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**Part Number:** [0757830155](#)  
**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), Through Hole Shell, Dual 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  
PCB Thickness Recommended (in) 0.140 In  
PCB Thickness Recommended (mm) 3.56 mm  
Packaging Type Embossed Tape on Reel  
Panel Mount No  
Pitch - Mating Interface (in) 0.031 In  
Pitch - Mating Interface (mm) 0.80 mm  
Pitch - Term. Interface (in) 0.031 In  
Pitch - Term. Interface (mm) 0.80 mm  
Plating min: Mating (µin) 15.2  
Plating min: Mating (µm) 0.38  
Plating min: Termination (µin) 101.6  
Plating min: Termination (µm) 2.54  
Polarized to Mating Part Yes  
Polarized to PCB Yes



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

**China RoHS**



**Need more information on product environmental compliance?**  
Email [productcompliance@molex.com](mailto:productcompliance@molex.com)  
For a multiple part number RoHS Certificate of Compliance, [click here](#)  
Please visit the [Contact Us](#) section for any non-product compliance questions.

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

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

|                                |                |
|--------------------------------|----------------|
| Ports                          | 1              |
| Surface Mount Compatible (SMC) | Yes            |
| 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            |

**Electrical**

|                               |                 |
|-------------------------------|-----------------|
| Current - Maximum per Contact | 0.5A            |
| Grounding to Panel            | None            |
| Shield Type                   | Full Shield     |
| Shielded                      | Yes             |
| Voltage - Maximum             | 30V AC (RMS)/DC |

**Material Info**

**Reference - Drawing Numbers**

|                           |              |
|---------------------------|--------------|
| Application Specification | AS-75783-001 |
| 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:

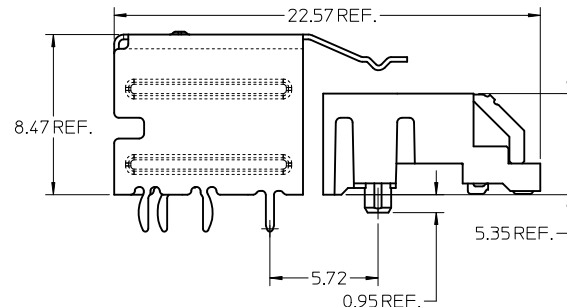
79575/74563/79576/74573/79536/74562/74569/74586

## 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  
DRWN:KLANG  
CHKD:JSWENSON  
2010/03/24  
APPR:MBANAKIS  
2010/03/25

QUALITY SYMBOLS  
=0  
=0

GENERAL TOLERANCES (UNLESS SPECIFIED)

|                    | mm         | INCH      |
|--------------------|------------|-----------|
| 4 PLACES           | $\pm$ ---  | $\pm$ --- |
| 3 PLACES           | $\pm$ ---  | $\pm$ --- |
| 2 PLACES           | $\pm$ 0.13 | $\pm$ --- |
| 1 PLACE            | $\pm$ 0.25 | $\pm$ --- |
| ANGULAR $\pm$ 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



## 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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| CIRCUIT SIZE | DIM 'D' |
|--------------|---------|
| 26           | 15.50   |
| 36           | 19.50   |
| 50           | 25.10   |
| 68           | 32.30   |

