

PLEASE CHECK [WWW.MOLEX.COM](http://WWW.MOLEX.COM) FOR LATEST PART INFORMATION

**Part Number:** [0757830107](#)  
**Status:** **Active**  
**Overview:** [ipass](#)  
**Description:** 0.80mm (.031") Pitch, iPass™ I/O SMT Receptacle, Right Angle, Internal Application, 36 Circuit, 0.38μm (15μ") Gold (Au), Retention Shell, Left Key

**Documents:**  
[Drawing \(PDF\)](#) [RoHS Certificate of Compliance \(PDF\)](#)  
[Product Specification PS-75783-001 \(PDF\)](#)

**Agency Certification**

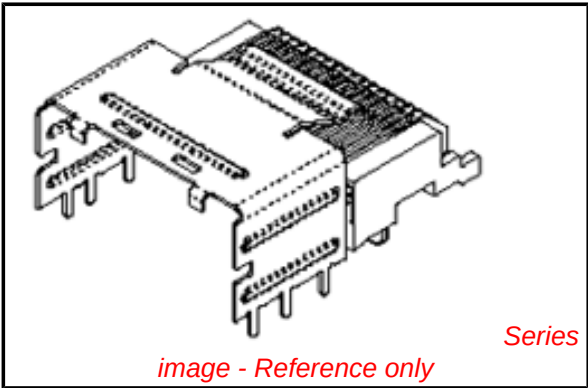
CSA LR19980  
UL E29179

**General**

Product Family I/O Connectors  
Series [75783](#)  
Application Wire-to-Board  
Comments Positive or passive latching cable available  
Component Type Receptacle  
Overview [ipass](#)  
Product Name iPass™, PCI Express\*, SAS, Serial ATA  
Type N/A

**Physical**

Boot Color N/A  
Circuits (Loaded) 36  
Circuits (maximum) 36  
Color - Resin Black  
Durability (mating cycles max) 25  
Flammability 94V-0  
Gender Receptacle  
Keying to Mating Part Yes  
Lock to Mating Part None  
Material - Metal Copper-Nickel-Zinc, 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 Yes  
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**



**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.

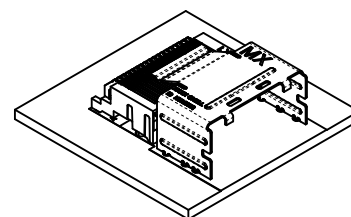
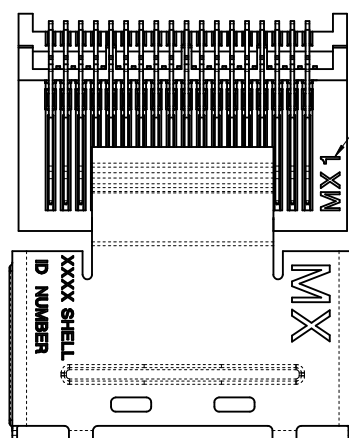
**Search Parts in this Series**  
[75783Series](#)

**Mates With**  
iPass™ Cable Assemblies, [79575](#) , [79576](#) , [74562](#) , [74563](#) , [79536](#) , [74573](#) , [74569](#) , [74586](#)

|                                    |                           |
|------------------------------------|---------------------------|
| 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                 | None                      |
| Shield Type                        | Full Shield               |
| Shielded                           | Yes                       |
| 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> |                           |
| Packaging Specification            | PK-75783-001              |
| Product Specification              | PS-75783-001              |
| Sales Drawing                      | SD-75783-001              |

This document was generated on 05/28/2010

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# NOTES:

## 1. MATERIAL:

### CONNECTOR:

HOUSING - HIGH TEMPERATURE THERMOPLASTIC GLASS FILLED, UL 94V-0, BLACK  
TERMINALS - COPPER ALLOY

### SHELL

SILVER NICKEL, C770, THICKNESS: 0.250/0.254

## 2. FINISH:

### CONNECTOR

#### OPTION 1

CONTACT AREA - 0.38 $\mu$ m MIN GOLD OVER 2.54  $\mu$ m NICKEL

SOLDER FOOT AREA - 2.54-5.09 $\mu$ m TIN OVER 1.27  $\mu$ m NICKEL

#### OPTION 2

CONTACT AREA - 0.76 $\mu$ m MIN GOLD OVER 2.54  $\mu$ m NICKEL

SOLDER FOOT AREA - 2.54-5.09 $\mu$ m TIN OVER 1.27  $\mu$ m NICKEL

## 3. TERMINAL SOLDER FEET TO BE COPLANAR WITHIN 0.10 MEASURED FROM FRONT HOUSING STAND OFF (DATUM C)

## 4. DATE CODE: 4 DIGIT (3 DIGIT DAY, 1 DIGIT YEAR) CONNECTOR ONLY

## 5. CIRCUIT IDENTIFIER: SEE APPROPRIATE INDUSTRY SPECIFICATION FOR LOCATION OF PIN 1.

## 6. TO BE USED WITH THE FOLLOWING CABLE SERIES:

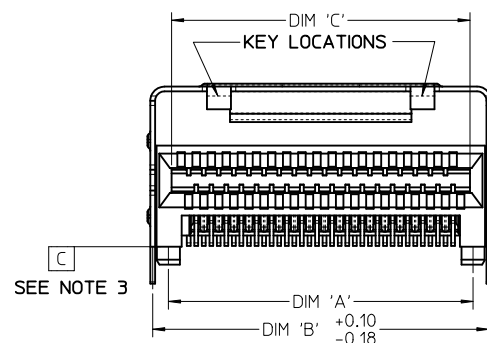
79575/74563/79576/74573/79536/74562/74569/74586

## 7. PACKAGED PER PACKAGING SPECIFICATION: PK-75783-001

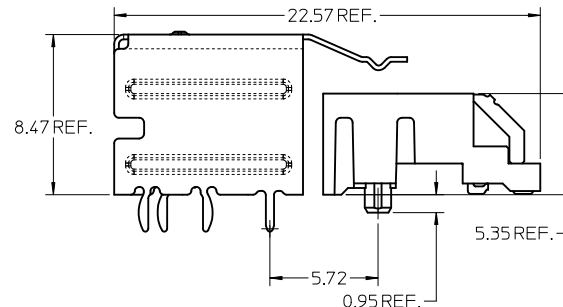
## 8. CONFORMS TO PRODUCT SPECIFICATION: PS-75783-001

## 9. PROCESS PER APPLICATION SPECIFICATION: AS-75783-001

## 10. THIS PART CONFORMS TO CLASS C REQUIREMENTS OF COSMETIC SPEC PS-45499-002



36 CIRCUIT  
RETENTION FIT  
SHELL OPTION SHOWN



| CIRCUIT SIZE | DIM 'A' | DIM 'B' | DIM 'C' |
|--------------|---------|---------|---------|
| 26           | 12.00   | 13.80   | 11.80   |
| 36           | 16.00   | 17.80   | 15.80   |
| 50           | 21.60   | 23.40   | 21.40   |
| 68           | 28.80   | 30.60   | 28.60   |

GEOMETRY UPDATE  
EC NO: UCP2010-1913  
2010/02/03  
DRUNKLANG  
CHKD: JSWENSON  
2010/03/24  
APPR: MBANAKIS  
2010/03/25

QUALITY SYMBOLS  
=0  
=0

GENERAL TOLERANCES (UNLESS SPECIFIED)

|          | mm     | INCH    |
|----------|--------|---------|
| 4 PLACES | ± .005 | ± .0004 |
| 3 PLACES | ± .008 | ± .0006 |
| 2 PLACES | ± .013 | ± .0010 |
| 1 PLACE  | ± .025 | ± .0020 |
| ANGULAR  | ± 1/2° |         |

DRAFT WHERE APPLICABLE  
MUST REMAIN  
WITHIN DIMENSIONS

DIMENSION STYLE  
MM ONLY

| DRAWN BY    | DATE     |
|-------------|----------|
| KLANG       | 02/09/05 |
| CHECKED BY  | DATE     |
| JSWENSON    | 02/09/05 |
| APPROVED BY | DATE     |
| MBANAKIS    | 02/02/05 |

MATERIAL NO.  
SEE CHART

SCALE  
5:1

DESIGN UNITS  
METRIC

THIRD ANGLE PROJECTION

TITLE  
I-PASS R/A CONNECTOR  
INTERNAL ASSY W/SHELL  
0.8MM PITCH I/O

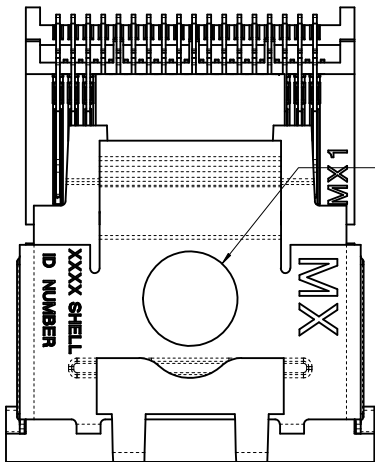
MOLEX INCORPORATED

DOCUMENT NO.  
SD-75783-001

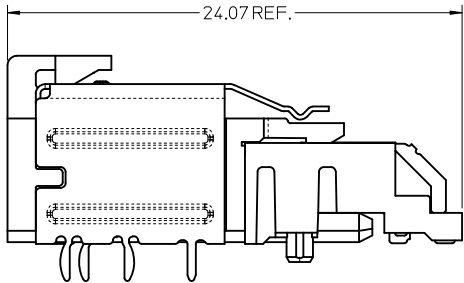
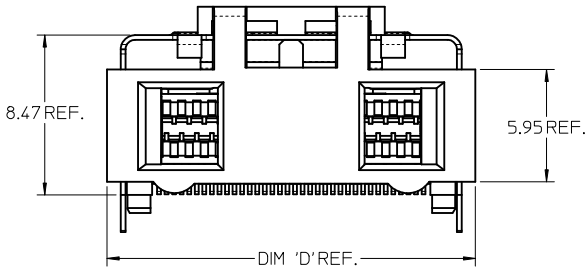
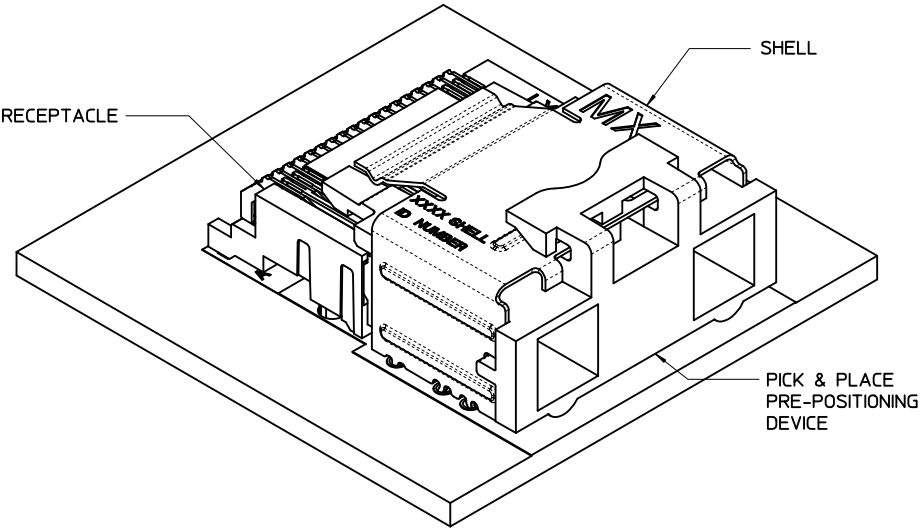
SHEET NO.  
1 OF 12

THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION

ASSEMBLY WITH PRE-POSITION DEVICE



PICK & PLACE  
NOZZLE AREA



36 CIRCUIT RETENTION-FIT SHELL OPTION SHOWN

| CIRCUIT<br>SIZE | DIM 'D' |
|-----------------|---------|
| 26              | 15.50   |
| 36              | 19.50   |
| 50              | 25.10   |
| 68              | 32.30   |

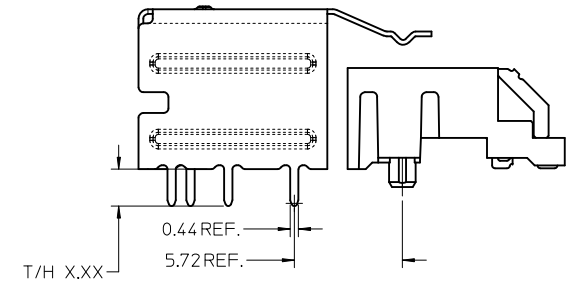
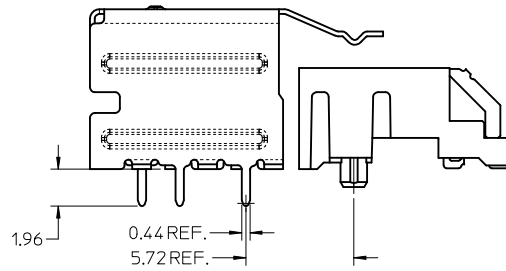
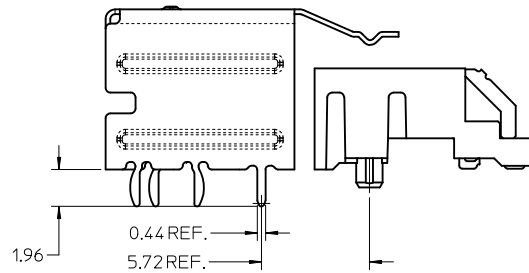
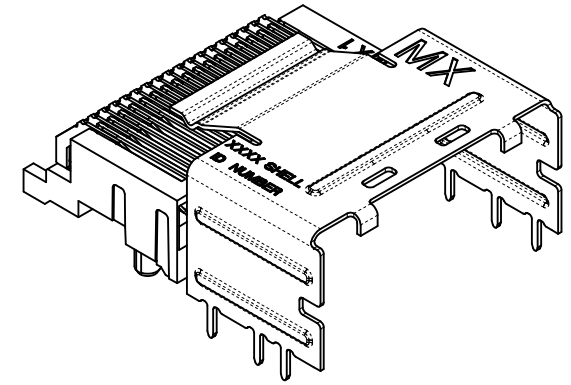
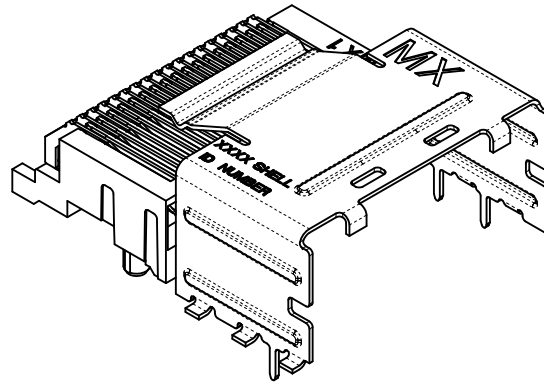
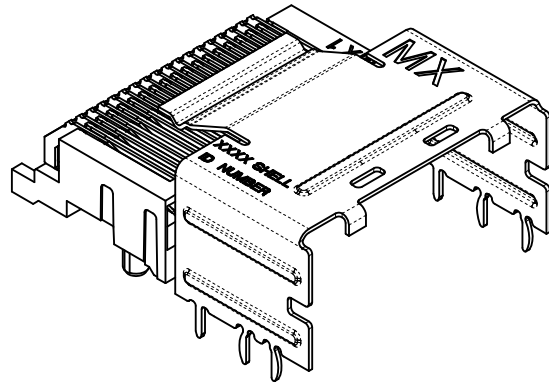
NOTES:

1. PICK AND PLACE AREA DEFINED IN APPLICATION SPECIFICATION, AS-75783-001
2. PACKAGING CONSISTS OF CONNECTOR AND SHELL WITH A PRE-POSITIONING PICK AND PLACE DEVICE THAT ARE PACKAGED IN 'TAPE AND REEL' FOR ROBOTIC PICK AND PLACE.

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|                                                                                                                                        |                                      |             |                                                            |        |                            |                         |                                                                                                                                  |                                                                                                           |                           |           |  |  |  |
|----------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|-------------|------------------------------------------------------------|--------|----------------------------|-------------------------|----------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------|---------------------------|-----------|--|--|--|
| SEE SHEET 1<br>EC NO: UCP2010-1913<br>2010/02/03<br>DRWN:KLANG<br>CHKD:JSWENSON<br>2010/03/24<br>APPR:MBANAKIS<br>2010/03/25<br><br>D1 | QUALITY<br>SYMBOLS<br><br>▽=0<br>▽=0 | DESCRIPTION | GENERAL TOLERANCES<br>(UNLESS SPECIFIED)                   |        | DIMENSION STYLE<br>MM ONLY |                         | SCALE<br>5:1                                                                                                                     | DESIGN UNITS<br>METRIC                                                                                    | THIRD ANGLE<br>PROJECTION |           |  |  |  |
|                                                                                                                                        |                                      |             |                                                            | mm     | INCH                       | DRAWN BY<br>KLANG       | DATE<br>02/09/05                                                                                                                 | TITLE<br>I-PASS R/A CONNECTOR<br>INTERNAL ASSY W/SHELL<br>0.8MM PITCH I/O<br><br>MOLEX MOLEX INCORPORATED |                           |           |  |  |  |
|                                                                                                                                        |                                      |             | 4 PLACES                                                   | ± ---  | ± ---                      | CHECKED BY<br>JSWENSON  | DATE<br>02/09/05                                                                                                                 |                                                                                                           |                           |           |  |  |  |
|                                                                                                                                        |                                      |             | 3 PLACES                                                   | ± ---  | ± ---                      | APPROVED BY<br>MBANAKIS | DATE<br>02/02/05                                                                                                                 |                                                                                                           |                           |           |  |  |  |
|                                                                                                                                        |                                      |             | 2 PLACES                                                   | ± 0.13 | ± ---                      | MATERIAL NO.            |                                                                                                                                  | DOCUMENT NO.                                                                                              |                           | SHEET NO. |  |  |  |
|                                                                                                                                        |                                      |             | 1 PLACE                                                    | ± 0.25 | ± ---                      | SIZE<br>C               |                                                                                                                                  | SD-75783-001                                                                                              |                           | 2 OF 12   |  |  |  |
|                                                                                                                                        |                                      |             | ANGULAR ±1/2°                                              |        | SEE CHART                  |                         | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX<br>INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION |                                                                                                           |                           |           |  |  |  |
|                                                                                                                                        |                                      |             | DRAFT WHERE APPLICABLE<br>MUST REMAIN<br>WITHIN DIMENSIONS |        |                            |                         |                                                                                                                                  |                                                                                                           |                           |           |  |  |  |

# SHELL PCB INTERFACE



RETENTION-FIT  
SHELL OPTION

SMT SHELL OPTION

THRU-HOLE SHELL OPTION  
SEE TABLE FOR LENGTH  
(X.XX DENOTES TAIL LENGTH)

RECOMMENDED PCB THICKNESS  
FOR SPECIFIED TAIL LENGTH

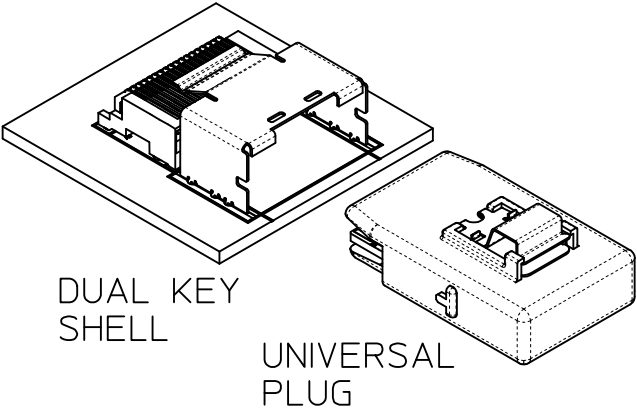
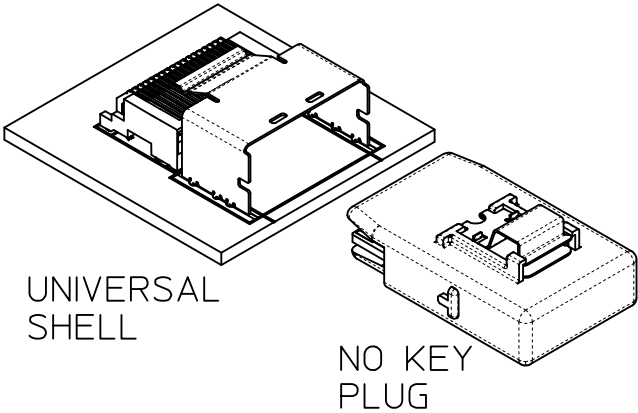
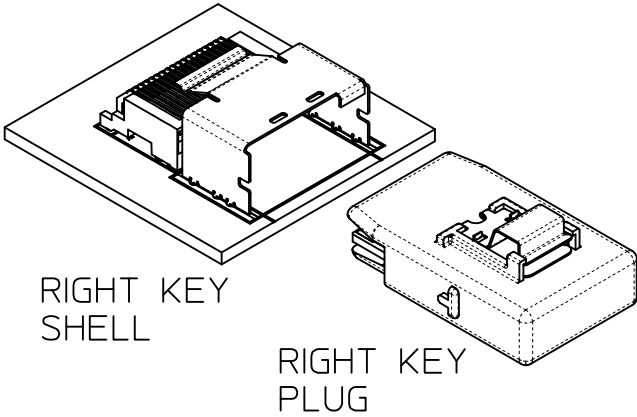
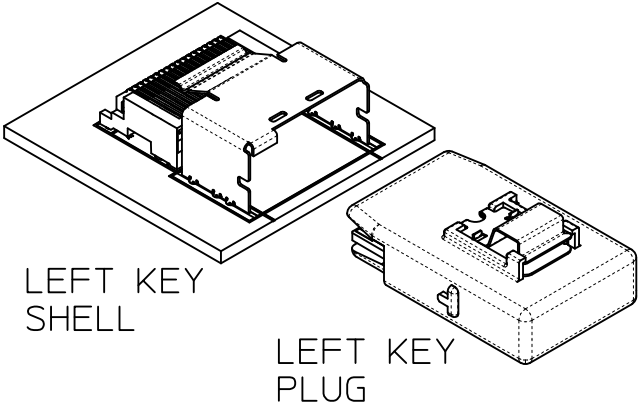
| TAIL LENGTH | PCB THICKNESS |
|-------------|---------------|
| 1.96        | 1.57 (.062)   |
| 2.79        | 2.36 (.093)   |
| 3.18        | 2.79 (.110)   |
| 3.56        | 3.18 (.125)   |

