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Part Number:

0755860010

Status:

Active

Overview:

ipass

Description:

0.80mm (.031") Pitch, iPass™ I/O SMT Receptacle, Right Angle, External Application, 38 Circuit, 0.38µm (15µ") Gold (Au)

|                               |                                                          |
|-------------------------------|----------------------------------------------------------|
| Documents:                    |                                                          |
| <a href="#">3D Model</a>      | <a href="#">Product Specification PS-75586-001 (PDF)</a> |
| <a href="#">Drawing (PDF)</a> | <a href="#">RoHS Certificate of Compliance (PDF)</a>     |

Agency Certification

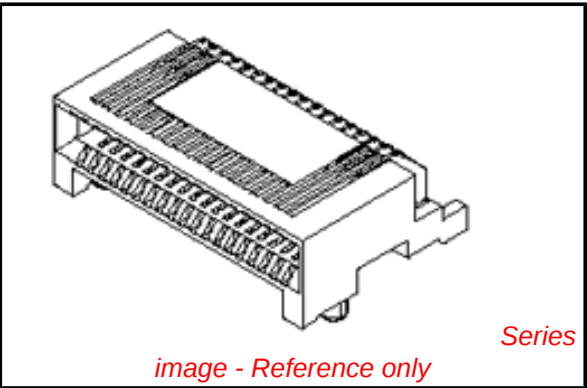
|     |         |
|-----|---------|
| CSA | LR19980 |
|-----|---------|

General

|                |                           |
|----------------|---------------------------|
| Product Family | I/O Connectors            |
| Series         | 75586                     |
| Application    | Wire-to-Board             |
| Component Type | Receptacle                |
| Overview       | ipass                     |
| Product Name   | iPass™, PCI Express*, SAS |
| Type           | N/A                       |

Physical

|                                |                                |
|--------------------------------|--------------------------------|
| Boot Color                     | N/A                            |
| Circuits (Loaded)              | 38                             |
| Circuits (maximum)             | 38                             |
| Color - Resin                  | Black                          |
| Durability (mating cycles max) | 50                             |
| Flammability                   | 94V-0                          |
| Gender                         | Female                         |
| Keying to Mating Part          | None                           |
| Lock to Mating Part            | None                           |
| Material - Metal               | High Performance Alloy (HPA)   |
| Material - Plating Mating      | Gold                           |
| Material - Plating Termination | Tin                            |
| Material - Resin               | High Temperature Thermoplastic |
| Number of Rows                 | 2                              |
| Orientation                    | Right Angle                    |
| PCB Locator                    | Yes                            |
| PCB Retention                  | None                           |
| PCB Thickness Recommended (in) | 0.053 In                       |
| PCB Thickness Recommended (mm) | 1.35 mm                        |
| Packaging Type                 | Embossed Tape on Reel          |
| Panel Mount                    | No                             |
| Pitch - Mating Interface (in)  | 0.031 In                       |
| Pitch - Mating Interface (mm)  | 0.80 mm                        |
| Pitch - Term. Interface (in)   | 0.031 In                       |
| Pitch - Term. Interface (mm)   | 0.80 mm                        |
| Plating min: Mating (µin)      | 15.2                           |
| Plating min: Mating (µm)       | 0.38                           |
| Plating min: Termination (µin) | 101.6                          |
| Plating min: Termination (µm)  | 2.54                           |
| Polarized to Mating Part       | Yes                            |
| Polarized to PCB               | Yes                            |
| Ports                          | 1                              |
| Surface Mount Compatible (SMC) | Yes                            |



