

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

**Part Number:** [0757840156](#)  
**Status:** **Active**  
**Overview:** [ipass](#)  
**Description:** 0.80mm (.031") Pitch, iPass™ I/O SMT Receptacle, Vertical, Internal Application, 36 Circuit, 0.76µm 0.38µm (15µ"), Through Hole 3.56 Shell, Universal Key

**Documents:**

[Application Specification \(PDF\)](#) [RoHS Certificate of Compliance \(PDF\)](#)  
[Drawing \(PDF\)](#)

**Agency Certification**

CSA LR19980  
UL E29179

**General**

Product Family I/O Connectors  
Series [75784](#)  
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) 50  
Flammability 94V-0  
Gender Female  
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 Vertical  
PCB Locator Yes  
PCB Retention Yes  
Packaging Type Embossed Tape on Reel  
Panel Mount No  
Pitch - Mating Interface (in) 0.031 In  
Pitch - Mating Interface (mm) 0.80 mm  
Pitch - Term. Interface (in) 0.031 In  
Pitch - Term. Interface (mm) 0.80 mm  
Plating min: Mating (µin) 15.2  
Plating min: Mating (µm) 0.38  
Plating min: Termination (µin) 101.6  
Plating min: Termination (µm) 2.54  
Polarized to Mating Part Yes  
Polarized to PCB Yes  
Ports 1  
Surface Mount Compatible (SMC) Yes



Series

image - Reference only

**EU RoHS**

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

**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**

[75784Series](#)

**Mates With**

iPass™ Cable Assemblies, [79575](#) , [79576](#) ,  
[74562](#) , [74563](#) , [79536](#)

|                               |                             |
|-------------------------------|-----------------------------|
| Temperature Range - Operating | -40°C to +80°C              |
| Termination Interface: Style  | Surface Mount, Through Hole |
| Waterproof / Dustproof        | No                          |

**Electrical**

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

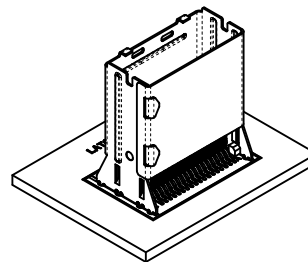
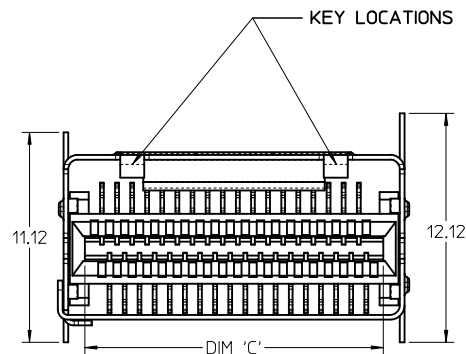
**Material Info**

**Reference - Drawing Numbers**

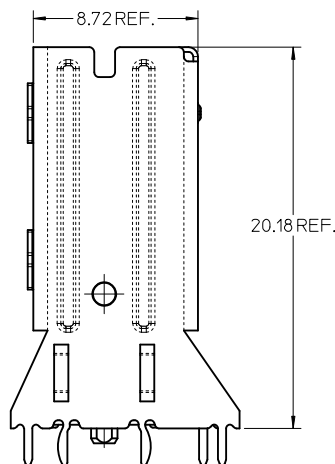
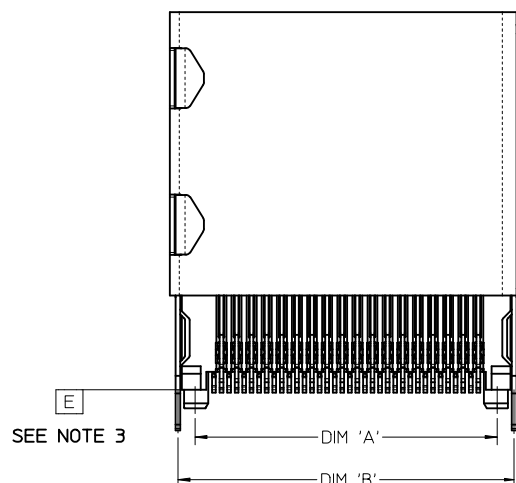
|                           |              |
|---------------------------|--------------|
| Application Specification | AS-75783-001 |
| Packaging Specification   | PK-75783-001 |
| Sales Drawing             | SD-75784-001 |

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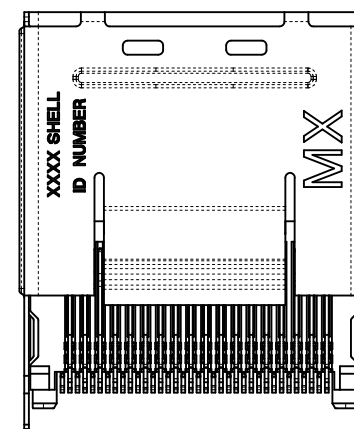
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- NOTES:
1. MATERIAL:  
CONNECTOR:  
HOUSING - HIGH TEMPERATURE THERMOPLASTIC GLASS FILLED, UL 94V-0, BLACK  
TERMINALS - COPPER ALLOY  
SHELL  
NICKEL SILVER, C770, THICKNESS: 0.250/0.254
  2. FINISH:  
CONNECTOR  
OPTION 1  
CONTACT AREA - 0.38 $\mu$ 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 DATUM E
  4. DATE CODE: 4 DIGIT (3 DIGIT DAY, 1 DIGIT YEAR) ON 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



iPass™ IS A TRADEMARK OF MOLEX

| 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 |            | DESCRIPTION   | REV |
|-----------------|------------|---------------|-----|
| EC NO:          | DATE       |               |     |
| UCP2010-1913    | 2010/02/03 | DRW:KLANG     |     |
| CHKD:JSWENSON   | 2010/03/24 | APPR:MBANAKIS |     |
| D2              |            |               |     |

QUALITY SYMBOLS  
▽=0  
▽=0

GENERAL TOLERANCES (UNLESS SPECIFIED)