|                                                                                                                             |             |                                   |                                       |        |       |                            |  |                                                                                                                               |                                                                           |                           |  |  |
|-----------------------------------------------------------------------------------------------------------------------------|-------------|-----------------------------------|---------------------------------------|--------|-------|----------------------------|--|-------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------|---------------------------|--|--|
| SEE SHEET 1<br>EC NO: UCP2010-1913<br>2010/02/03<br>DRW:KLANG<br>CHKD:JSWENSON<br>2010/03/24<br>APPR:MBANAKIS<br>2010/03/25 | DESCRIPTION | QUALITY SYMBOLS<br><br>▽=0<br>▽=0 | GENERAL TOLERANCES (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 |                           |  |  |
|                                                                                                                             |             |                                   | 4 PLACES                              | ± ---  | ± --- | CHECKED BY<br>JSWENSON     |  | DATE<br>02/09/05                                                                                                              | MOLEX MOLEX INCORPORATED                                                  |                           |  |  |
|                                                                                                                             |             |                                   | 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 | ± --- | SEE CHART                  |  | SD-75783-001                                                                                                                  |                                                                           | 2 OF 12                   |  |  |
|                                                                                                                             |             |                                   | ANGULAR ±1/2°                         |        |       | SIZE                       |  | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX 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 D1 | DESCRIPTION | QUALITY SYMBOLS<br>▽=0<br>▽=0 | GENERAL TOLERANCES (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 |                           |  |
|                                                                                                                               |             |                               | 4 PLACES                                                   | ± ---  | ± ---                                                                                                                                   | CHECKED BY<br>JSWENSON    | DATE<br>02/09/05 | molex MOLEX INCORPORATED                                                  |                           |  |
|                                                                                                                               |             |                               | 3 PLACES                                                   | ± ---  | ± ---                                                                                                                                   | APPROVED BY<br>MBANAKIS   | DATE<br>02/02/05 |                                                                           |                           |  |
|                                                                                                                               |             |                               | 2 PLACES                                                   | ± 0.13 | ± ---                                                                                                                                   | MATERIAL NO.<br>SEE CHART |                  | DOCUMENT NO.<br>SD-75783-001                                              | SHEET NO.<br>3 OF 12      |  |
| 1 PLACE                                                                                                                       | ± 0.25      | ± ---                         | DRAFT WHERE APPLICABLE<br>MUST REMAIN<br>WITHIN DIMENSIONS |        | SIZE C THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX<br>INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION |                           |                  |                                                                           |                           |  |
|                                                                                                                               |             |                               | ANGULAR ±1/2°                                              |        |                                                                                                                                         |                           |                  |                                                                           |                           |  |

# KEYING OPTIONS



|                | UNIVERSAL SHELL | LEFT KEY SHELL | RIGHT KEY SHELL | DUAL KEY SHELL |
|----------------|-----------------|----------------|-----------------|----------------|
| NO KEY PLUG    | YES             | NO             | NO              | NO             |
| LEFT KEY PLUG  | YES             | YES            | NO              | NO             |
| RIGHT KEY PLUG | YES             | NO             | YES             | NO             |
| UNIVERSAL PLUG | YES             | YES            | YES             | YES            |

SEE SHEET 1  
EC NO: UCP2010-1913  
2010/02/03  
DRUNKLANG  
CHKD: JMWENSON  
2010/03/24  
APPR: MBANAKIS  
2010/03/25

QUALITY SYMBOLS  
▽=0  
▽=0

GENERAL TOLERANCES (UNLESS SPECIFIED)

|          | mm     | INCH    |
|----------|--------|---------|
| 4 PLACES | ± .005 | ± .0004 |
| 3 PLACES | ± .005 | ± .0004 |
| 2 PLACES | ± 0.13 | ± .005  |
| 1 PLACE  | ± 0.25 | ± .010  |

ANGULAR ±1/2°

DRAFT WHERE APPLICABLE  
MUST REMAIN  
WITHIN DIMENSIONS

DIMENSION STYLE  
MM ONLY

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

MATERIAL NO.

SIZE C

SCALE 2:1

DESIGN UNITS METRIC

THIRD ANGLE PROJECTION

DOCUMENT NO. SD-75783-001

SHEET NO. 4 OF 12

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

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

MOLEX INCORPORATED

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

EC NO: UCP2010-1913

2010/02/03

DRWN:KLANG

2010/03/24

CHKD:JSWENSON

2010/03/25

APPR:MBANAKIS

REV

D1

QUALITY SYMBOLS

▽=0

▽=0

GENERAL TOLERANCES (UNLESS SPECIFIED)

|          |        |         |
|----------|--------|---------|
|          | mm     | INCH    |
| 4 PLACES | ± .005 | ± .0004 |
| 3 PLACES | ± .005 | ± .0004 |
| 2 PLACES | ± 0.13 | ± .005  |
| 1 PLACE  | ± 0.25 | ± .010  |

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

SIZE

C

SCALE

2:1

DESIGN UNITS

METRIC

THIRD ANGLE PROJECTION

TITLE

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

MOLEX

MOLEX INCORPORATED

DOCUMENT NO.