NOTE:  
RETENTION FIT DENOTES TAILS THAT OFFER RETENTION  
TO PCB DURING REFLOW PROCESS  
SMT DENOTES SURFACE MOUNT TERMINATION  
T/H X.XX DENOTES THRU-HOLE TAIL OF LENGTH X.XX

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|                                                                                                                            |             |                                                            |                                       |                         |                            |                                                                                                                                  |                          |                                                                           |                           |
|----------------------------------------------------------------------------------------------------------------------------|-------------|------------------------------------------------------------|---------------------------------------|-------------------------|----------------------------|----------------------------------------------------------------------------------------------------------------------------------|--------------------------|---------------------------------------------------------------------------|---------------------------|
| SEE SHEET 1<br>EC NO: UCP2010-1913<br>DRWN:KLANG 2010/02/03<br>CHKD:JSWENSON 2010/03/24<br>APPR:MBANAKIS 2010/03/25<br>REV | DESCRIPTION | QUALITY SYMBOLS                                            | GENERAL TOLERANCES (UNLESS SPECIFIED) |                         | DIMENSION STYLE<br>MM ONLY |                                                                                                                                  | SCALE<br>5:1             | DESIGN UNITS<br>METRIC                                                    | THIRD ANGLE<br>PROJECTION |
|                                                                                                                            |             | ▽=0<br>▽=0                                                 |                                       |                         | DRAWN BY<br>KLANG          |                                                                                                                                  | DATE<br>02/09/05         | TITLE<br>I-PASS R/A CONNECTOR<br>INTERNAL ASSY W/SHELL<br>0.8MM PITCH I/O |                           |
|                                                                                                                            |             | 4 PLACES ± --- ± ---                                       |                                       | CHECKED BY<br>JSWENSON  |                            | DATE<br>02/09/05                                                                                                                 |                          |                                                                           |                           |
|                                                                                                                            |             | 3 PLACES ± --- ± ---                                       |                                       | APPROVED BY<br>MBANAKIS |                            | DATE<br>02/02/05                                                                                                                 | MOLEX MOLEX INCORPORATED |                                                                           |                           |
|                                                                                                                            |             | 2 PLACES ± 0.13 ± ---                                      |                                       | MATERIAL NO.            |                            | DOCUMENT NO.                                                                                                                     | SHEET NO.                |                                                                           |                           |
|                                                                                                                            |             | 1 PLACE ± 0.25 ± ---                                       |                                       | SEE CHART               |                            | SD-75783-001                                                                                                                     |                          | 3 OF 12                                                                   |                           |
|                                                                                                                            |             | ANGULAR ±1/2°                                              |                                       | SIZE                    |                            | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX<br>INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION |                          |                                                                           |                           |
|                                                                                                                            |             | DRAFT WHERE APPLICABLE<br>MUST REMAIN<br>WITHIN DIMENSIONS |                                       |                         |                            |                                                                                                                                  |                          |                                                                           |                           |
|                                                                                                                            |             |                                                            |                                       |                         |                            |                                                                                                                                  |                          |                                                                           |                           |
|                                                                                                                            |             |                                                            |                                       |                         |                            |                                                                                                                                  |                          |                                                                           |                           |

KEYING OPTIONS



|                   | UNIVERSAL<br>SHELL | LEFT KEY<br>SHELL | RIGHT KEY<br>SHELL | DUAL KEY<br>SHELL |
|-------------------|--------------------|-------------------|--------------------|-------------------|
| NO KEY<br>PLUG    | YES                | NO                | NO                 | NO                |
| LEFT KEY<br>PLUG  | YES                | YES               | NO                 | NO                |
| RIGHT KEY<br>PLUG | YES                | NO                | YES                | NO                |
| UNIVERSAL<br>PLUG | YES                | YES               | YES                | YES               |

|                                                                                                                             |           |             |                                   |                                                            |        |                            |                         |                  |                              |                                                                                                              |                                                                                                                                                                                           |                                                                                                                               |  |
|-----------------------------------------------------------------------------------------------------------------------------|-----------|-------------|-----------------------------------|------------------------------------------------------------|--------|----------------------------|-------------------------|------------------|------------------------------|--------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|--|
| SEE SHEET 1<br>EC NO: UCP2010-1913<br>2010/02/03<br>DRWN:KLANG<br>2010/03/24<br>CHKD:JWENSON<br>2010/03/25<br>APPR:MBANAKIS | REV<br>D1 | DESCRIPTION | QUALITY SYMBOLS<br><br>▽=0<br>▽=0 | GENERAL TOLERANCES (UNLESS SPECIFIED)                      |        | DIMENSION STYLE<br>MM ONLY |                         | SCALE<br>2:1     | DESIGN UNITS<br>METRIC       |  THIRD ANGLE PROJECTION | TITLE<br>I-PASS R/A CONNECTOR<br>INTERNAL ASSY W/SHELL<br>0.8MM PITCH I/O<br><br> MOLEX INCORPORATED |                                                                                                                               |  |
|                                                                                                                             |           |             |                                   |                                                            | mm     | INCH                       | DRAWN BY<br>KLANG       | DATE<br>02/09/05 | DOCUMENT NO.<br>SD-75783-001 |                                                                                                              |                                                                                                                                                                                           | SHEET NO.<br>4 OF 12                                                                                                          |  |
|                                                                                                                             |           |             |                                   | 4 PLACES                                                   | ± ---  | ± ---                      | CHECKED BY<br>JWENSON   | DATE<br>02/09/05 | SEE CHART                    |                                                                                                              |                                                                                                                                                                                           | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION |  |
|                                                                                                                             |           |             |                                   | 3 PLACES                                                   | ± ---  | ± ---                      | APPROVED BY<br>MBANAKIS | DATE<br>02/02/05 | SIZE<br>C                    |                                                                                                              |                                                                                                                                                                                           |                                                                                                                               |  |
|                                                                                                                             |           |             |                                   | 2 PLACES                                                   | ± 0.13 | ± ---                      | MATERIAL NO.            |                  |                              |                                                                                                              |                                                                                                                                                                                           |                                                                                                                               |  |
|                                                                                                                             |           |             |                                   | 1 PLACE                                                    | ± 0.25 | ± ---                      | ANGULAR ±1/2°           |                  |                              |                                                                                                              |                                                                                                                                                                                           |                                                                                                                               |  |
|                                                                                                                             |           |             |                                   | DRAFT WHERE APPLICABLE<br>MUST REMAIN<br>WITHIN DIMENSIONS |        |                            |                         |                  |                              |                                                                                                              |                                                                                                                                                                                           |                                                                                                                               |  |

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26 CIRCUIT ITEM NUMBERS

| CIRCUIT SIZE | ITEM NUMBER | PLATING OPTION | SHELL PCB OPTION | SHELL KEY OPTION |
|--------------|-------------|----------------|------------------|------------------|
| 26           | 75783-0007  | OPTION 1       | RETENTION        | LEFT             |
| 26           | 75783-0008  | OPTION 1       | RETENTION        | RIGHT            |
| 26           | 75783-0009  | OPTION 1       | RETENTION        | DUAL             |
| 26           | 75783-0010  | OPTION 1       | SMT              | LEFT             |
| 26           | 75783-0011  | OPTION 1       | SMT              | RIGHT            |
| 26           | 75783-0012  | OPTION 1       | SMT              | DUAL             |
| 26           | 75783-0019  | OPTION 2       | RETENTION        | LEFT             |
| 26           | 75783-0020  | OPTION 2       | RETENTION        | RIGHT            |
| 26           | 75783-0021  | OPTION 2       | RETENTION        | DUAL             |
| 26           | 75783-0022  | OPTION 2       | SMT              | LEFT             |
| 26           | 75783-0023  | OPTION 2       | SMT              | RIGHT            |
| 26           | 75783-0024  | OPTION 2       | SMT              | DUAL             |
| 26           | 75783-0025  | OPTION 1       | RETENTION        | UNIVERSAL        |
| 26           | 75783-0026  | OPTION 1       | SMT              | UNIVERSAL        |
| 26           | 75783-0027  | OPTION 2       | RETENTION        | UNIVERSAL        |
| 26           | 75783-0028  | OPTION 2       | SMT              | UNIVERSAL        |
| 26           | 75783-0029  | OPTION 1       | T/H 1.96         | LEFT             |
| 26           | 75783-0030  | OPTION 1       | T/H 1.96         | RIGHT            |
| 26           | 75783-0031  | OPTION 1       | T/H 1.96         | DUAL             |
| 26           | 75783-0032  | OPTION 1       | T/H 1.96         | UNIVERSAL        |
| 26           | 75783-0033  | OPTION 2       | T/H 1.96         | LEFT             |
| 26           | 75783-0034  | OPTION 2       | T/H 1.96         | RIGHT            |
| 26           | 75783-0035  | OPTION 2       | T/H 1.96         | DUAL             |
| 26           | 75783-0036  | OPTION 2       | T/H 1.96         | UNIVERSAL        |

| CIRCUIT SIZE | ITEM NUMBER | PLATING OPTION | SHELL PCB OPTION | SHELL KEY OPTION |
|--------------|-------------|----------------|------------------|------------------|
| 26           | 75783-0037  | OPTION 1       | T/H 2.79         | LEFT             |
| 26           | 75783-0038  | OPTION 1       | T/H 2.79         | RIGHT            |
| 26           | 75783-0039  | OPTION 1       | T/H 2.79         | DUAL             |
| 26           | 75783-0040  | OPTION 1       | T/H 2.79         | UNIVERSAL        |
| 26           | 75783-0041  | OPTION 2       | T/H 2.79         | LEFT             |
| 26           | 75783-0042  | OPTION 2       | T/H 2.79         | RIGHT            |
| 26           | 75783-0043  | OPTION 2       | T/H 2.79         | DUAL             |
| 26           | 75783-0044  | OPTION 2       | T/H 2.79         | UNIVERSAL        |
| 26           | 75783-0045  | OPTION 1       | T/H 3.18         | LEFT             |
| 26           | 75783-0046  | OPTION 1       | T/H 3.18         | RIGHT            |
| 26           | 75783-0047  | OPTION 1       | T/H 3.18         | DUAL             |
| 26           | 75783-0048  | OPTION 1       | T/H 3.18         | UNIVERSAL        |
| 26           | 75783-0049  | OPTION 2       | T/H 3.18         | LEFT             |
| 26           | 75783-0050  | OPTION 2       | T/H 3.18         | RIGHT            |
| 26           | 75783-0051  | OPTION 2       | T/H 3.18         | DUAL             |
| 26           | 75783-0052  | OPTION 2       | T/H 3.18         | UNIVERSAL        |