EU RoHS

ELV and RoHS

Compliant

REACH SVHC

Contains SVHC: No

Halogen-Free

Status

Halogen-Free

China RoHS



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

75586Series

Mates With

74547 iPass™ Cable Assembly

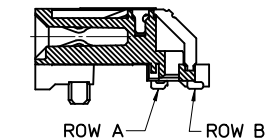
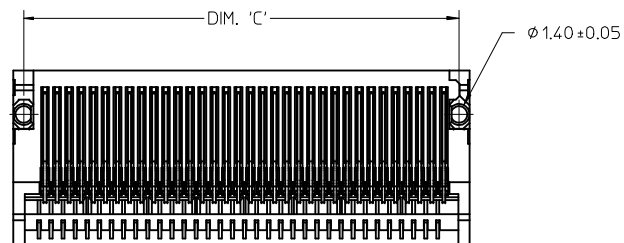
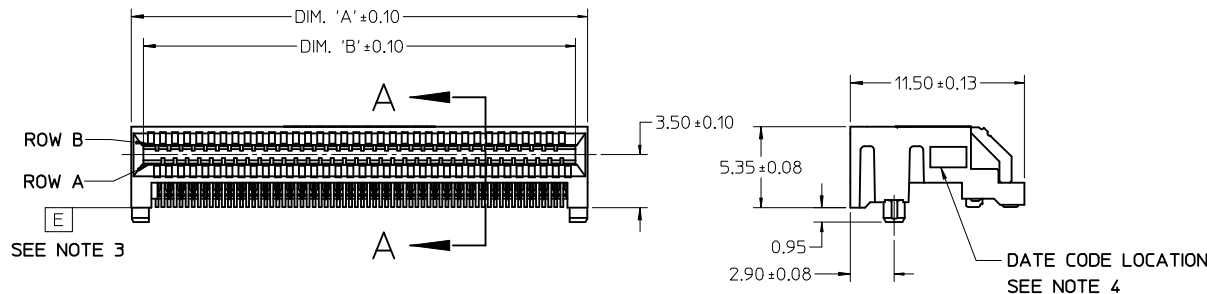
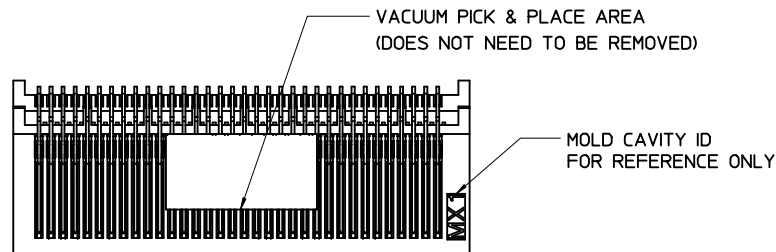
Use With

74548 I/O Connectors

|                                    |                            |
|------------------------------------|----------------------------|
| Temperature Range - Operating      | -40°C to +80°C             |
| Termination Interface: Style       | Surface Mount              |
| Waterproof / Dustproof             | No                         |
| Wire Insulation Diameter           | N/A                        |
| Wire Size AWG                      | N/A                        |
| <b>Electrical</b>                  |                            |
| Current - Maximum per Contact      | 0.5A                       |
| Grounding to Panel                 | N/A                        |
| Shielded                           | No                         |
| Voltage - Maximum                  | 30V AC (RMS)/DC            |
| <b>Solder Process Data</b>         |                            |
| Lead-free Process Capability       | Reflow Capable (SMT only)  |
| Process Temperature max. C         | 260                        |
| <b>Material Info</b>               |                            |
| <b>Reference - Drawing Numbers</b> |                            |
| Application Specification          | AS-75586-001               |
| Packaging Specification            | PK-75586-002, PK-75586-101 |
| Product Specification              | PS-75586-001               |
| Sales Drawing                      | SD-75586-001               |

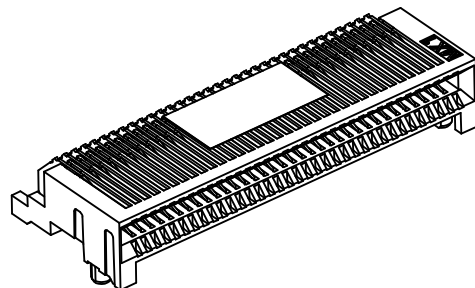
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## SECTION A-A