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

ANGULAR ±1/2°

DRAFT WHERE APPLICABLE  
MUST REMAIN  
WITHIN DIMENSIONS

DIMENSION STYLE  
MM ONLY

| DRAWN BY | DATE     |
|----------|----------|
| 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  
5:1

DESIGN UNITS  
METRIC

THIRD ANGLE PROJECTION

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

MOLEX MOLEX INCORPORATED

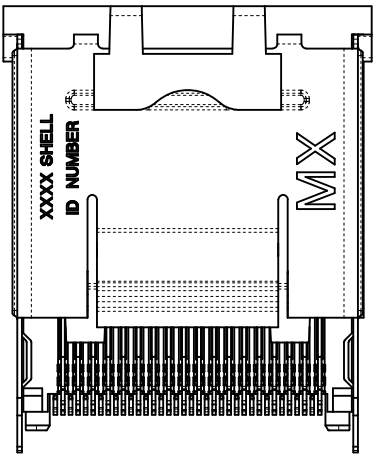
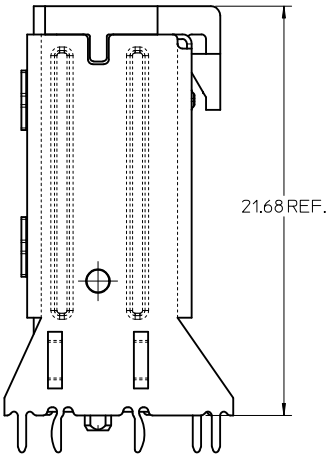
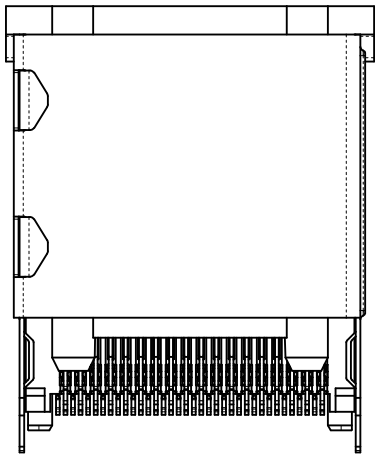
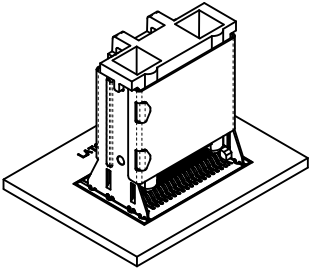
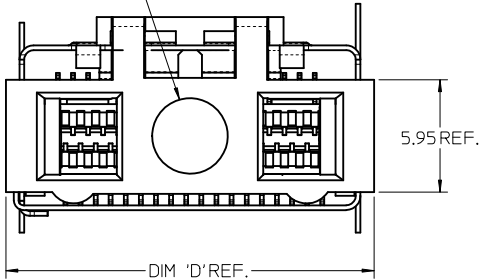
DOCUMENT NO.  
SD-75784-001

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-POSITIONING DEVICE

PICK & PLACE  
NOZZLE AREA



36 CIRCUIT RETENTION FIT SHOWN

NOTES:

1. PICK AND PLACE LOCATION DEFINED ON 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.

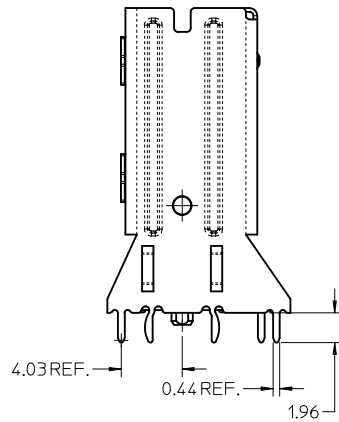
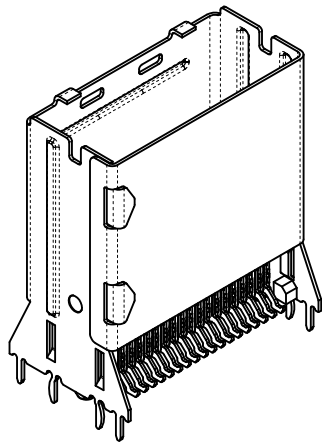
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| CIRCUIT SIZE | DIM 'D' |
|--------------|---------|
| 26           | 15.50   |
| 36           | 19.50   |
| 50           | 25.10   |
| 68           | 32.30   |

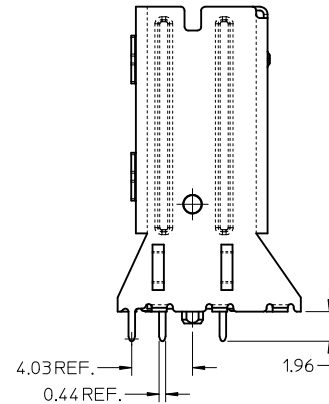
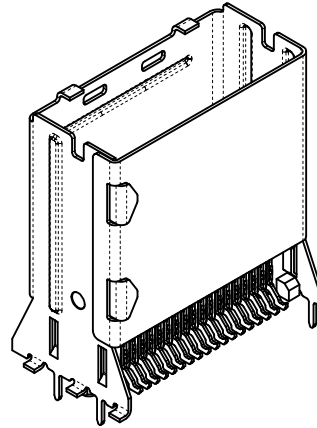
|                                                                                                           |                    |                                   |                                                      |               |                            |             |              |                                                                                                                               |                                                                                                              |              |           |
|-----------------------------------------------------------------------------------------------------------|--------------------|-----------------------------------|------------------------------------------------------|---------------|----------------------------|-------------|--------------|-------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------|--------------|-----------|
| SEE SHEET 1<br>EC NO: UCP2010-1913<br>DRAWN BY: DRWNLKANG<br>CHKD: JSWENSON<br>APPR: MBANAK I S<br><br>D2 | DESCRIPTION<br>REV | 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 PROJECTION |              |           |
|                                                                                                           |                    |                                   |                                                      | mm            | INCH                       | DRAWN BY    | DATE         | TITLE<br>I-PASS VERT CONNECTOR<br>INTERNAL ASSY W/SHELL<br>0.8MM PITCH I/O<br><br>MOLEX INCORPORATED                          |                                                                                                              |              |           |
|                                                                                                           |                    |                                   | 4 PLACES                                             | ± ---         | ± ---                      | KLANK       | 02/09/05     |                                                                                                                               |                                                                                                              |              |           |
|                                                                                                           |                    |                                   | 3 PLACES                                             | ± ---         | ± ---                      | CHECKED BY  | DATE         |                                                                                                                               |                                                                                                              |              |           |
|                                                                                                           |                    |                                   | 2 PLACES                                             | ± 0.13        | ± ---                      | JSWENSON    | 02/09/05     |                                                                                                                               |                                                                                                              |              |           |
|                                                                                                           |                    |                                   | 1 PLACE                                              | ± 0.25        | ± ---                      | APPROVED BY | DATE         |                                                                                                                               |                                                                                                              |              |           |
|                                                                                                           |                    |                                   |                                                      | ANGULAR ±1/2° |                            | MBANAK I S  | 02/02/05     |  MOLEX INCORPORATED                      |                                                                                                              |              |           |
|                                                                                                           |                    |                                   | DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS |               |                            |             | MATERIAL NO. |                                                                                                                               |                                                                                                              | DOCUMENT NO. | SHEET NO. |
|                                                                                                           |                    |                                   |                                                      |               |                            |             | SEE CHART    |                                                                                                                               |                                                                                                              | SD-75784-001 | 2 OF 12   |
|                                                                                                           |                    |                                   |                                                      |               |                            |             | SIZE<br>C    | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION |                                                                                                              |              |           |