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|                                                                                                                                |                               |                                                                                                                                  |  |                            |  |                  |                        |                                                                           |  |
|--------------------------------------------------------------------------------------------------------------------------------|-------------------------------|----------------------------------------------------------------------------------------------------------------------------------|--|----------------------------|--|------------------|------------------------|---------------------------------------------------------------------------|--|
| SEE SHEET 1<br>EC NO: UCP2010-1913<br>2010/02/03<br>DRWN:KLANG<br>CHKD:JSWENSON<br>2010/03/24<br>APPR:MBANAK I S<br>2010/03/25 | QUALITY SYMBOLS<br>▽=0<br>▽=0 | GENERAL TOLERANCES (UNLESS SPECIFIED)                                                                                            |  | DIMENSION STYLE<br>MM ONLY |  | SCALE<br>2:1     | DESIGN UNITS<br>METRIC | THIRD ANGLE PROJECTION                                                    |  |
|                                                                                                                                |                               |                                                                                                                                  |  | DRAWN BY<br>KLANG          |  | DATE<br>02/09/05 |                        | TITLE<br>I-PASS R/A CONNECTOR<br>INTERNAL ASSY W/SHELL<br>0.8MM PITCH I/O |  |
|                                                                                                                                |                               |                                                                                                                                  |  | CHECKED BY<br>JSWENSON     |  | DATE<br>02/09/05 |                        |                                                                           |  |
|                                                                                                                                |                               |                                                                                                                                  |  | APPROVED BY<br>MBANAK I S  |  | DATE<br>02/02/05 |                        |                                                                           |  |
|                                                                                                                                |                               |                                                                                                                                  |  | MATERIAL NO.               |  | DOCUMENT NO.     |                        | SHEET NO.                                                                 |  |
| DRAFT WHERE APPLICABLE<br>MUST REMAIN<br>WITHIN DIMENSIONS                                                                     |                               | SEE CHART                                                                                                                        |  | SD-75783-001               |  | 5 OF 12          |                        |                                                                           |  |
| SIZE<br>C                                                                                                                      |                               | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX<br>INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION |  |                            |  |                  |                        |                                                                           |  |

# 36 CIRCUIT ITEM NUMBERS

| CIRCUIT SIZE | ITEM NUMBER | PLATING OPTION | SHELL PCB OPTION | SHELL KEY OPTION |
|--------------|-------------|----------------|------------------|------------------|
| 36           | 75783-0107  | OPTION 1       | RETENTION        | LEFT             |
| 36           | 75783-0108  | OPTION 1       | RETENTION        | RIGHT            |
| 36           | 75783-0109  | OPTION 1       | RETENTION        | DUAL             |
| 36           | 75783-0110  | OPTION 1       | SMT              | LEFT             |
| 36           | 75783-0111  | OPTION 1       | SMT              | RIGHT            |
| 36           | 75783-0112  | OPTION 1       | SMT              | DUAL             |
| 36           | 75783-0119  | OPTION 2       | RETENTION        | LEFT             |
| 36           | 75783-0120  | OPTION 2       | RETENTION        | RIGHT            |
| 36           | 75783-0121  | OPTION 2       | RETENTION        | DUAL             |
| 36           | 75783-0122  | OPTION 2       | SMT              | LEFT             |
| 36           | 75783-0123  | OPTION 2       | SMT              | RIGHT            |
| 36           | 75783-0124  | OPTION 2       | SMT              | DUAL             |
| 36           | 75783-0125  | OPTION 1       | RETENTION        | UNIVERSAL        |
| 36           | 75783-0126  | OPTION 1       | SMT              | UNIVERSAL        |
| 36           | 75783-0127  | OPTION 2       | RETENTION        | UNIVERSAL        |
| 36           | 75783-0128  | OPTION 2       | SMT              | UNIVERSAL        |
| 36           | 75783-0129  | OPTION 1       | T/H 1.96         | LEFT             |
| 36           | 75783-0130  | OPTION 1       | T/H 1.96         | RIGHT            |
| 36           | 75783-0131  | OPTION 1       | T/H 1.96         | DUAL             |
| 36           | 75783-0132  | OPTION 1       | T/H 1.96         | UNIVERSAL        |
| 36           | 75783-0133  | OPTION 2       | T/H 1.96         | LEFT             |
| 36           | 75783-0134  | OPTION 2       | T/H 1.96         | RIGHT            |
| 36           | 75783-0135  | OPTION 2       | T/H 1.96         | DUAL             |
| 36           | 75783-0136  | OPTION 2       | T/H 1.96         | UNIVERSAL        |

| CIRCUIT SIZE | ITEM NUMBER | PLATING OPTION | SHELL PCB OPTION | SHELL KEY OPTION |
|--------------|-------------|----------------|------------------|------------------|
| 36           | 75783-0137  | OPTION 1       | T/H 2.79         | LEFT             |
| 36           | 75783-0138  | OPTION 1       | T/H 2.79         | RIGHT            |
| 36           | 75783-0139  | OPTION 1       | T/H 2.79         | DUAL             |
| 36           | 75783-0140  | OPTION 1       | T/H 2.79         | UNIVERSAL        |
| 36           | 75783-0141  | OPTION 2       | T/H 2.79         | LEFT             |
| 36           | 75783-0142  | OPTION 2       | T/H 2.79         | RIGHT            |
| 36           | 75783-0143  | OPTION 2       | T/H 2.79         | DUAL             |
| 36           | 75783-0144  | OPTION 2       | T/H 2.79         | UNIVERSAL        |
| 36           | 75783-0145  | OPTION 1       | T/H 3.18         | LEFT             |
| 36           | 75783-0146  | OPTION 1       | T/H 3.18         | RIGHT            |
| 36           | 75783-0147  | OPTION 1       | T/H 3.18         | DUAL             |
| 36           | 75783-0148  | OPTION 1       | T/H 3.18         | UNIVERSAL        |
| 36           | 75783-0149  | OPTION 2       | T/H 3.18         | LEFT             |
| 36           | 75783-0150  | OPTION 2       | T/H 3.18         | RIGHT            |
| 36           | 75783-0151  | OPTION 2       | T/H 3.18         | DUAL             |
| 36           | 75783-0152  | OPTION 2       | T/H 3.18         | UNIVERSAL        |
| 36           | 75783-0153  | OPTION 1       | T/H 3.56         | LEFT             |
| 36           | 75783-0154  | OPTION 1       | T/H 3.56         | RIGHT            |
| 36           | 75783-0155  | OPTION 1       | T/H 3.56         | DUAL             |
| 36           | 75783-0156  | OPTION 1       | T/H 3.56         | UNIVERSAL        |
| 36           | 75783-0157  | OPTION 2       | T/H 3.56         | LEFT             |
| 36           | 75783-0158  | OPTION 2       | T/H 3.56         | RIGHT            |
| 36           | 75783-0159  | OPTION 2       | T/H 3.56         | DUAL             |
| 36           | 75783-0160  | OPTION 2       | T/H 3.56         | UNIVERSAL        |

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|                                                                                                                                           |                                      |                                                                                                                               |  |                                                 |  |                                                                                                               |                               |                                |
|-------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|--|-------------------------------------------------|--|---------------------------------------------------------------------------------------------------------------|-------------------------------|--------------------------------|
| <b>ENTER DESCRIPTION</b><br>EC NO: UCP2010-1913<br>2010/02/03<br>DRWN:KLANG<br>CHKD:JSWENSON<br>2010/03/24<br>APPR:MBANAKIS<br>2010/03/25 | <b>QUALITY SYMBOLS</b><br>▽=0<br>▽=0 | <b>GENERAL TOLERANCES (UNLESS SPECIFIED)</b>                                                                                  |  | <b>DIMENSION STYLE</b><br><b>MM ONLY</b>        |  | <b>SCALE</b><br>2:1                                                                                           | <b>DESIGN UNITS</b><br>METRIC | <b>THIRD ANGLE PROJECTION</b>  |
|                                                                                                                                           |                                      | mm      INCH                                                                                                                  |  | DRAWN BY      DATE<br>KLANG      02/09/05       |  | <b>TITLE</b><br>I-PASS R/A CONNECTOR<br>INTERNAL ASSY W/SHELL<br>0.8MM PITCH I/O<br><b>MOLEX INCORPORATED</b> |                               |                                |
|                                                                                                                                           |                                      | 4 PLACES ± --- ± ---<br>3 PLACES ± --- ± ---<br>2 PLACES ± 0.13 ± ---<br>1 PLACE ± 0.25 ± ---                                 |  | CHECKED BY      DATE<br>JSWENSON      02/09/05  |  |                                                                                                               |                               |                                |
|                                                                                                                                           |                                      | ANGULAR ±1/2°                                                                                                                 |  | APPROVED BY      DATE<br>MBANAKIS      02/02/05 |  |                                                                                                               |                               |                                |
|                                                                                                                                           |                                      | <b>DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS</b>                                                                   |  | <b>SEE CHART</b>                                |  | <b>MATERIAL NO.</b><br>SD-75783-001                                                                           |                               | <b>DOCUMENT NO.</b><br>6 OF 12 |
| <b>SIZE</b><br>C                                                                                                                          |                                      | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION |  |                                                 |  |                                                                                                               |                               |                                |