SD-75783-001

SHEET NO.

5 OF 12

THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX 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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|                                                                                                     |                               |                                                                                                                                  |  |                            |                  |                                                                                                       |                        |                        |  |
|-----------------------------------------------------------------------------------------------------|-------------------------------|----------------------------------------------------------------------------------------------------------------------------------|--|----------------------------|------------------|-------------------------------------------------------------------------------------------------------|------------------------|------------------------|--|
| ENTER DESCRIPTION<br>EC NO: UCP2010-1913<br>DRAWN BY: DRWNLKANG<br>CHKD: JSWENSON<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<br>MOLEX MOLEX INCORPORATED |                        |                        |  |
|                                                                                                     |                               |                                                                                                                                  |  | CHECKED BY<br>JSWENSON     | DATE<br>02/09/05 |                                                                                                       |                        |                        |  |
|                                                                                                     |                               |                                                                                                                                  |  | APPROVED BY<br>MBANAKIS    | DATE<br>02/02/05 |                                                                                                       |                        |                        |  |
|                                                                                                     |                               |                                                                                                                                  |  | ANGULAR ±1/2°              |                  | MATERIAL NO.                                                                                          |                        | DOCUMENT NO.           |  |
| DRAFT WHERE APPLICABLE<br>MUST REMAIN<br>WITHIN DIMENSIONS                                          |                               | SEE CHART                                                                                                                        |  | SD-75783-001               |                  | 6 OF 12                                                                                               |                        |                        |  |
| SIZE<br>C                                                                                           |                               | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX<br>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>DRWN:KLANG<br>CHKD:JSWENSON<br>2010/03/24<br>APPR:MBANAKIS<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<br>MOLEX MOLEX INCORPORATED |                        |                        |  |
|                                                                                                                              |                               |                                                                                                                                  |  | CHECKED BY<br>JSWENSON     | DATE<br>02/09/05 |                                                                                                       |                        |                        |  |
|                                                                                                                              |                               |                                                                                                                                  |  | APPROVED BY<br>MBANAKIS    | 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               |                  | 7 OF 12                                                                                               |                        |                        |  |
| SIZE                                                                                                                         |                               | 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:MBANAKIS | 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                                                                                 |  |
|                                                                                                                                     |                               |                                       |  | DRAWN BY<br>KLANG                 |  | DATE<br>02/09/05    |                               | <b>I-PASS R/A CONNECTOR<br/>INTERNAL ASSY W/SHELL<br/>0.8MM PITCH I/O</b><br><b>MOLEX INCORPORATED</b> |  |
|                                                                                                                                     |                               |                                       |  | CHECKED BY<br>JSWENSON            |  | DATE<br>02/09/05    |                               |                                                                                                        |  |
|                                                                                                                                     |                               |                                       |  | APPROVED BY<br>MBANAKIS           |  | DATE<br>02/02/05    |                               |                                                                                                        |  |
|                                                                                                                                     |                               |                                       |  | MATERIAL NO.                      |  | DOCUMENT NO.        |                               | SHEET NO.<br>8 OF 12                                                                                   |  |

DRAFT WHERE APPLICABLE  
MUST REMAIN  
WITHIN DIMENSIONS

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

## -



F

E

E

**A**

0.40 TYP.

0.80 TYP.

DED

B

A

1.80 ± 0.03 TYP.

0.35 ± 0.03 TYP.

Feature Control Symbol:  $\text{Ø } 0.05 \text{ L AB}$

Technical drawing of a 36-circuit printed circuit board (PCB) showing dimensions and specifications.

**Dimensions:**

- Overall Dimensions:** DIM 'E' (Total Length), DIM 'F' REF. (Total Width), DIM 'G' (Internal Width), DIM 'A' (Top Section Length), DIM 'B' (Top Section Width), DIM 'C' (Top Section Spacing), DIM 'D' (Top Section Spacing).
- Vertical Dimensions (Left Side):** 13.62, 11.22, 10.12, 6.62, 3.15.
- Vertical Dimensions (Right Side):** 8.85, 5.18, 2.51, 3.40, 4.87, 5.72, 8.37, 9.22, 11.87, 16.80 REF.
- Horizontal Dimensions (Bottom):** 1.25 TYP., 1.20 TYP., DIM 'E' (Bottom Section Length).