68 CIRCUIT ASSEMBLY SHOWN



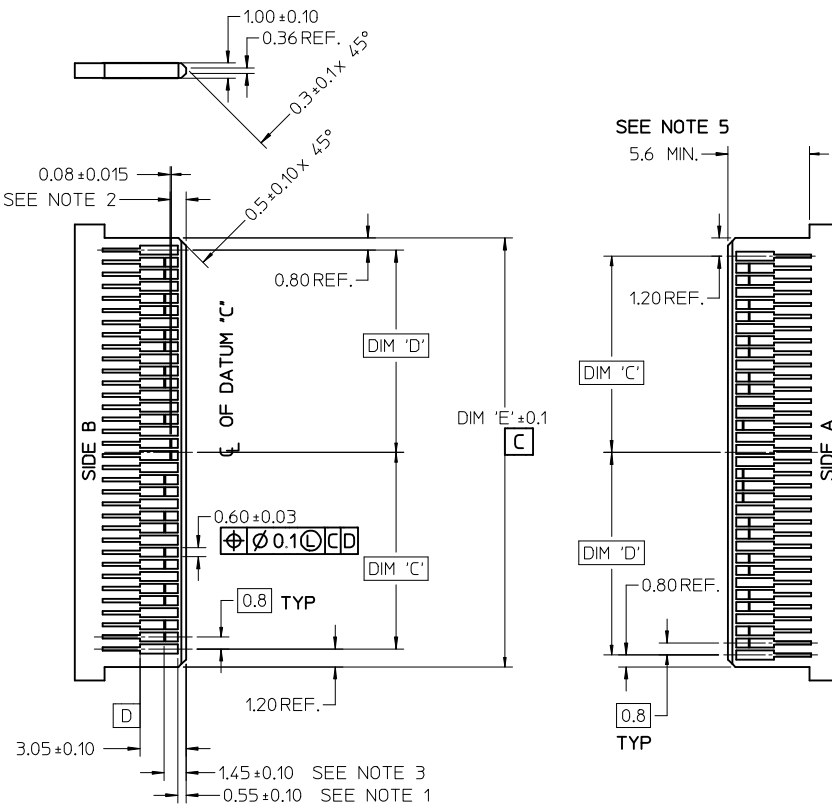
| CIRCUIT SIZE | ITEM NUMBER | PLATING OPTION | DIM 'A' | DIM 'B' | DIM 'C' |
|--------------|-------------|----------------|---------|---------|---------|
| 26           | 75586-0004  | OPTION 1       | 13.40   | 11.80   | 12.00   |
| 26           | 75586-0009  | OPTION 2       | 13.40   | 11.80   | 12.00   |
| 36           | 75586-0003  | OPTION 1       | 17.40   | 15.80   | 16.00   |
| 36           | 75586-0008  | OPTION 2       | 17.40   | 15.80   | 16.00   |
| 38           | 75586-0010  | OPTION 1       | 18.20   | 16.60   | 16.80   |
| 38           | 75586-0011  | OPTION 2       | 18.20   | 16.60   | 16.80   |
| 50           | 75586-0001  | OPTION 1       | 23.00   | 21.40   | 21.60   |
| 50           | 75586-0006  | OPTION 2       | 23.00   | 21.40   | 21.60   |
| 68           | 75586-0002  | OPTION 1       | 30.20   | 28.60   | 28.80   |
| 68           | 75586-0007  | OPTION 2       | 30.20   | 28.60   | 28.80   |