TITLE  
I-PASS VERT CONNECTOR  
INTERNAL ASSY W/SHELL  
0.8MM PITCH I/O  
MOLEX INCORPORATED  
SHEET NO.  
2 OF 12

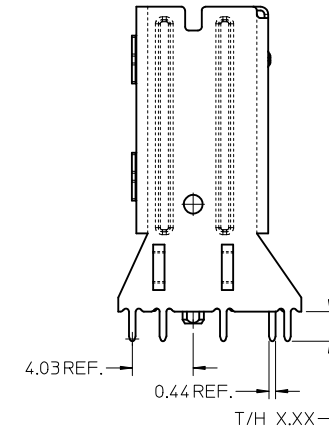
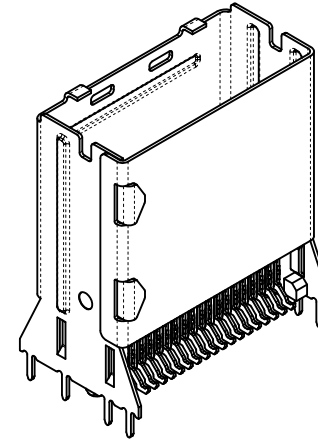
# SHELL PCB INTERFACE



RETENTION-FIT  
SHELL OPTION



SMT SHELL OPTION



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

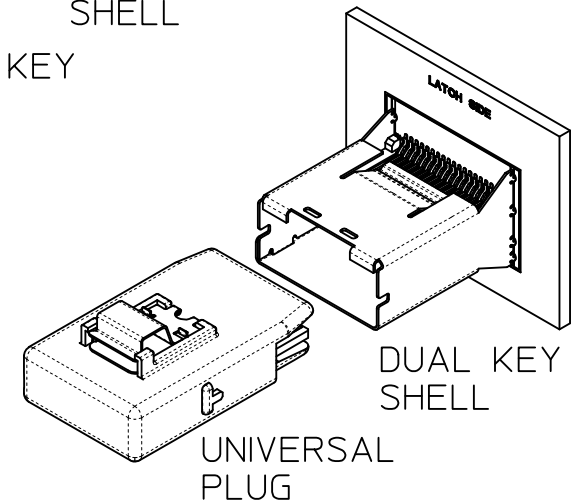
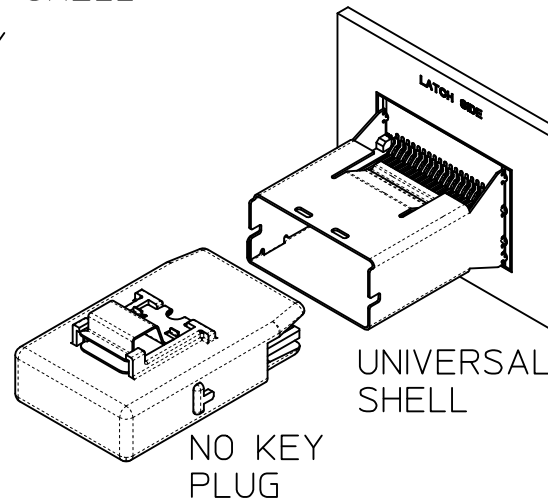
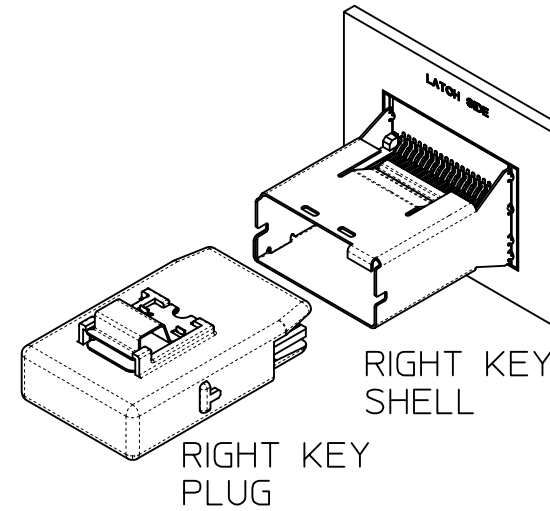
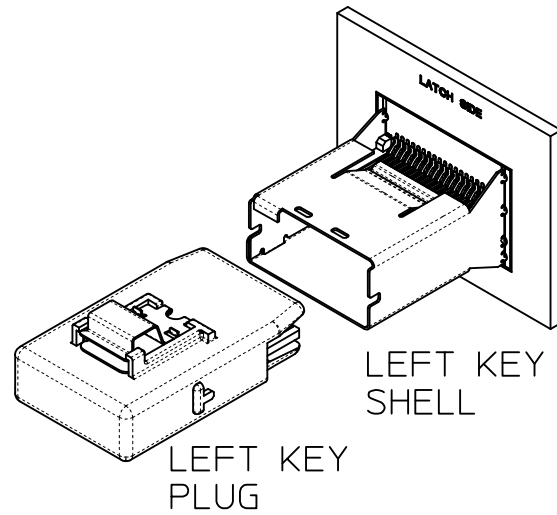
RECOMMENDED PCB THICKNESS  
FOR SPECIFIED TAIL LENGTH