**Specifications:**

- Top Section:**  $\phi 1.55 \pm 0.05$  (2X) (Top Section Hole Diameter),  $\phi 0.05$  (Top Section Hole Diameter), AB (Top Section Hole Position).
- Bottom Section:**  $\phi 0.80 \pm 0.08$  PTH (3X) (Bottom Section Hole Diameter),  $\phi 0.05$  (Bottom Section Hole Diameter), AB (Bottom Section Hole Position).
- Other:** .08 REF. ANNULAR RING (Annular Ring Thickness), SEE DETAIL Y (Detail Y Reference).

**FRONT EDGE OF PCB**

**36 CIRCUIT SHOWN**

| CIRCUIT SIZE | DIM 'E' |
|--------------|---------|
| 26           | 12.00   |
| 36           | 16.00   |

|                 |         | PEG TO PEG | FIRST PAD<br>TO LAST PAD | CENTERLINE<br>TO PAD | CENTERLINE<br>TO PAD | CONNECTOR WIDTH<br>SHELL PEG TO PEG | SHELL<br>FOOTPRINT WIDTH | CENTERLINE TO<br>PAD EDGE |
|-----------------|---------|------------|--------------------------|----------------------|----------------------|-------------------------------------|--------------------------|---------------------------|
| CIRCUIT<br>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                   |                           |