50 CIRCUIT ITEM NUMBERS

| CIRCUIT SIZE | ITEM NUMBER | PLATING OPTION | SHELL PCB OPTION | SHELL KEY OPTION |
|--------------|-------------|----------------|------------------|------------------|
| 50           | 75783-0207  | OPTION 1       | RETENTION        | LEFT             |
| 50           | 75783-0208  | OPTION 1       | RETENTION        | RIGHT            |
| 50           | 75783-0209  | OPTION 1       | RETENTION        | DUAL             |
| 50           | 75783-0210  | OPTION 1       | SMT              | LEFT             |
| 50           | 75783-0211  | OPTION 1       | SMT              | RIGHT            |
| 50           | 75783-0212  | OPTION 1       | SMT              | DUAL             |
| 50           | 75783-0219  | OPTION 2       | RETENTION        | LEFT             |
| 50           | 75783-0220  | OPTION 2       | RETENTION        | RIGHT            |
| 50           | 75783-0221  | OPTION 2       | RETENTION        | DUAL             |
| 50           | 75783-0222  | OPTION 2       | SMT              | LEFT             |
| 50           | 75783-0223  | OPTION 2       | SMT              | RIGHT            |
| 50           | 75783-0224  | OPTION 2       | SMT              | DUAL             |
| 50           | 75783-0225  | OPTION 1       | RETENTION        | UNIVERSAL        |
| 50           | 75783-0226  | OPTION 1       | SMT              | UNIVERSAL        |
| 50           | 75783-0227  | OPTION 2       | RETENTION        | UNIVERSAL        |
| 50           | 75783-0228  | OPTION 2       | SMT              | UNIVERSAL        |
| 50           | 75783-0229  | OPTION 1       | T/H 1.96         | LEFT             |
| 50           | 75783-0230  | OPTION 1       | T/H 1.96         | RIGHT            |
| 50           | 75783-0231  | OPTION 1       | T/H 1.96         | DUAL             |
| 50           | 75783-0232  | OPTION 1       | T/H 1.96         | UNIVERSAL        |
| 50           | 75783-0233  | OPTION 2       | T/H 1.96         | LEFT             |
| 50           | 75783-0234  | OPTION 2       | T/H 1.96         | RIGHT            |
| 50           | 75783-0235  | OPTION 2       | T/H 1.96         | DUAL             |
| 50           | 75783-0236  | OPTION 2       | T/H 1.96         | UNIVERSAL        |

| CIRCUIT SIZE | ITEM NUMBER | PLATING OPTION | SHELL PCB OPTION | SHELL KEY OPTION |
|--------------|-------------|----------------|------------------|------------------|
| 50           | 75783-0237  | OPTION 1       | T/H 2.79         | LEFT             |
| 50           | 75783-0238  | OPTION 1       | T/H 2.79         | RIGHT            |
| 50           | 75783-0239  | OPTION 1       | T/H 2.79         | DUAL             |
| 50           | 75783-0240  | OPTION 1       | T/H 2.79         | UNIVERSAL        |
| 50           | 75783-0241  | OPTION 2       | T/H 2.79         | LEFT             |
| 50           | 75783-0242  | OPTION 2       | T/H 2.79         | RIGHT            |
| 50           | 75783-0243  | OPTION 2       | T/H 2.79         | DUAL             |
| 50           | 75783-0244  | OPTION 2       | T/H 2.79         | UNIVERSAL        |
| 50           | 75783-0245  | OPTION 1       | T/H 3.18         | LEFT             |
| 50           | 75783-0246  | OPTION 1       | T/H 3.18         | RIGHT            |
| 50           | 75783-0247  | OPTION 1       | T/H 3.18         | DUAL             |
| 50           | 75783-0248  | OPTION 1       | T/H 3.18         | UNIVERSAL        |
| 50           | 75783-0249  | OPTION 2       | T/H 3.18         | LEFT             |
| 50           | 75783-0250  | OPTION 2       | T/H 3.18         | RIGHT            |
| 50           | 75783-0251  | OPTION 2       | T/H 3.18         | DUAL             |
| 50           | 75783-0252  | OPTION 2       | T/H 3.18         | UNIVERSAL        |

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|                                                                                                                                          |                               |                                                            |  |                            |                  |                                                                                                                                  |                          |                        |  |  |
|------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|------------------------------------------------------------|--|----------------------------|------------------|----------------------------------------------------------------------------------------------------------------------------------|--------------------------|------------------------|--|--|
| SEE SHEET 1<br>EC NO: UCP2010-1913<br>2010/02/03<br>DRAWN BY<br>DRWN:KLANG<br>2010/03/24<br>CHKD:JSWENSON<br>2010/03/25<br>APPR:MBANAKIS | QUALITY SYMBOLS<br>▽=0<br>▽=0 | GENERAL TOLERANCES (UNLESS SPECIFIED)                      |  | DIMENSION STYLE<br>MM ONLY |                  | SCALE<br>2:1                                                                                                                     | DESIGN UNITS<br>METRIC   | THIRD ANGLE PROJECTION |  |  |
|                                                                                                                                          |                               |                                                            |  | DRAWN BY<br>KLANG          | DATE<br>02/09/05 | TITLE<br>I-PASS R/A CONNECTOR<br>INTERNAL ASSY W/SHELL<br>0.8MM PITCH I/O                                                        |                          |                        |  |  |
|                                                                                                                                          |                               |                                                            |  | CHECKED BY<br>JSWENSON     | DATE<br>02/09/05 |                                                                                                                                  |                          |                        |  |  |
|                                                                                                                                          |                               |                                                            |  | APPROVED BY<br>MBANAKIS    |                  | DATE<br>02/02/05                                                                                                                 | MOLEX MOLEX INCORPORATED |                        |  |  |
|                                                                                                                                          |                               |                                                            |  | MATERIAL NO.               |                  | DOCUMENT NO.<br>SD-75783-001                                                                                                     |                          |                        |  |  |
| D1                                                                                                                                       | REV                           | DRAFT WHERE APPLICABLE<br>MUST REMAIN<br>WITHIN DIMENSIONS |  | SEE CHART                  |                  | SHEET NO.<br>7 OF 12                                                                                                             |                          |                        |  |  |
|                                                                                                                                          |                               |                                                            |  | SIZE<br>C                  |                  | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX<br>INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION |                          |                        |  |  |

# 68 CIRCUIT ITEM NUMBERS

| CIRCUIT SIZE | ITEM NUMBER | PLATING OPTION | SHELL PCB OPTION | SHELL KEY OPTION |
|--------------|-------------|----------------|------------------|------------------|
| 68           | 75783-0307  | OPTION 1       | RETENTION        | LEFT             |
| 68           | 75783-0308  | OPTION 1       | RETENTION        | RIGHT            |
| 68           | 75783-0309  | OPTION 1       | RETENTION        | DUAL             |
| 68           | 75783-0310  | OPTION 1       | SMT              | LEFT             |
| 68           | 75783-0311  | OPTION 1       | SMT              | RIGHT            |
| 68           | 75783-0312  | OPTION 1       | SMT              | DUAL             |
| 68           | 75783-0319  | OPTION 2       | RETENTION        | LEFT             |
| 68           | 75783-0320  | OPTION 2       | RETENTION        | RIGHT            |
| 68           | 75783-0321  | OPTION 2       | RETENTION        | DUAL             |
| 68           | 75783-0322  | OPTION 2       | SMT              | LEFT             |
| 68           | 75783-0323  | OPTION 2       | SMT              | RIGHT            |
| 68           | 75783-0324  | OPTION 2       | SMT              | DUAL             |
| 68           | 75783-0325  | OPTION 1       | RETENTION        | UNIVERSAL        |
| 68           | 75783-0326  | OPTION 1       | SMT              | UNIVERSAL        |
| 68           | 75783-0327  | OPTION 2       | RETENTION        | UNIVERSAL        |
| 68           | 75783-0328  | OPTION 2       | SMT              | UNIVERSAL        |
| 68           | 75783-0329  | OPTION 1       | T/H 1.96         | LEFT             |
| 68           | 75783-0330  | OPTION 1       | T/H 1.96         | RIGHT            |
| 68           | 75783-0331  | OPTION 1       | T/H 1.96         | DUAL             |
| 68           | 75783-0332  | OPTION 1       | T/H 1.96         | UNIVERSAL        |
| 68           | 75783-0333  | OPTION 2       | T/H 1.96         | LEFT             |
| 68           | 75783-0334  | OPTION 2       | T/H 1.96         | RIGHT            |
| 68           | 75783-0335  | OPTION 2       | T/H 1.96         | DUAL             |
| 68           | 75783-0336  | OPTION 2       | T/H 1.96         | UNIVERSAL        |

| CIRCUIT SIZE | ITEM NUMBER | PLATING OPTION | SHELL PCB OPTION | SHELL KEY OPTION |
|--------------|-------------|----------------|------------------|------------------|
| 68           | 75783-0337  | OPTION 1       | T/H 2.79         | LEFT             |
| 68           | 75783-0338  | OPTION 1       | T/H 2.79         | RIGHT            |
| 68           | 75783-0339  | OPTION 1       | T/H 2.79         | DUAL             |
| 68           | 75783-0340  | OPTION 1       | T/H 2.79         | UNIVERSAL        |
| 68           | 75783-0341  | OPTION 2       | T/H 2.79         | LEFT             |
| 68           | 75783-0342  | OPTION 2       | T/H 2.79         | RIGHT            |
| 68           | 75783-0343  | OPTION 2       | T/H 2.79         | DUAL             |
| 68           | 75783-0344  | OPTION 2       | T/H 2.79         | UNIVERSAL        |
| 68           | 75783-0345  | OPTION 1       | T/H 3.18         | LEFT             |
| 68           | 75783-0346  | OPTION 1       | T/H 3.18         | RIGHT            |
| 68           | 75783-0347  | OPTION 1       | T/H 3.18         | DUAL             |
| 68           | 75783-0348  | OPTION 1       | T/H 3.18         | UNIVERSAL        |
| 68           | 75783-0349  | OPTION 2       | T/H 3.18         | LEFT             |
| 68           | 75783-0350  | OPTION 2       | T/H 3.18         | RIGHT            |
| 68           | 75783-0351  | OPTION 2       | T/H 3.18         | DUAL             |
| 68           | 75783-0352  | OPTION 2       | T/H 3.18         | UNIVERSAL        |