### NOTES

- MATERIAL:  
HOUSING - HIGH TEMPERATURE THERMOPLASTIC GLASS FILLED,  
UL 94V-0, BLACK  
TERMINALS - COPPER ALLOY
- PLATING:  
OPTION 1  
CONTACT AREA - 0.38  $\mu\text{m}$  MIN GOLD OVER 2.54  $\mu\text{m}$  MIN NICKEL  
SOLDER FOOT AREA - 2.54 - 5.09  $\mu\text{m}$  TIN OVER 2.54  $\mu\text{m}$  MIN NICKEL.  
OPTION 2  
CONTACT AREA - 0.76  $\mu\text{m}$  MIN GOLD OVER 2.54  $\mu\text{m}$  NICKEL  
SOLDER AREA - 2.54 - 5.09  $\mu\text{m}$  TIN OVER 2.54  $\mu\text{m}$  MIN NICKEL
- TERMINAL SOLDER FEET TO BE COPLANAR WITHIN 0.10/004 MEASURED FROM FRONT HOUSING STAND OFF (DATUM E)
- DATE CODE: 4 DIGIT (3 DIGIT DATE, 1 DIGIT YEAR)
- CIRCUIT IDENTIFIER: SEE APPROPRIATE INDUSTRY SPECIFICATION FOR LOCATION OF PIN 1
- TO BE USED WITH EXTERNAL CABLES (74546 & 74547 SERIES) AND GUIDE FRAMES (74540 & 74548 SERIES)
- TESTER/ANALYZER CABLES AVAILABLE (74557 & 74558 SERIES)
- PACKAGED PER PACKAGING SPECIFICATION: PK-75586-002
- CONFORMS TO PRODUCT SPECIFICATION: PS-75586-001
- THIS PART CONFORMS TO CLASS C REQUIREMENTS OF COSMETIC SPECIFICATION PS-45499-002.

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|                                                                                                                           |             |                                                                                                                                                                                      |                                       |        |                                                            |                           |                  |                                                                       |                                                                                                              |                     |  |
|---------------------------------------------------------------------------------------------------------------------------|-------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------|--------|------------------------------------------------------------|---------------------------|------------------|-----------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------|---------------------|--|
| UPDATE TOLERANCES<br>EC NO: UCP2010-0536<br>2009/08/27<br>IDRWKLANG<br>2009/09/29<br>CHKD:<br>2009/09/30<br>APPR:MBANAKIS | DESCRIPTION | QUALITY SYMBOLS                                                                                                                                                                      | GENERAL TOLERANCES (UNLESS SPECIFIED) |        | DIMENSION STYLE<br>MM ONLY                                 |                           | SCALE<br>4:1     | DESIGN UNITS<br>METRIC                                                |  THIRD ANGLE PROJECTION |                     |  |
|                                                                                                                           |             |  =0<br> =0 |                                       | mm     | INCH                                                       | DRAWN BY<br>KREGNIER      | DATE<br>07/28/04 | TITLE<br>I-PASS R/A CONNECTOR<br>EXTERNAL ASSEMBLY<br>.8 MM PITCH I/O |                                                                                                              |                     |  |
|                                                                                                                           |             |                                                                                                                                                                                      | 4 PLACES                              | ± ---  | ± ---                                                      | CHECKED BY<br>JLONG       | DATE<br>07/29/04 |                                                                       |                                                                                                              |                     |  |
|                                                                                                                           |             |                                                                                                                                                                                      | 3 PLACES                              | ± ---  | ± ---                                                      | APPROVED BY<br>RNELSON    | DATE<br>07/30/04 |                                                                       |                                                                                                              |                     |  |
|                                                                                                                           |             |                                                                                                                                                                                      | 2 PLACES                              | ± 0.13 | ± ---                                                      | MATERIAL NO.<br>SEE CHART |                  | DOCUMENT NO.<br>SD-75586-001                                          |                                                                                                              | SHEET NO.<br>1 OF 3 |  |
|                                                                                                                           |             |                                                                                                                                                                                      | 1 PLACE                               | ± 0.25 | ± ---                                                      |                           |                  |                                                                       |                                                                                                              |                     |  |
|                                                                                                                           |             | ANGULAR ±1/2°                                                                                                                                                                        |                                       |        | DRAFT WHERE APPLICABLE<br>MUST REMAIN<br>WITHIN DIMENSIONS |                           |                  |                                                                       |                                                                                                              |                     |  |
|                                                                                                                           |             |                                                                                                                                                                                      |                                       |        |                                                            |                           |                  |                                                                       |                                                                                                              |                     |  |
|                                                                                                                           |             |                                                                                                                                                                                      |                                       |        |                                                            |                           |                  |                                                                       |                                                                                                              |                     |  |
|                                                                                                                           |             |                                                                                                                                                                                      |                                       |        |                                                            |                           |                  |                                                                       |                                                                                                              |                     |  |
| REV                                                                                                                       | SIZE        | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION                                                        |                                       |        |                                                            |                           |                  |                                                                       |                                                                                                              |                     |  |