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| SEE SHEET 1<br>EC NO: UCP2010-4913<br>D1<br>DWGNO: KLANG<br>CHKD: JMWENSON<br>APPR: MBANAKI S                                 | 2010/02/03 | 2010/03/12/4 | 2010/03/25 | QUALITY SYMBOLS<br>▽=0<br>▽=0 | DESCRIPTION<br>DRAFT WHERE APPLICABLE<br>MUST REMAIN<br>WITHIN DIMENSIONS | GENERAL TOLERANCES<br>(UNLESS SPECIFIED)<br><table border="1"> <thead> <tr> <th></th> <th>mm</th> <th>INCH</th> </tr> </thead> <tbody> <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> <tr> <td colspan="3">ANGULAR ±1/2°</td> </tr> </tbody> </table> |  | mm | INCH | 4 PLACES | ±--- | ±--- | 3 PLACES | ±--- | ±--- | 2 PLACES | ±0.13 | ±--- | 1 PLACE | ±0.25 | ±--- | ANGULAR ±1/2° |  |  | DIMENSION STYLE<br><b>MM ONLY</b><br><table border="1"> <thead> <tr> <th>DRAWN BY</th> <th>DATE</th> </tr> </thead> <tbody> <tr> <td>KLANG</td> <td>02/09/05</td> </tr> <tr> <th>CHECKED BY</th> <th>DATE</th> </tr> <tr> <td>JMWENSON</td> <td>02/09/05</td> </tr> <tr> <th>APPROVED BY</th> <th>DATE</th> </tr> <tr> <td>MBANAKI S</td> <td>02/02/05</td> </tr> <tr> <th>MATERIAL NO.</th> <th></th> </tr> <tr> <td>SEE CHART</td> <td></td> </tr> </tbody> </table> | DRAWN BY | DATE | KLANG | 02/09/05 | CHECKED BY | DATE | JMWENSON | 02/09/05 | APPROVED BY | DATE | MBANAKI S | 02/02/05 | MATERIAL NO. |  | SEE CHART |  | SCALE<br><b>5:1</b> | DESIGN UNITS<br><b>METRIC</b> |  <b>THIRD ANGLE<br/>PROJECTION</b> | TITLE<br><b>I-PASS R/A CONNECTOR<br/>INTERNAL ASSY W/SHELL<br/>0.8MM PITCH I/O</b><br> <b>MOLEX INCORPORATED</b><br>DOCUMENT NO.<br><b>SD-75783-001</b> | SHEET NO.<br><b>10 OF 12</b> |
|-------------------------------------------------------------------------------------------------------------------------------|------------|--------------|------------|-------------------------------|---------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|----|------|----------|------|------|----------|------|------|----------|-------|------|---------|-------|------|---------------|--|--|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|------|-------|----------|------------|------|----------|----------|-------------|------|-----------|----------|--------------|--|-----------|--|---------------------|-------------------------------|-------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|
|                                                                                                                               |            | mm           | INCH       |                               |                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                             |  |    |      |          |      |      |          |      |      |          |       |      |         |       |      |               |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |          |      |       |          |            |      |          |          |             |      |           |          |              |  |           |  |                     |                               |                                                                                                                         |                                                                                                                                                                                                                                              |                              |
|                                                                                                                               | 4 PLACES   | ±---         | ±---       |                               |                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                             |  |    |      |          |      |      |          |      |      |          |       |      |         |       |      |               |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |          |      |       |          |            |      |          |          |             |      |           |          |              |  |           |  |                     |                               |                                                                                                                         |                                                                                                                                                                                                                                              |                              |
|                                                                                                                               | 3 PLACES   | ±---         | ±---       |                               |                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                             |  |    |      |          |      |      |          |      |      |          |       |      |         |       |      |               |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |          |      |       |          |            |      |          |          |             |      |           |          |              |  |           |  |                     |                               |                                                                                                                         |                                                                                                                                                                                                                                              |                              |
|                                                                                                                               | 2 PLACES   | ±0.13        | ±---       |                               |                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                             |  |    |      |          |      |      |          |      |      |          |       |      |         |       |      |               |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |          |      |       |          |            |      |          |          |             |      |           |          |              |  |           |  |                     |                               |                                                                                                                         |                                                                                                                                                                                                                                              |                              |
| 1 PLACE                                                                                                                       | ±0.25      | ±---         |            |                               |                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                             |  |    |      |          |      |      |          |      |      |          |       |      |         |       |      |               |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |          |      |       |          |            |      |          |          |             |      |           |          |              |  |           |  |                     |                               |                                                                                                                         |                                                                                                                                                                                                                                              |                              |
| ANGULAR ±1/2°                                                                                                                 |            |              |            |                               |                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                             |  |    |      |          |      |      |          |      |      |          |       |      |         |       |      |               |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |          |      |       |          |            |      |          |          |             |      |           |          |              |  |           |  |                     |                               |                                                                                                                         |                                                                                                                                                                                                                                              |                              |
| DRAWN BY                                                                                                                      | DATE       |              |            |                               |                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                             |  |    |      |          |      |      |          |      |      |          |       |      |         |       |      |               |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |          |      |       |          |            |      |          |          |             |      |           |          |              |  |           |  |                     |                               |                                                                                                                         |                                                                                                                                                                                                                                              |                              |
| KLANG                                                                                                                         | 02/09/05   |              |            |                               |                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                             |  |    |      |          |      |      |          |      |      |          |       |      |         |       |      |               |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |          |      |       |          |            |      |          |          |             |      |           |          |              |  |           |  |                     |                               |                                                                                                                         |                                                                                                                                                                                                                                              |                              |
| CHECKED BY                                                                                                                    | DATE       |              |            |                               |                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                             |  |    |      |          |      |      |          |      |      |          |       |      |         |       |      |               |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |          |      |       |          |            |      |          |          |             |      |           |          |              |  |           |  |                     |                               |                                                                                                                         |                                                                                                                                                                                                                                              |                              |
| JMWENSON                                                                                                                      | 02/09/05   |              |            |                               |                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                             |  |    |      |          |      |      |          |      |      |          |       |      |         |       |      |               |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |          |      |       |          |            |      |          |          |             |      |           |          |              |  |           |  |                     |                               |                                                                                                                         |                                                                                                                                                                                                                                              |                              |