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| <b>SEE SHEET 1</b><br>EC NO: UCP2010-1913<br>2010/02/03<br>DRWN:KLANG<br>2010/03/24<br>CHKD:JSWENSON<br>2010/03/25<br>APPR:MBANAK I S | QUALITY SYMBOLS<br>▼=0<br>▽=0 | GENERAL TOLERANCES (UNLESS SPECIFIED)                                                                                                                                                                                                                                                                                   |       | DIMENSION STYLE<br><b>MM ONLY</b> |    | SCALE<br><b>2:1</b>                                                                                                              | DESIGN UNITS<br><b>METRIC</b> | THIRD ANGLE PROJECTION |       |          |       |       |          |        |       |         |        |       |                                                                                                                                                                                                                                                                                                               |  |          |      |       |          |            |      |          |          |             |      |            |          |                                                                                                                                                                                                                                                                                                                                                                                                           |  |  |  |       |  |                                                                  |  |                          |  |              |  |              |  |           |  |         |  |
|---------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|-----------------------------------|----|----------------------------------------------------------------------------------------------------------------------------------|-------------------------------|------------------------|-------|----------|-------|-------|----------|--------|-------|---------|--------|-------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|----------|------|-------|----------|------------|------|----------|----------|-------------|------|------------|----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|--|-------|--|------------------------------------------------------------------|--|--------------------------|--|--------------|--|--------------|--|-----------|--|---------|--|
|                                                                                                                                       |                               | <table border="1"> <tr> <th></th> <th>mm</th> <th>INCH</th> </tr> <tr> <td>4 PLACES</td> <td>± ---</td> <td>± ---</td> </tr> <tr> <td>3 PLACES</td> <td>± ---</td> <td>± ---</td> </tr> <tr> <td>2 PLACES</td> <td>± 0.13</td> <td>± ---</td> </tr> <tr> <td>1 PLACE</td> <td>± 0.25</td> <td>± ---</td> </tr> </table> |       |                                   | mm | INCH                                                                                                                             | 4 PLACES                      | ± ---                  | ± --- | 3 PLACES | ± --- | ± --- | 2 PLACES | ± 0.13 | ± --- | 1 PLACE | ± 0.25 | ± --- | <table border="1"> <tr> <td>DRAWN BY</td> <td>DATE</td> </tr> <tr> <td>KLANG</td> <td>02/09/05</td> </tr> <tr> <td>CHECKED BY</td> <td>DATE</td> </tr> <tr> <td>JSWENSON</td> <td>02/09/05</td> </tr> <tr> <td>APPROVED BY</td> <td>DATE</td> </tr> <tr> <td>MBANAK I S</td> <td>02/02/05</td> </tr> </table> |  | DRAWN BY | DATE | KLANG | 02/09/05 | CHECKED BY | DATE | JSWENSON | 02/09/05 | APPROVED BY | DATE | MBANAK I S | 02/02/05 | <table border="1"> <tr> <td colspan="2">TITLE</td> </tr> <tr> <td colspan="2">I-PASS R/A CONNECTOR<br/>INTERNAL ASSY W/SHELL<br/>0.8MM PITCH I/O</td> </tr> <tr> <td colspan="2">MOLEX MOLEX INCORPORATED</td> </tr> <tr> <td colspan="2">DOCUMENT NO.</td> </tr> <tr> <td colspan="2">SD-75783-001</td> </tr> <tr> <td colspan="2">SHEET NO.</td> </tr> <tr> <td colspan="2">8 OF 12</td> </tr> </table> |  |  |  | TITLE |  | I-PASS R/A CONNECTOR<br>INTERNAL ASSY W/SHELL<br>0.8MM PITCH I/O |  | MOLEX MOLEX INCORPORATED |  | DOCUMENT NO. |  | SD-75783-001 |  | SHEET NO. |  | 8 OF 12 |  |
|                                                                                                                                       |                               |                                                                                                                                                                                                                                                                                                                         | mm    | INCH                              |    |                                                                                                                                  |                               |                        |       |          |       |       |          |        |       |         |        |       |                                                                                                                                                                                                                                                                                                               |  |          |      |       |          |            |      |          |          |             |      |            |          |                                                                                                                                                                                                                                                                                                                                                                                                           |  |  |  |       |  |                                                                  |  |                          |  |              |  |              |  |           |  |         |  |
|                                                                                                                                       |                               | 4 PLACES                                                                                                                                                                                                                                                                                                                | ± --- | ± ---                             |    |                                                                                                                                  |                               |                        |       |          |       |       |          |        |       |         |        |       |                                                                                                                                                                                                                                                                                                               |  |          |      |       |          |            |      |          |          |             |      |            |          |                                                                                                                                                                                                                                                                                                                                                                                                           |  |  |  |       |  |                                                                  |  |                          |  |              |  |              |  |           |  |         |  |
| 3 PLACES                                                                                                                              | ± ---                         | ± ---                                                                                                                                                                                                                                                                                                                   |       |                                   |    |                                                                                                                                  |                               |                        |       |          |       |       |          |        |       |         |        |       |                                                                                                                                                                                                                                                                                                               |  |          |      |       |          |            |      |          |          |             |      |            |          |                                                                                                                                                                                                                                                                                                                                                                                                           |  |  |  |       |  |                                                                  |  |                          |  |              |  |              |  |           |  |         |  |
| 2 PLACES                                                                                                                              | ± 0.13                        | ± ---                                                                                                                                                                                                                                                                                                                   |       |                                   |    |                                                                                                                                  |                               |                        |       |          |       |       |          |        |       |         |        |       |                                                                                                                                                                                                                                                                                                               |  |          |      |       |          |            |      |          |          |             |      |            |          |                                                                                                                                                                                                                                                                                                                                                                                                           |  |  |  |       |  |                                                                  |  |                          |  |              |  |              |  |           |  |         |  |
| 1 PLACE                                                                                                                               | ± 0.25                        | ± ---                                                                                                                                                                                                                                                                                                                   |       |                                   |    |                                                                                                                                  |                               |                        |       |          |       |       |          |        |       |         |        |       |                                                                                                                                                                                                                                                                                                               |  |          |      |       |          |            |      |          |          |             |      |            |          |                                                                                                                                                                                                                                                                                                                                                                                                           |  |  |  |       |  |                                                                  |  |                          |  |              |  |              |  |           |  |         |  |
| DRAWN BY                                                                                                                              | DATE                          |                                                                                                                                                                                                                                                                                                                         |       |                                   |    |                                                                                                                                  |                               |                        |       |          |       |       |          |        |       |         |        |       |                                                                                                                                                                                                                                                                                                               |  |          |      |       |          |            |      |          |          |             |      |            |          |                                                                                                                                                                                                                                                                                                                                                                                                           |  |  |  |       |  |                                                                  |  |                          |  |              |  |              |  |           |  |         |  |
| KLANG                                                                                                                                 | 02/09/05                      |                                                                                                                                                                                                                                                                                                                         |       |                                   |    |                                                                                                                                  |                               |                        |       |          |       |       |          |        |       |         |        |       |                                                                                                                                                                                                                                                                                                               |  |          |      |       |          |            |      |          |          |             |      |            |          |                                                                                                                                                                                                                                                                                                                                                                                                           |  |  |  |       |  |                                                                  |  |                          |  |              |  |              |  |           |  |         |  |
| CHECKED BY                                                                                                                            | DATE                          |                                                                                                                                                                                                                                                                                                                         |       |                                   |    |                                                                                                                                  |                               |                        |       |          |       |       |          |        |       |         |        |       |                                                                                                                                                                                                                                                                                                               |  |          |      |       |          |            |      |          |          |             |      |            |          |                                                                                                                                                                                                                                                                                                                                                                                                           |  |  |  |       |  |                                                                  |  |                          |  |              |  |              |  |           |  |         |  |
| JSWENSON                                                                                                                              | 02/09/05                      |                                                                                                                                                                                                                                                                                                                         |       |                                   |    |                                                                                                                                  |                               |                        |       |          |       |       |          |        |       |         |        |       |                                                                                                                                                                                                                                                                                                               |  |          |      |       |          |            |      |          |          |             |      |            |          |                                                                                                                                                                                                                                                                                                                                                                                                           |  |  |  |       |  |                                                                  |  |                          |  |              |  |              |  |           |  |         |  |
| APPROVED BY                                                                                                                           | DATE                          |                                                                                                                                                                                                                                                                                                                         |       |                                   |    |                                                                                                                                  |                               |                        |       |          |       |       |          |        |       |         |        |       |                                                                                                                                                                                                                                                                                                               |  |          |      |       |          |            |      |          |          |             |      |            |          |                                                                                                                                                                                                                                                                                                                                                                                                           |  |  |  |       |  |                                                                  |  |                          |  |              |  |              |  |           |  |         |  |
| MBANAK I S                                                                                                                            | 02/02/05                      |                                                                                                                                                                                                                                                                                                                         |       |                                   |    |                                                                                                                                  |                               |                        |       |          |       |       |          |        |       |         |        |       |                                                                                                                                                                                                                                                                                                               |  |          |      |       |          |            |      |          |          |             |      |            |          |                                                                                                                                                                                                                                                                                                                                                                                                           |  |  |  |       |  |                                                                  |  |                          |  |              |  |              |  |           |  |         |  |
| TITLE                                                                                                                                 |                               |                                                                                                                                                                                                                                                                                                                         |       |                                   |    |                                                                                                                                  |                               |                        |       |          |       |       |          |        |       |         |        |       |                                                                                                                                                                                                                                                                                                               |  |          |      |       |          |            |      |          |          |             |      |            |          |                                                                                                                                                                                                                                                                                                                                                                                                           |  |  |  |       |  |                                                                  |  |                          |  |              |  |              |  |           |  |         |  |
| I-PASS R/A CONNECTOR<br>INTERNAL ASSY W/SHELL<br>0.8MM PITCH I/O                                                                      |                               |                                                                                                                                                                                                                                                                                                                         |       |                                   |    |                                                                                                                                  |                               |                        |       |          |       |       |          |        |       |         |        |       |                                                                                                                                                                                                                                                                                                               |  |          |      |       |          |            |      |          |          |             |      |            |          |                                                                                                                                                                                                                                                                                                                                                                                                           |  |  |  |       |  |                                                                  |  |                          |  |              |  |              |  |           |  |         |  |
| MOLEX MOLEX INCORPORATED                                                                                                              |                               |                                                                                                                                                                                                                                                                                                                         |       |                                   |    |                                                                                                                                  |                               |                        |       |          |       |       |          |        |       |         |        |       |                                                                                                                                                                                                                                                                                                               |  |          |      |       |          |            |      |          |          |             |      |            |          |                                                                                                                                                                                                                                                                                                                                                                                                           |  |  |  |       |  |                                                                  |  |                          |  |              |  |              |  |           |  |         |  |
| DOCUMENT NO.                                                                                                                          |                               |                                                                                                                                                                                                                                                                                                                         |       |                                   |    |                                                                                                                                  |                               |                        |       |          |       |       |          |        |       |         |        |       |                                                                                                                                                                                                                                                                                                               |  |          |      |       |          |            |      |          |          |             |      |            |          |                                                                                                                                                                                                                                                                                                                                                                                                           |  |  |  |       |  |                                                                  |  |                          |  |              |  |              |  |           |  |         |  |
| SD-75783-001                                                                                                                          |                               |                                                                                                                                                                                                                                                                                                                         |       |                                   |    |                                                                                                                                  |                               |                        |       |          |       |       |          |        |       |         |        |       |                                                                                                                                                                                                                                                                                                               |  |          |      |       |          |            |      |          |          |             |      |            |          |                                                                                                                                                                                                                                                                                                                                                                                                           |  |  |  |       |  |                                                                  |  |                          |  |              |  |              |  |           |  |         |  |
| SHEET NO.                                                                                                                             |                               |                                                                                                                                                                                                                                                                                                                         |       |                                   |    |                                                                                                                                  |                               |                        |       |          |       |       |          |        |       |         |        |       |                                                                                                                                                                                                                                                                                                               |  |          |      |       |          |            |      |          |          |             |      |            |          |                                                                                                                                                                                                                                                                                                                                                                                                           |  |  |  |       |  |                                                                  |  |                          |  |              |  |              |  |           |  |         |  |
| 8 OF 12                                                                                                                               |                               |                                                                                                                                                                                                                                                                                                                         |       |                                   |    |                                                                                                                                  |                               |                        |       |          |       |       |          |        |       |         |        |       |                                                                                                                                                                                                                                                                                                               |  |          |      |       |          |            |      |          |          |             |      |            |          |                                                                                                                                                                                                                                                                                                                                                                                                           |  |  |  |       |  |                                                                  |  |                          |  |              |  |              |  |           |  |         |  |
| ANGULAR ±1/2°                                                                                                                         |                               | MATERIAL NO.                                                                                                                                                                                                                                                                                                            |       | SIZE                              |    | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX<br>INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION |                               |                        |       |          |       |       |          |        |       |         |        |       |                                                                                                                                                                                                                                                                                                               |  |          |      |       |          |            |      |          |          |             |      |            |          |                                                                                                                                                                                                                                                                                                                                                                                                           |  |  |  |       |  |                                                                  |  |                          |  |              |  |              |  |           |  |         |  |
| DRAFT WHERE APPLICABLE<br>MUST REMAIN<br>WITHIN DIMENSIONS                                                                            |                               | SEE CHART                                                                                                                                                                                                                                                                                                               |       | C                                 |    |                                                                                                                                  |                               |                        |       |          |       |       |          |        |       |         |        |       |                                                                                                                                                                                                                                                                                                               |  |          |      |       |          |            |      |          |          |             |      |            |          |                                                                                                                                                                                                                                                                                                                                                                                                           |  |  |  |       |  |                                                                  |  |                          |  |              |  |              |  |           |  |         |  |