- NOTES:
1. PAD CONFIGURATION FOR FIRST MATE.
  2. PAD CONFIGURATION FOR SECOND MATE.
  3. PAD CONFIGURATION FOR THIRD MATE  
(HIGH SPEED SIGNALS).
  4. FOR PIN ASSIGNMENTS AND MATING SEQUENCE  
(1ST, 2ND, 3RD), SEE APPLICABLE SPECIFICATION.
  5. MINIMUM STEP REQUIRED IF PCB MADE  
WIDER THAN CARD TOUNGE.
  6. SEE 74540 OR 74548 SERIES FOR GUIDE FRAME  
FOOT PRINT AND KEEP OUT AREA.

| CIRCUIT SIZE | TERM/SIDE 'N' | <div> <div>PEG TO PEG</div> <div>FIRST PAD TO LAST PAD</div> <div>CENTERLINE TO PAD</div> <div>CENTERLINE TO PAD</div> <div>MODULE BOARD WIDTH</div> <div>CONNECTOR WIDTH</div> </div> |         |         |         |         |         |
|--------------|---------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|---------|---------|---------|---------|
|              |               | DIM 'A'                                                                                                                                                                                | DIM 'B' | DIM 'C' | DIM 'D' | DIM 'E' | DIM 'F' |
| 26           | 13            | 12.00                                                                                                                                                                                  | 10.00   | 4.60    | 5.00    | 11.60   | 13.90   |
| 36           | 18            | 16.00                                                                                                                                                                                  | 14.00   | 6.60    | 7.00    | 15.60   | 17.90   |
| 38           | 19            | 16.80                                                                                                                                                                                  | 14.80   | 7.00    | 7.40    | 16.40   | 18.70   |
| 50           | 25            | 21.60                                                                                                                                                                                  | 19.60   | 9.40    | 9.80    | 21.20   | 23.50   |
| 68           | 34            | 28.80                                                                                                                                                                                  | 26.80   | 13.00   | 13.40   | 28.40   | 30.70   |