| APPROVED BY                                                                                                                   | DATE       |              |            |                               |                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                             |  |    |      |          |      |      |          |      |      |          |       |      |         |       |      |               |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |          |      |       |          |            |      |          |          |             |      |           |          |              |  |           |  |                     |                               |                                                                                                                         |                                                                                                                                                                                                                                              |                              |
| MBANAKI S                                                                                                                     | 02/02/05   |              |            |                               |                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                             |  |    |      |          |      |      |          |      |      |          |       |      |         |       |      |               |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |          |      |       |          |            |      |          |          |             |      |           |          |              |  |           |  |                     |                               |                                                                                                                         |                                                                                                                                                                                                                                              |                              |
| MATERIAL NO.                                                                                                                  |            |              |            |                               |                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                             |  |    |      |          |      |      |          |      |      |          |       |      |         |       |      |               |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |          |      |       |          |            |      |          |          |             |      |           |          |              |  |           |  |                     |                               |                                                                                                                         |                                                                                                                                                                                                                                              |                              |
| SEE CHART                                                                                                                     |            |              |            |                               |                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                             |  |    |      |          |      |      |          |      |      |          |       |      |         |       |      |               |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |          |      |       |          |            |      |          |          |             |      |           |          |              |  |           |  |                     |                               |                                                                                                                         |                                                                                                                                                                                                                                              |                              |
| 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: KLANG<br>CHKD: JSWENSON<br>APPR: MBANAKIS | 2010/02/03<br>2010/03/24<br>2010/03/25 | QUALITY SYMBOLS<br><br>▽=0<br>▽=0 | DESCRIPTION | GENERAL TOLERANCES (UNLESS SPECIFIED)                |      | DIMENSION STYLE                                                  |        | SCALE                                                                                                                         | DESIGN UNITS |  THIRD ANGLE PROJECTION |
|                                                                                        |                                        |                                   |             | MM ONLY                                              |      | 5:1                                                              | METRIC |                                                                                                                               |              |                                                                                                              |
|                                                                                        |                                        |                                   |             | DRAWN BY                                             | DATE | TITLE                                                            |        |                                                                                                                               |              |                                                                                                              |
|                                                                                        |                                        |                                   |             | CHECKED BY                                           | DATE |                                                                  |        |                                                                                                                               |              |                                                                                                              |
|                                                                                        | 4 PLACES ± --- ± ---                   |                                   |             | KLANG                                                |      | I-PASS R/A CONNECTOR<br>INTERNAL ASSY W/SHELL<br>0.8MM PITCH I/O |        |                                                                                                                               |              |                                                                                                              |
|                                                                                        | 3 PLACES ± --- ± ---                   |                                   |             |                                                      |      |                                                                  |        |                                                                                                                               |              |                                                                                                              |
|                                                                                        | 2 PLACES ± 0.13 ± ---                  |                                   |             | JSWENSON                                             |      | MOLEX INCORPORATED                                               |        |                                                                                                                               |              |                                                                                                              |
|                                                                                        | 1 PLACE ± 0.25 ± ---                   |                                   |             | APPROVED BY                                          |      |                                                                  |        |                                                                                                                               |              |                                                                                                              |
|                                                                                        | ANGULAR ±1/2°                          |                                   |             | DATE                                                 |      | MOLEX INCORPORATED                                               |        |                                                                                                                               |              |                                                                                                              |
|                                                                                        |                                        |                                   |             | MBANAKIS                                             |      |                                                                  |        |                                                                                                                               |              |                                                                                                              |
| D1                                                                                     | REV                                    |                                   |             | DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS |      | MATERIAL NO.                                                     |        | DOCUMENT NO.                                                                                                                  |              | SHEET NO.<br>11 OF 12                                                                                        |
|                                                                                        |                                        |                                   |             |                                                      |      | SEE CHART                                                        |        | SD-75783-001                                                                                                                  |              |                                                                                                              |
|                                                                                        |                                        |                                   |             |                                                      |      | SIZE C                                                           |        | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX 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>2010/02/03<br>DRW:KLANG<br>CHKD:JSWENSON<br>2010/03/24<br>APPR:MBANAKIS<br>2010/03/25 | QUALITY<br>SYMBOLS |
|                                                                                                                             | ▽=0                |
|                                                                                                                             | ▽=0                |
|                                                                                                                             | REV DESCRIPTION    |

| 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.               |          |
| SIZE                       |          |
| SEE CHART                  |          |

|                                                                                                                                  |                        |                                                                                                                 |
|----------------------------------------------------------------------------------------------------------------------------------|------------------------|-----------------------------------------------------------------------------------------------------------------|
| 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                                                                                           |
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