| 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

| 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 D2 | QUALITY SYMBOLS  | GENERAL TOLERANCES (UNLESS SPECIFIED)<br><table border="1"> <tr> <th></th> <th>mm</th> <th>INCH</th> </tr> <tr> <td>4 PLACES</td> <td>± .005</td> <td>± .0004</td> </tr> <tr> <td>3 PLACES</td> <td>± .008</td> <td>± .0006</td> </tr> <tr> <td>2 PLACES</td> <td>± .013</td> <td>± .0009</td> </tr> <tr> <td>1 PLACE</td> <td>± .025</td> <td>± .0010</td> </tr> </table> ANGULAR ±1/2°<br>DRAFT WHERE APPLICABLE<br>MUST REMAIN WITHIN DIMENSIONS |        | mm                          | INCH | 4 PLACES | ± .005 | ± .0004 | 3 PLACES | ± .008 | ± .0006 | 2 PLACES | ± .013 | ± .0009 | 1 PLACE | ± .025 | ± .0010 | DIMENSION STYLE<br><b>MM ONLY</b> | SCALE<br><b>4:1</b> | DESIGN UNITS<br><b>METRIC</b> | THIRD ANGLE PROJECTION |
|----------------------------------------------------------------------------------------------------------------------------------|------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|-----------------------------|------|----------|--------|---------|----------|--------|---------|----------|--------|---------|---------|--------|---------|-----------------------------------|---------------------|-------------------------------|------------------------|
|                                                                                                                                  |                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                     | mm     | INCH                        |      |          |        |         |          |        |         |          |        |         |         |        |         |                                   |                     |                               |                        |
|                                                                                                                                  | 4 PLACES         |                                                                                                                                                                                                                                                                                                                                                                                                                                                     | ± .005 | ± .0004                     |      |          |        |         |          |        |         |          |        |         |         |        |         |                                   |                     |                               |                        |
|                                                                                                                                  | 3 PLACES         |                                                                                                                                                                                                                                                                                                                                                                                                                                                     | ± .008 | ± .0006                     |      |          |        |         |          |        |         |          |        |         |         |        |         |                                   |                     |                               |                        |
|                                                                                                                                  | 2 PLACES         |                                                                                                                                                                                                                                                                                                                                                                                                                                                     | ± .013 | ± .0009                     |      |          |        |         |          |        |         |          |        |         |         |        |         |                                   |                     |                               |                        |
| 1 PLACE                                                                                                                          | ± .025           | ± .0010                                                                                                                                                                                                                                                                                                                                                                                                                                             |        |                             |      |          |        |         |          |        |         |          |        |         |         |        |         |                                   |                     |                               |                        |
| DRAWN BY<br>KLANG                                                                                                                | DATE<br>02/09/05 | TITLE<br><b>I-PASS VERT CONNECTOR<br/>INTERNAL ASSY W/SHELL<br/>0.8MM PITCH I/O</b>                                                                                                                                                                                                                                                                                                                                                                 |        |                             |      |          |        |         |          |        |         |          |        |         |         |        |         |                                   |                     |                               |                        |
| CHECKED BY<br>JSWENSON                                                                                                           | DATE<br>02/09/05 | MOLEX INCORPORATED                                                                                                                                                                                                                                                                                                                                                                                                                                  |        |                             |      |          |        |         |          |        |         |          |        |         |         |        |         |                                   |                     |                               |                        |
| APPROVED BY<br>MBANAKIS                                                                                                          | DATE<br>02/02/05 | SEE CHART                                                                                                                                                                                                                                                                                                                                                                                                                                           |        |                             |      |          |        |         |          |        |         |          |        |         |         |        |         |                                   |                     |                               |                        |
| MATERIAL NO.                                                                                                                     |                  | DOCUMENT NO.<br><b>SD-75784-001</b>                                                                                                                                                                                                                                                                                                                                                                                                                 |        | SHEET NO.<br><b>3 OF 12</b> |      |          |        |         |          |        |         |          |        |         |         |        |         |                                   |                     |                               |                        |

# KEYING OPTIONS



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

SEE SHEET 1  
EC NO: UCP2010-1913  
2010/02/03  
DRAWN: KLANG  
2010/03/24  
CHKD: JSWENSON  
APPR: MBANAKIS  
2010/03/25

QUALITY  
SYMBOLS  
▽=0  
▽=0

GENERAL TOLERANCES  
(UNLESS SPECIFIED)

|          | mm     | INCH    |
|----------|--------|---------|
| 4 PLACES | ± .005 | ± .0005 |
| 3 PLACES | ± .005 | ± .0005 |
| 2 PLACES | ± .013 | ± .0005 |
| 1 PLACE  | ± .025 | ± .001  |

ANGULAR ±1/2°

DRAFT WHERE APPLICABLE  
MUST REMAIN  
WITHIN DIMENSIONS

DIMENSION STYLE  
MM ONLY

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

MATERIAL NO.