SEE SHEET 1

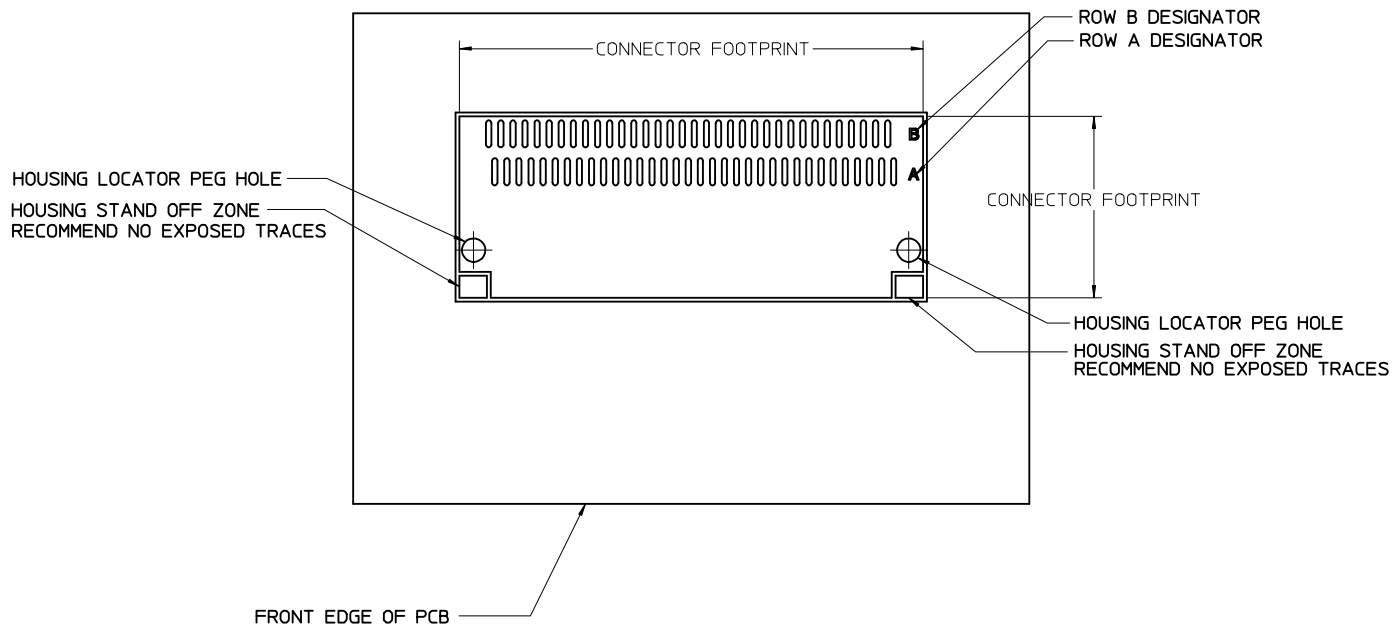
EC NO: UCP2010-0536

DRW/KLANG

CHKD: 2009/09/29

UPPR: MRANAK / S 2009/09/30

|             |                                                                                               |             |                                   |                                                                                                                                       |       |                             |             |                              |                        |                        |                                                                                                  |
|-------------|-----------------------------------------------------------------------------------------------|-------------|-----------------------------------|---------------------------------------------------------------------------------------------------------------------------------------|-------|-----------------------------|-------------|------------------------------|------------------------|------------------------|--------------------------------------------------------------------------------------------------|
| SEE SHEET 1 | EC NO: UCP2010-0536<br>2009/08/27<br>CHWK: LANG<br>2009/09/29<br>APPR: MBANKI S<br>2009/09/30 | DESCRIPTION | QUALITY SYMBOLS<br><br>▽=0<br>◻=0 | GENERAL TOLERANCES (UNLESS SPECIFIED)                                                                                                 |       | DIMENSION STYLE<br>MM ONLY  |             | SCALE<br>4:1                 | DESIGN UNITS<br>METRIC | THIRD ANGLE PROJECTION | TITLE<br><br>I-PASS R/A CONNECTOR EXTERNAL ASSEMBLY<br>.8 MM PITCH I/O<br><br>MOLEX INCORPORATED |
|             |                                                                                               |             |                                   |                                                                                                                                       | mm    | INCH                        |             |                              |                        |                        |                                                                                                  |
|             |                                                                                               |             |                                   | 4 PLACES                                                                                                                              | ±---  | ±---                        | DRAWN BY    | DATE                         |                        |                        |                                                                                                  |
|             |                                                                                               |             |                                   | 3 PLACES                                                                                                                              | ±---  | ±---                        | CHECKED BY  | DATE                         |                        |                        |                                                                                                  |
|             |                                                                                               |             |                                   | 2 PLACES                                                                                                                              | ±0.13 | ±---                        | JLONG       | 07/29/04                     |                        |                        |                                                                                                  |
|             |                                                                                               |             |                                   | 1 PLACE                                                                                                                               | ±0.25 | ±---                        | APPROVED BY | DATE                         |                        |                        |                                                                                                  |
|             |                                                                                               |             |                                   | ANGULAR ±1/2°                                                                                                                         |       |                             | RNELSON     | 07/30/04                     |                        |                        |                                                                                                  |
|             |                                                                                               |             |                                   | DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS                                                                                  |       | MATERIAL NO.<br>SEE SHEET 1 |             | DOCUMENT NO.<br>SD-75586-001 |                        | SHEET NO.<br>2 OF 3    |                                                                                                  |
|             |                                                                                               | REV         |                                   | SIZE<br>THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION |       |                             |             |                              |                        |                        |                                                                                                  |