## -



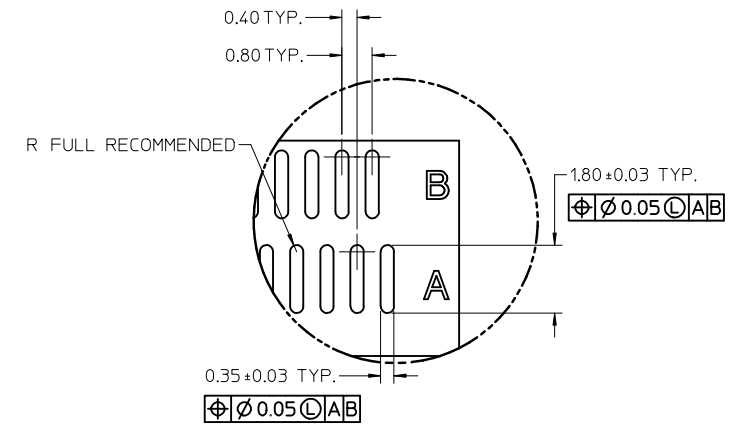
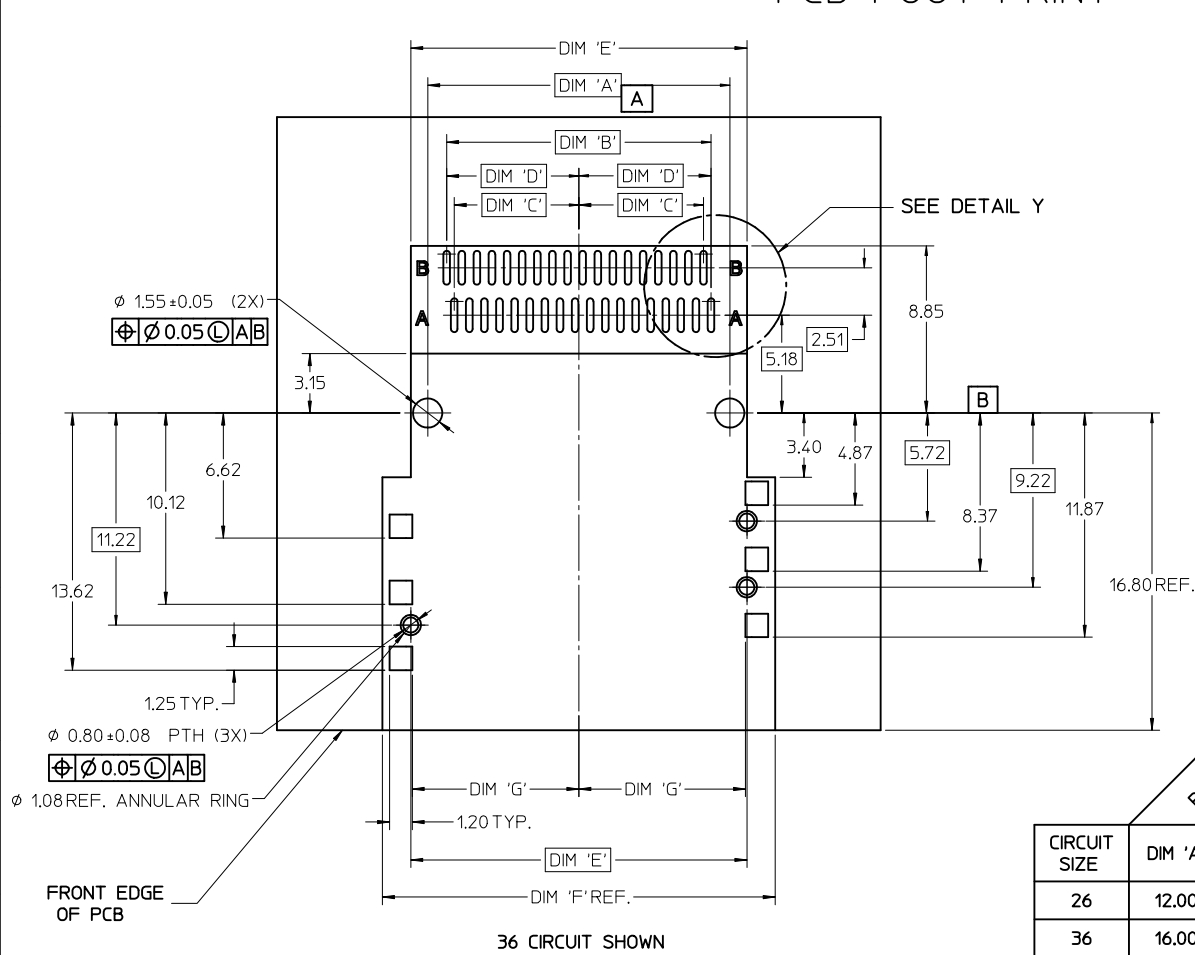
F

E

E

**A**

RIGHT ANGLE CONNECTOR  
WITH SMT SHELL  
PCB FOOT PRINT



DETAIL Y  
SCALE 10:1

|              | PEG TO PEG | FIRST PAD TO LAST PAD | CENTERLINE TO PAD | CENTERLINE TO PAD | CONNECTOR WIDTH SHELL PEG TO PEG | SHELL FOOTPRINT WIDTH | CENTERLINE TO PAD EDGE |
|--------------|------------|-----------------------|-------------------|-------------------|----------------------------------|-----------------------|------------------------|
| CIRCUIT SIZE | DIM 'A'    | DIM 'B'               | DIM 'C'           | DIM 'D'           | DIM 'E'                          | DIM 'F'               | DIM 'G'                |
| 26           | 12.00      | 10.00                 | 4.60              | 5.00              | 13.80                            | 16.80                 | 6.825                  |
| 36           | 16.00      | 14.00                 | 6.60              | 7.00              | 17.80                            | 20.80                 | 8.825                  |
| 50           | 21.60      | 19.60                 | 9.40              | 9.80              | 23.40                            | 26.40                 | 11.625                 |
| 68           | 28.80      | 26.80                 | 13.00             | 13.40             | 30.60                            | 33.60                 | 15.225                 |

iPass™ IS A TRADEMARK OF MOLEX

SEE SHEET 1

EC NO: UCP2010-1913

DRWN: KLANG

CHKD: JSWENSON

APPR: MBANAKIS

REV

2010/02/03

2010/03/24

2010/03/25

DESCRIPTION

QUALITY SYMBOLS

▽=0

▽=0

GENERAL TOLERANCES (UNLESS SPECIFIED)

|          | mm     | INCH  |
|----------|--------|-------|
| 4 PLACES | ± ---  | ± --- |
| 3 PLACES | ± ---  | ± --- |
| 2 PLACES | ± 0.13 | ± --- |
| 1 PLACE  | ± 0.25 | ± --- |

ANGULAR ±1/2°

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

DIMENSION STYLE

MM ONLY

|             |          |
|-------------|----------|
| DRAWN BY    | DATE     |
| KLANK       | 02/09/05 |
| CHECKED BY  | DATE     |
| JSWENSON    | 02/09/05 |
| APPROVED BY | DATE     |
| MBANAKIS    | 02/02/05 |

MATERIAL NO.

SEE CHART

SIZE

SCALE

5:1

DESIGN UNITS

METRIC

THIRD ANGLE PROJECTION

DOCUMENT NO.

SD-75783-001

SHEET NO.

10 OF 12

TITLE

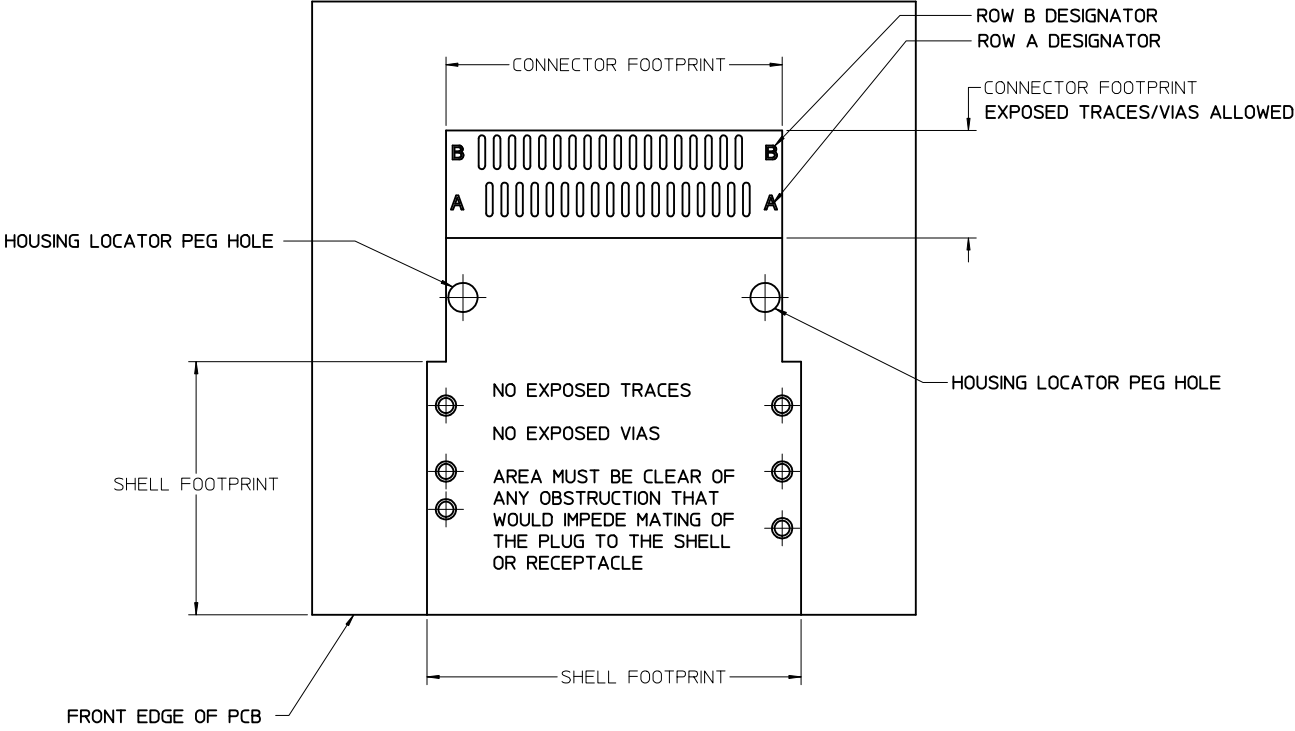
I-PASS R/A CONNECTOR  
INTERNAL ASSY W/SHELL  
0.8MM PITCH I/O

MOLEX

MOLEX INCORPORATED

THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX  
INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION

RIGHT ANGLE CONNECTOR WITH SHELL  
PCB FOOT PRINT DESCRIPTIONS



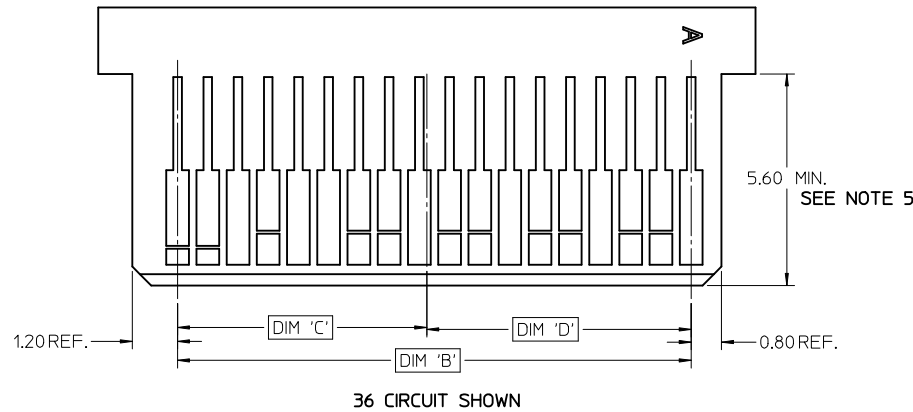
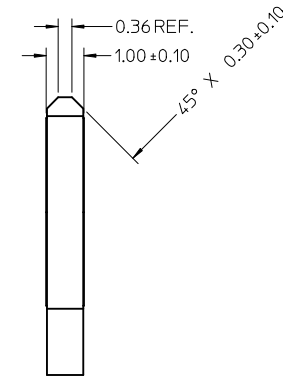
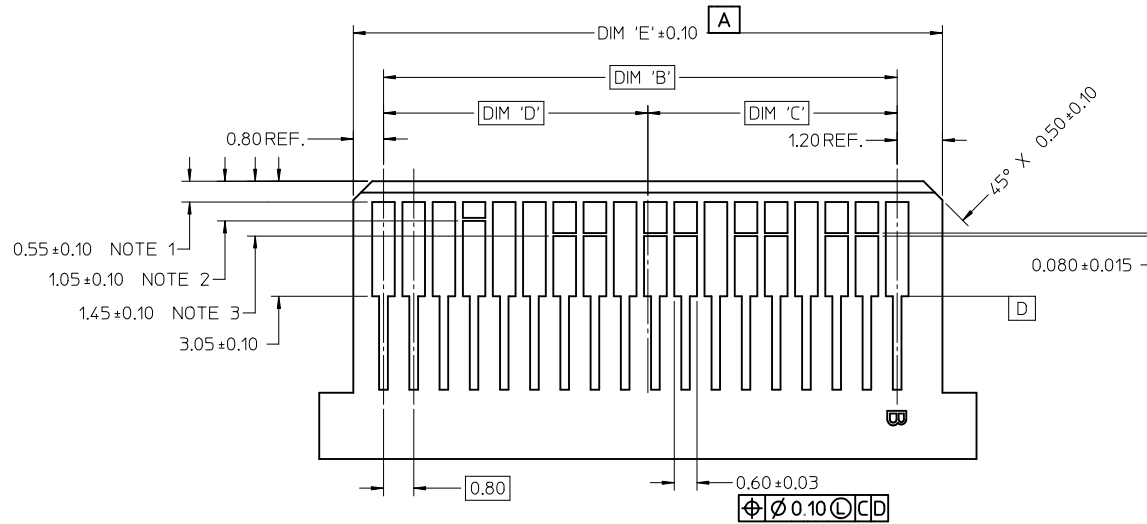
36 CIRCUIT SHOWN

NOTE: IF RECEPTACLE AND SHELL  
ARE NOT PLACED AT EDGE  
OF PCB AS SHOWN, ADDITIONAL  
CLEARANCE IS NEEDED FOR  
BODY OF PLUG AND CABLE

iPass™ IS A TRADEMARK OF MOLEX

|                                                                                                                                  |             |                                    |                                                            |        |                            |                        |                                                                                                                                  |                                                                           |                                                                                                              |                       |  |
|----------------------------------------------------------------------------------------------------------------------------------|-------------|------------------------------------|------------------------------------------------------------|--------|----------------------------|------------------------|----------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------|-----------------------|--|
| SEE SHEET 1<br>EC NO: UCP2010-1913<br>DRAWN BY: KLKANG<br>CHKD: JSWENSON<br>2010/03/24<br>APPR: MBANAKIS<br>2010/03/25<br><br>D1 | DESCRIPTION | QUALITY SYMBOLS<br><br>▽=0<br>▽C=0 | GENERAL TOLERANCES (UNLESS SPECIFIED)                      |        | DIMENSION STYLE<br>MM ONLY |                        | SCALE<br>5:1                                                                                                                     | DESIGN UNITS<br>METRIC                                                    |  THIRD ANGLE PROJECTION |                       |  |
|                                                                                                                                  |             |                                    |                                                            | mm     | INCH                       | DRAWN BY<br>KLKANG     | DATE<br>02/09/05                                                                                                                 | TITLE<br>I-PASS R/A CONNECTOR<br>INTERNAL ASSY W/SHELL<br>0.8MM PITCH I/O |                                                                                                              |                       |  |
|                                                                                                                                  |             |                                    | 4 PLACES                                                   | ± ---  | ± ---                      | CHECKED BY<br>JSWENSON | DATE<br>02/09/05                                                                                                                 | MOLEX MOLEX INCORPORATED                                                  |                                                                                                              |                       |  |
|                                                                                                                                  |             |                                    | 3 PLACES                                                   | ± ---  | ± ---                      | APPROVED BY            | DATE                                                                                                                             |                                                                           |                                                                                                              |                       |  |
|                                                                                                                                  |             |                                    | 2 PLACES                                                   | ± 0.13 | ± ---                      | MBANAKIS               | 02/02/05                                                                                                                         |                                                                           |                                                                                                              |                       |  |
|                                                                                                                                  |             |                                    | 1 PLACE                                                    | ± 0.25 | ± ---                      | MATERIAL NO.           | DOCUMENT NO.                                                                                                                     |                                                                           |                                                                                                              |                       |  |
|                                                                                                                                  |             |                                    | ANGULAR ±1/2°                                              |        | SEE CHART                  |                        | SD-75783-001                                                                                                                     |                                                                           |                                                                                                              | SHEET NO.<br>11 OF 12 |  |
|                                                                                                                                  |             |                                    | DRAFT WHERE APPLICABLE<br>MUST REMAIN<br>WITHIN DIMENSIONS |        |                            |                        | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX<br>INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION |                                                                           |                                                                                                              |                       |  |

# MATING INTERFACE (FOR REFERENCE ONLY)



## 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 TOUNGE.

| CIRCUIT<br>SIZE | TERM/SIDE<br>'N' | DIM 'B' | DIM 'C' | DIM 'D' | DIM 'E' |
|-----------------|------------------|---------|---------|---------|---------|
| 26              | 13               | 9.60    | 4.60    | 5.00    | 11.60   |
| 36              | 18               | 13.60   | 6.60    | 7.00    | 15.60   |
| 50              | 25               | 19.20   | 9.40    | 9.80    | 21.20   |
| 68              | 34               | 26.40   | 13.00   | 13.40   | 28.40   |

|                                                                                   |            |             |                    |
|-----------------------------------------------------------------------------------|------------|-------------|--------------------|
| SEE SHEET 1<br>EC NO: UCP2010-1913<br>DRW:KLANG<br>CHKD:JSWENSON<br>APPR:MBANAKIS | 2010/02/03 | 2010/03/24  | 2010/03/25         |
|                                                                                   | REV        | DESCRIPTION | QUALITY<br>SYMBOLS |
|                                                                                   |            |             | ▽=0                |
|                                                                                   |            |             | ▽=0                |

| GENERAL TOLERANCES<br>(UNLESS SPECIFIED)                   |       |
|------------------------------------------------------------|-------|
| mm                                                         | INCH  |
| 4 PLACES ± ---                                             | ± --- |
| 3 PLACES ± ---                                             | ± --- |
| 2 PLACES ± 0.13                                            | ± --- |
| 1 PLACE ± 0.25                                             | ± --- |
| ANGULAR ± 1/2°                                             |       |
| DRAFT WHERE APPLICABLE<br>MUST REMAIN<br>WITHIN DIMENSIONS |       |

| DIMENSION STYLE<br>MM ONLY |          |
|----------------------------|----------|
| DRAWN BY                   | DATE     |
| KLANG                      | 02/09/05 |
| CHECKED BY                 | DATE     |
| JSWENSON                   | 02/09/05 |
| APPROVED BY                | DATE     |
| MBANAKIS                   | 02/02/05 |
| MATERIAL NO.               |          |
| SEE CHART                  |          |
| SIZE                       | C        |

|                                                                                                                 |                        |                                                                                                                 |
|-----------------------------------------------------------------------------------------------------------------|------------------------|-----------------------------------------------------------------------------------------------------------------|
| SCALE<br>10:1                                                                                                   | DESIGN UNITS<br>METRIC |  THIRD ANGLE<br>PROJECTION |
| TITLE<br>I-PASS R/A CONNECTOR<br>INTERNAL ASSY W/SHELL<br>0.8MM PITCH I/O                                       |                        |                                                                                                                 |
|  MOLEX INCORPORATED        |                        |                                                                                                                 |
| DOCUMENT NO.<br>SD-75783-001                                                                                    |                        | SHEET NO.<br>12 OF 12                                                                                           |
| THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX<br>SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION |                        |                                                                                                                 |