SEE CHART

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SCALE  
2:1

DESIGN UNITS  
METRIC

THIRD ANGLE  
PROJECTION

TITLE

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

MOLEX INCORPORATED

DOCUMENT NO.  
SD-75784-001

SHEET NO.  
4 OF 12

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## 26 CIRCUIT ITEM NUMBERS

| CIRCUIT SIZE | ITEM NUMBER | PLATING OPTION | SHELL PCB OPTION | SHELL KEY OPTION |
|--------------|-------------|----------------|------------------|------------------|
| 26           | 75784-0007  | OPTION 1       | RETENTION        | LEFT             |
| 26           | 75784-0008  | OPTION 1       | RETENTION        | RIGHT            |
| 26           | 75784-0009  | OPTION 1       | RETENTION        | DUAL             |
| 26           | 75784-0010  | OPTION 1       | SMT              | LEFT             |
| 26           | 75784-0011  | OPTION 1       | SMT              | RIGHT            |
| 26           | 75784-0012  | OPTION 1       | SMT              | DUAL             |
| 26           | 75784-0019  | OPTION 2       | RETENTION        | LEFT             |
| 26           | 75784-0020  | OPTION 2       | RETENTION        | RIGHT            |
| 26           | 75784-0021  | OPTION 2       | RETENTION        | DUAL             |
| 26           | 75784-0022  | OPTION 2       | SMT              | LEFT             |
| 26           | 75784-0023  | OPTION 2       | SMT              | RIGHT            |
| 26           | 75784-0024  | OPTION 2       | SMT              | DUAL             |
| 26           | 75784-0025  | OPTION 1       | RETENTION        | UNIVERSAL        |
| 26           | 75784-0026  | OPTION 1       | SMT              | UNIVERSAL        |
| 26           | 75784-0027  | OPTION 2       | RETENTION        | UNIVERSAL        |
| 26           | 75784-0028  | OPTION 2       | SMT              | UNIVERSAL        |
| 26           | 75784-0029  | OPTION 1       | T/H 1.96         | LEFT             |
| 26           | 75784-0030  | OPTION 1       | T/H 1.96         | RIGHT            |
| 26           | 75784-0031  | OPTION 1       | T/H 1.96         | DUAL             |
| 26           | 75784-0032  | OPTION 1       | T/H 1.96         | UNIVERSAL        |
| 26           | 75784-0033  | OPTION 2       | T/H 1.96         | LEFT             |
| 26           | 75784-0034  | OPTION 2       | T/H 1.96         | RIGHT            |
| 26           | 75784-0035  | OPTION 2       | T/H 1.96         | DUAL             |
| 26           | 75784-0036  | OPTION 2       | T/H 1.96         | UNIVERSAL        |

| CIRCUIT SIZE | ITEM NUMBER | PLATING OPTION | SHELL PCB OPTION | SHELL KEY OPTION |
|--------------|-------------|----------------|------------------|------------------|
| 26           | 75784-0037  | OPTION 1       | T/H 2.79         | LEFT             |
| 26           | 75784-0038  | OPTION 1       | T/H 2.79         | RIGHT            |
| 26           | 75784-0039  | OPTION 1       | T/H 2.79         | DUAL             |
| 26           | 75784-0040  | OPTION 1       | T/H 2.79         | UNIVERSAL        |
| 26           | 75784-0041  | OPTION 2       | T/H 2.79         | LEFT             |
| 26           | 75784-0042  | OPTION 2       | T/H 2.79         | RIGHT            |
| 26           | 75784-0043  | OPTION 2       | T/H 2.79         | DUAL             |
| 26           | 75784-0044  | OPTION 2       | T/H 2.79         | UNIVERSAL        |
| 26           | 75784-0045  | OPTION 1       | T/H 3.18         | LEFT             |
| 26           | 75784-0046  | OPTION 1       | T/H 3.18         | RIGHT            |
| 26           | 75784-0047  | OPTION 1       | T/H 3.18         | DUAL             |
| 26           | 75784-0048  | OPTION 1       | T/H 3.18         | UNIVERSAL        |
| 26           | 75784-0049  | OPTION 2       | T/H 3.18         | LEFT             |
| 26           | 75784-0050  | OPTION 2       | T/H 3.18         | RIGHT            |
| 26           | 75784-0051  | OPTION 2       | T/H 3.18         | DUAL             |
| 26           | 75784-0052  | OPTION 2       | T/H 3.18         | UNIVERSAL        |

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|                                                                                                                                  |                               |                                       |  |                                                                                                                                  |  |                         |                        |                        |  |
|----------------------------------------------------------------------------------------------------------------------------------|-------------------------------|---------------------------------------|--|----------------------------------------------------------------------------------------------------------------------------------|--|-------------------------|------------------------|------------------------|--|
| SEE SHEET 1<br>EC NO: UCP2010-1913<br>2010/02/03<br>DRAWN: 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 |  |
|                                                                                                                                  |                               | mm                                    |  | INCH                                                                                                                             |  | DRAWN BY<br>KLANG       |                        | DATE<br>02/09/05       |  |
|                                                                                                                                  |                               | 4 PLACES ± ---                        |  | ± ---                                                                                                                            |  | CHECKED BY<br>JSWENSON  |                        | DATE<br>02/09/05       |  |
|                                                                                                                                  |                               | 3 PLACES ± ---                        |  | ± ---                                                                                                                            |  | APPROVED BY<br>MBANAKIS |                        | DATE<br>02/02/05       |  |
| 2 PLACES ± 0.13                                                                                                                  |                               | ± ---                                 |  | MATERIAL NO.                                                                                                                     |  | DOCUMENT NO.            |                        | SHEET NO.              |  |
| 1 PLACE ± 0.25                                                                                                                   |                               | ± ---                                 |  | ANGULAR ± 1/2°                                                                                                                   |  | SEE CHART               |                        | SD-75784-001           |  |
| DRAFT WHERE APPLICABLE<br>MUST REMAIN<br>WITHIN DIMENSIONS                                                                       |                               | SIZE<br>C                             |  | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX<br>INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION |  |                         |                        |                        |  |