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|                                                                                                                |                                   |             |                                                            |        |                            |                      |                                                                                                                               |                        |                                                                                                              |                                                                           |           |  |
|----------------------------------------------------------------------------------------------------------------|-----------------------------------|-------------|------------------------------------------------------------|--------|----------------------------|----------------------|-------------------------------------------------------------------------------------------------------------------------------|------------------------|--------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------|-----------|--|
| SEE SHEET 1<br>EC NO: UCP2010-0536<br>2009/08/27<br>DRWN:KLANG<br>CHKD: 2009/09/29<br>APPR:MBANAKIS 2009/09/30 | QUALITY SYMBOLS<br><br>▽=0<br>▽=0 | DESCRIPTION | GENERAL TOLERANCES (UNLESS SPECIFIED)                      |        | DIMENSION STYLE<br>MM ONLY |                      | SCALE<br>4:1                                                                                                                  | DESIGN UNITS<br>METRIC |  THIRD ANGLE PROJECTION | TITLE<br><br>I-PASS R/A CONNECTOR<br>EXTERNAL ASSEMBLY<br>.8 MM PITCH I/O |           |  |
|                                                                                                                |                                   |             |                                                            | mm     | INCH                       | DRAWN BY<br>KREGNIER | DATE<br>07/28/04                                                                                                              |                        |                                                                                                              |                                                                           |           |  |
|                                                                                                                |                                   |             | 4 PLACES                                                   | ± ---  | ± ---                      | CHECKED BY           | DATE                                                                                                                          |                        |                                                                                                              |                                                                           |           |  |
|                                                                                                                |                                   |             | 3 PLACES                                                   | ± ---  | ± ---                      | JLONG                | 07/29/04                                                                                                                      |                        |                                                                                                              |                                                                           |           |  |
|                                                                                                                |                                   |             | 2 PLACES                                                   | ± 0.13 | ± ---                      | APPROVED BY          | DATE                                                                                                                          |                        |                                                                                                              |                                                                           |           |  |
|                                                                                                                |                                   |             | 1 PLACE                                                    | ± 0.25 | ± ---                      | RNELSON              | 07/30/04                                                                                                                      |                        |                                                                                                              |                                                                           |           |  |
|                                                                                                                |                                   |             | ANGULAR ±1/2°                                              |        | MATERIAL NO.               |                      | DOCUMENT NO.                                                                                                                  |                        |                                                                                                              |                                                                           | SHEET NO. |  |
|                                                                                                                |                                   |             | DRAFT WHERE APPLICABLE<br>MUST REMAIN<br>WITHIN DIMENSIONS |        | SEE CHART                  |                      | SD-75586-001                                                                                                                  |                        |                                                                                                              |                                                                           | 3 OF 3    |  |
|                                                                                                                |                                   |             |                                                            |        | SIZE C                     |                      | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION |                        |                                                                                                              |                                                                           |           |  |
|                                                                                                                |                                   |             | REV                                                        |        |                            |                      |                                                                                                                               |                        |                                                                                                              |                                                                           |           |  |