                       |                        |                                                     |  |                           |                     |
|                                                                                                                                   |             |                                                                                                                               |                                       |  | MATERIAL NO.                                         |                    |                                                   |                        |                                                     |  | DOCUMENT NO.<br>SDA-90584 | SHEET NO.<br>1 OF 3 |
|                                                                                                                                   |             |                                                                                                                               |                                       |  | DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS |                    | SEE CHART                                         |                        |                                                     |  |                           |                     |
|                                                                                                                                   |             |                                                                                                                               |                                       |  |                                                      |                    |                                                   |                        |                                                     |  |                           |                     |
|                                                                                                                                   |             |                                                                                                                               |                                       |  |                                                      |                    |                                                   |                        |                                                     |  |                           |                     |
|                                                                                                                                   |             |                                                                                                                               |                                       |  |                                                      |                    |                                                   |                        |                                                     |  |                           |                     |
|                                                                                                                                   |             |                                                                                                                               |                                       |  |                                                      |                    |                                                   |                        |                                                     |  |                           |                     |
|                                                                                                                                   | REV         | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION |                                       |  |                                                      |                    |                                                   |                        |                                                     |  |                           |                     |



STACKED TUBED ASSEMBLY

|                                                                                                                                      |                    |                                   |                                       |        |                          |                                                                                                                               |                           |                                                   |                           |  |  |  |                     |
|--------------------------------------------------------------------------------------------------------------------------------------|--------------------|-----------------------------------|---------------------------------------|--------|--------------------------|-------------------------------------------------------------------------------------------------------------------------------|---------------------------|---------------------------------------------------|---------------------------|--|--|--|---------------------|
| REVISION UPDATE<br>EC NO: E2005-1027<br>2005/05/10<br>DRWN:GMC/SWEEN<br>CHKD:DMORIARTY<br>2005/05/10<br>APPR: JDENNEHY<br>2005/05/26 | DESCRIPTION<br>REV | QUALITY SYMBOLS<br><br>▽=0<br>▽=0 | GENERAL TOLERANCES (UNLESS SPECIFIED) |        | DIMENSION STYLE<br>MM/IN |                                                                                                                               | SCALE<br>NTS              | DESIGN UNITS<br>METRIC                            | THIRD ANGLE<br>PROJECTION |  |  |  |                     |
|                                                                                                                                      |                    |                                   |                                       | mm     | INCH                     | DRAWN BY<br>PW                                                                                                                | DATE<br>1994/02/25        | TITLE<br>1.27MM PF LOW PRO IDT BOARD-IN CONNECTOR |                           |  |  |  |                     |
|                                                                                                                                      |                    |                                   | 4 PLACES                              | ± ---  | ± ---                    | CHECKED BY<br>DMORIARTY                                                                                                       | DATE<br>2005/05/06        |                                                   |                           |  |  |  |                     |
|                                                                                                                                      |                    |                                   | 3 PLACES                              | ± ---  | ± .010                   | APPROVED BY<br>JDENNEHY                                                                                                       | DATE<br>2005/05/10        | MOLEX INCORPORATED                                |                           |  |  |  |                     |
|                                                                                                                                      |                    |                                   | 2 PLACES                              | ± 0.25 | ± ---                    | MATERIAL NO.<br>SEE SHEET 1                                                                                                   | DOCUMENT NO.<br>SDA-90584 |                                                   |                           |  |  |  | SHEET NO.<br>2 OF 3 |
|                                                                                                                                      |                    |                                   | 1 PLACE                               | ± ---  | ± ---                    | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION |                           |                                                   |                           |  |  |  |                     |
|                                                                                                                                      |                    |                                   | ANGULAR ± 2 °                         |        |                          |                                                                                                                               |                           |                                                   |                           |  |  |  |                     |
| DRAFT WHERE APPLICABLE<br>MUST REMAIN WITHIN DIMENSIONS                                                                              |                    |                                   |                                       |        |                          |                                                                                                                               |                           |                                                   |                           |  |  |  |                     |