I-PASS VERT CONNECTOR  
INTERNAL ASSY W/SHELL  
0.8MM PITCH I/O  
MOLEX INCORPORATED

5 OF 12

# 36 CIRCUIT ITEM NUMBERS

| CIRCUIT SIZE | ITEM NUMBER | PLATING OPTION | SHELL PCB OPTION | SHELL KEY OPTION |
|--------------|-------------|----------------|------------------|------------------|
| 36           | 75784-0107  | OPTION 1       | RETENTION        | LEFT             |
| 36           | 75784-0108  | OPTION 1       | RETENTION        | RIGHT            |
| 36           | 75784-0109  | OPTION 1       | RETENTION        | DUAL             |
| 36           | 75784-0110  | OPTION 1       | SMT              | LEFT             |
| 36           | 75784-0111  | OPTION 1       | SMT              | RIGHT            |
| 36           | 75784-0112  | OPTION 1       | SMT              | DUAL             |
| 36           | 75784-0119  | OPTION 2       | RETENTION        | LEFT             |
| 36           | 75784-0120  | OPTION 2       | RETENTION        | RIGHT            |
| 36           | 75784-0121  | OPTION 2       | RETENTION        | DUAL             |
| 36           | 75784-0122  | OPTION 2       | SMT              | LEFT             |
| 36           | 75784-0123  | OPTION 2       | SMT              | RIGHT            |
| 36           | 75784-0124  | OPTION 2       | SMT              | DUAL             |
| 36           | 75784-0125  | OPTION 1       | RETENTION        | UNIVERSAL        |
| 36           | 75784-0126  | OPTION 1       | SMT              | UNIVERSAL        |
| 36           | 75784-0127  | OPTION 2       | RETENTION        | UNIVERSAL        |
| 36           | 75784-0128  | OPTION 2       | SMT              | UNIVERSAL        |
| 36           | 75784-0129  | OPTION 1       | T/H 1.96         | LEFT             |
| 36           | 75784-0130  | OPTION 1       | T/H 1.96         | RIGHT            |
| 36           | 75784-0131  | OPTION 1       | T/H 1.96         | DUAL             |
| 36           | 75784-0132  | OPTION 1       | T/H 1.96         | UNIVERSAL        |
| 36           | 75784-0133  | OPTION 2       | T/H 1.96         | LEFT             |
| 36           | 75784-0134  | OPTION 2       | T/H 1.96         | RIGHT            |
| 36           | 75784-0135  | OPTION 2       | T/H 1.96         | DUAL             |
| 36           | 75784-0136  | OPTION 2       | T/H 1.96         | UNIVERSAL        |

| CIRCUIT SIZE | ITEM NUMBER | PLATING OPTION | SHELL PCB OPTION | SHELL KEY OPTION |
|--------------|-------------|----------------|------------------|------------------|
| 36           | 75784-0137  | OPTION 1       | T/H 2.79         | LEFT             |
| 36           | 75784-0138  | OPTION 1       | T/H 2.79         | RIGHT            |
| 36           | 75784-0139  | OPTION 1       | T/H 2.79         | DUAL             |
| 36           | 75784-0140  | OPTION 1       | T/H 2.79         | UNIVERSAL        |
| 36           | 75784-0141  | OPTION 2       | T/H 2.79         | LEFT             |
| 36           | 75784-0142  | OPTION 2       | T/H 2.79         | RIGHT            |
| 36           | 75784-0143  | OPTION 2       | T/H 2.79         | DUAL             |
| 36           | 75784-0144  | OPTION 2       | T/H 2.79         | UNIVERSAL        |
| 36           | 75784-0145  | OPTION 1       | T/H 3.18         | LEFT             |
| 36           | 75784-0146  | OPTION 1       | T/H 3.18         | RIGHT            |
| 36           | 75784-0147  | OPTION 1       | T/H 3.18         | DUAL             |
| 36           | 75784-0148  | OPTION 1       | T/H 3.18         | UNIVERSAL        |
| 36           | 75784-0149  | OPTION 2       | T/H 3.18         | LEFT             |
| 36           | 75784-0150  | OPTION 2       | T/H 3.18         | RIGHT            |
| 36           | 75784-0151  | OPTION 2       | T/H 3.18         | DUAL             |
| 36           | 75784-0152  | OPTION 2       | T/H 3.18         | UNIVERSAL        |
| 36           | 75784-0153  | OPTION 1       | T/H 3.56         | LEFT             |
| 36           | 75784-0154  | OPTION 1       | T/H 3.56         | RIGHT            |
| 36           | 75784-0155  | OPTION 1       | T/H 3.56         | DUAL             |
| 36           | 75784-0156  | OPTION 1       | T/H 3.56         | UNIVERSAL        |
| 36           | 75784-0157  | OPTION 2       | T/H 3.56         | LEFT             |
| 36           | 75784-0158  | OPTION 2       | T/H 3.56         | RIGHT            |
| 36           | 75784-0159  | OPTION 2       | T/H 3.56         | DUAL             |
| 36           | 75784-0160  | OPTION 2       | T/H 3.56         | UNIVERSAL        |

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|                                                                                                                               |                                        |                               |                                       |              |                                   |         |                     |                                                                                                |                            |           |
|-------------------------------------------------------------------------------------------------------------------------------|----------------------------------------|-------------------------------|---------------------------------------|--------------|-----------------------------------|---------|---------------------|------------------------------------------------------------------------------------------------|----------------------------|-----------|
| <b>SEE SHEET 1</b><br>EC NO: UCP2010-1913<br>DRWN: KLANG<br>CHKD: JSWENSON<br>APPR: MBANAKIS                                  | 2010/02/03<br>2010/03/24<br>2010/03/25 | 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<br> |           |
|                                                                                                                               |                                        |                               |                                       |              | DRAWN BY<br>KLANG                 |         | DATE<br>02/09/05    | I-PASS VERT CONNECTOR<br>INTERNAL ASSY W/SHELL<br>0.8MM PITCH I/O<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. |
| DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS                                                                          |                                        | SEE CHART                     |                                       | SD-75784-001 |                                   | 6 OF 12 |                     |                                                                                                |                            |           |
| THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION |                                        |                               |                                       |              |                                   |         |                     |                                                                                                |                            |           |

50 CIRCUIT ITEM NUMBERS

| CIRCUIT SIZE | ITEM NUMBER | PLATING OPTION | SHELL PCB OPTION | SHELL KEY OPTION |
|--------------|-------------|----------------|------------------|------------------|
| 50           | 75784-0207  | OPTION 1       | RETENTION        | LEFT             |
| 50           | 75784-0208  | OPTION 1       | RETENTION        | RIGHT            |
| 50           | 75784-0209  | OPTION 1       | RETENTION        | DUAL             |
| 50           | 75784-0210  | OPTION 1       | SMT              | LEFT             |
| 50           | 75784-0211  | OPTION 1       | SMT              | RIGHT            |
| 50           | 75784-0212  | OPTION 1       | SMT              | DUAL             |
| 50           | 75784-0219  | OPTION 2       | RETENTION        | LEFT             |
| 50           | 75784-0220  | OPTION 2       | RETENTION        | RIGHT            |
| 50           | 75784-0221  | OPTION 2       | RETENTION        | DUAL             |
| 50           | 75784-0222  | OPTION 2       | SMT              | LEFT             |
| 50           | 75784-0223  | OPTION 2       | SMT              | RIGHT            |
| 50           | 75784-0224  | OPTION 2       | SMT              | DUAL             |
| 50           | 75784-0225  | OPTION 1       | RETENTION        | UNIVERSAL        |
| 50           | 75784-0226  | OPTION 1       | SMT              | UNIVERSAL        |
| 50           | 75784-0227  | OPTION 2       | RETENTION        | UNIVERSAL        |
| 50           | 75784-0228  | OPTION 2       | SMT              | UNIVERSAL        |
| 50           | 75784-0229  | OPTION 1       | T/H 1.96         | LEFT             |
| 50           | 75784-0230  | OPTION 1       | T/H 1.96         | RIGHT            |
| 50           | 75784-0231  | OPTION 1       | T/H 1.96         | DUAL             |
| 50           | 75784-0232  | OPTION 1       | T/H 1.96         | UNIVERSAL        |
| 50           | 75784-0233  | OPTION 2       | T/H 1.96         | LEFT             |
| 50           | 75784-0234  | OPTION 2       | T/H 1.96         | RIGHT            |
| 50           | 75784-0235  | OPTION 2       | T/H 1.96         | DUAL             |
| 50           | 75784-0236  | OPTION 2       | T/H 1.96         | UNIVERSAL        |

| CIRCUIT SIZE | ITEM NUMBER | PLATING OPTION | SHELL PCB OPTION | SHELL KEY OPTION |
|--------------|-------------|----------------|------------------|------------------|
| 50           | 75784-0237  | OPTION 1       | T/H 2.79         | LEFT             |
| 50           | 75784-0238  | OPTION 1       | T/H 2.79         | RIGHT            |
| 50           | 75784-0239  | OPTION 1       | T/H 2.79         | DUAL             |
| 50           | 75784-0240  | OPTION 1       | T/H 2.79         | UNIVERSAL        |
| 50           | 75784-0241  | OPTION 2       | T/H 2.79         | LEFT             |
| 50           | 75784-0242  | OPTION 2       | T/H 2.79         | RIGHT            |
| 50           | 75784-0243  | OPTION 2       | T/H 2.79         | DUAL             |
| 50           | 75784-0244  | OPTION 2       | T/H 2.79         | UNIVERSAL        |
| 50           | 75784-0245  | OPTION 1       | T/H 3.18         | LEFT             |
| 50           | 75784-0246  | OPTION 1       | T/H 3.18         | RIGHT            |
| 50           | 75784-0247  | OPTION 1       | T/H 3.18         | DUAL             |
| 50           | 75784-0248  | OPTION 1       | T/H 3.18         | UNIVERSAL        |
| 50           | 75784-0249  | OPTION 2       | T/H 3.18         | LEFT             |
| 50           | 75784-0250  | OPTION 2       | T/H 3.18         | RIGHT            |
| 50           | 75784-0251  | OPTION 2       | T/H 3.18         | DUAL             |
| 50           | 75784-0252  | OPTION 2       | T/H 3.18         | UNIVERSAL        |

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|                                                                                                                                  |                    |                                                                                                                                  |                                       |              |                            |                  |                                                                            |                        |                        |  |           |
|----------------------------------------------------------------------------------------------------------------------------------|--------------------|----------------------------------------------------------------------------------------------------------------------------------|---------------------------------------|--------------|----------------------------|------------------|----------------------------------------------------------------------------|------------------------|------------------------|--|-----------|
| SEE SHEET 1<br>EC NO: UCP2010-1913<br>2010/02/03<br>DRAWN: KLANG<br>2010/03/24<br>CHKD: JSWENSON<br>2010/03/25<br>APPR: MBANAKIS | DESCRIPTION<br>REV | 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 VERT CONNECTOR<br>INTERNAL ASSY W/SHELL<br>0.8MM PITCH I/O |                        |                        |  |           |
|                                                                                                                                  |                    |                                                                                                                                  |                                       |              | CHECKED BY<br>JSWENSON     | DATE<br>02/09/05 |                                                                            |                        |                        |  |           |
|                                                                                                                                  |                    |                                                                                                                                  |                                       |              | APPROVED BY<br>MBANAKIS    | DATE<br>02/02/05 |                                                                            |                        |                        |  |           |
|                                                                                                                                  |                    |                                                                                                                                  |                                       |              | ANGULAR ±1/2°              |                  | MATERIAL NO.                                                               |                        | DOCUMENT NO.           |  | SHEET NO. |
| DRAFT WHERE APPLICABLE<br>MUST REMAIN<br>WITHIN DIMENSIONS                                                                       |                    | SEE CHART                                                                                                                        |                                       | SD-75784-001 |                            | 7 OF 12          |                                                                            |                        |                        |  |           |
| SIZE<br>C                                                                                                                        |                    | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX<br>INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION |                                       |              |                            |                  |                                                                            |                        |                        |  |           |

## 68 CIRCUIT ITEM NUMBERS

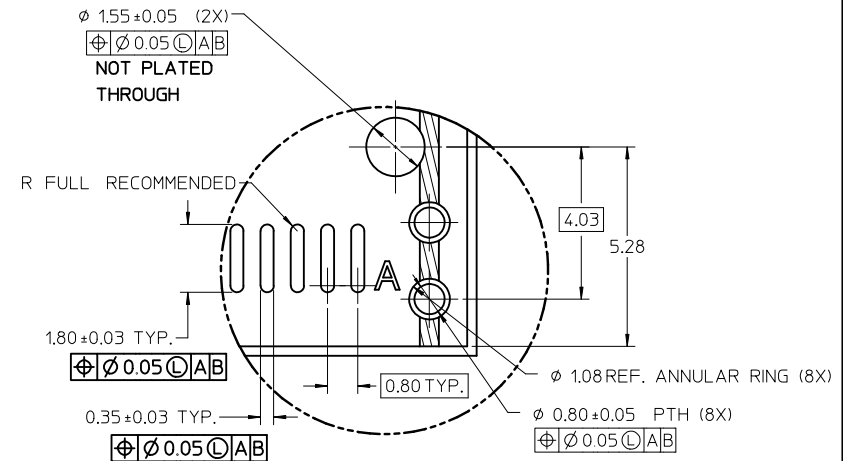
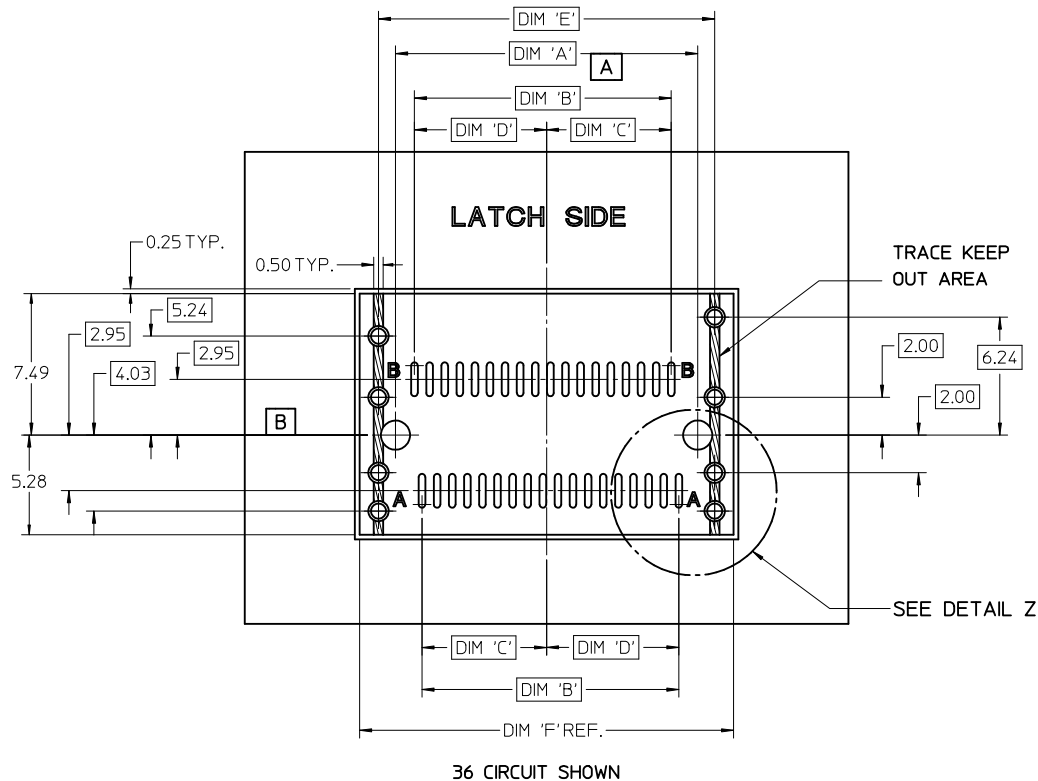
| CIRCUIT SIZE | ITEM NUMBER | PLATING OPTION | SHELL PCB OPTION | SHELL KEY OPTION |
|--------------|-------------|----------------|------------------|------------------|
| 68           | 75784-0307  | OPTION 1       | RETENTION        | LEFT             |
| 68           | 75784-0308  | OPTION 1       | RETENTION        | RIGHT            |
| 68           | 75784-0309  | OPTION 1       | RETENTION        | DUAL             |
| 68           | 75784-0310  | OPTION 1       | SMT              | LEFT             |
| 68           | 75784-0311  | OPTION 1       | SMT              | RIGHT            |
| 68           | 75784-0312  | OPTION 1       | SMT              | DUAL             |
| 68           | 75784-0319  | OPTION 2       | RETENTION        | LEFT             |
| 68           | 75784-0320  | OPTION 2       | RETENTION        | RIGHT            |
| 68           | 75784-0321  | OPTION 2       | RETENTION        | DUAL             |
| 68           | 75784-0322  | OPTION 2       | SMT              | LEFT             |
| 68           | 75784-0323  | OPTION 2       | SMT              | RIGHT            |
| 68           | 75784-0324  | OPTION 2       | SMT              | DUAL             |
| 68           | 75784-0325  | OPTION 1       | RETENTION        | UNIVERSAL        |
| 68           | 75784-0326  | OPTION 1       | SMT              | UNIVERSAL        |
| 68           | 75784-0327  | OPTION 2       | RETENTION        | UNIVERSAL        |
| 68           | 75784-0328  | OPTION 2       | SMT              | UNIVERSAL        |
| 68           | 75784-0329  | OPTION 1       | T/H 1.96         | LEFT             |
| 68           | 75784-0330  | OPTION 1       | T/H 1.96         | RIGHT            |
| 68           | 75784-0331  | OPTION 1       | T/H 1.96         | DUAL             |
| 68           | 75784-0332  | OPTION 1       | T/H 1.96         | UNIVERSAL        |
| 68           | 75784-0333  | OPTION 2       | T/H 1.96         | LEFT             |
| 68           | 75784-0334  | OPTION 2       | T/H 1.96         | RIGHT            |
| 68           | 75784-0335  | OPTION 2       | T/H 1.96         | DUAL             |
| 68           | 75784-0336  | OPTION 2       | T/H 1.96         | UNIVERSAL        |

| CIRCUIT SIZE | ITEM NUMBER | PLATING OPTION | SHELL PCB OPTION | SHELL KEY OPTION |
|--------------|-------------|----------------|------------------|------------------|
| 68           | 75784-0337  | OPTION 1       | T/H 2.79         | LEFT             |
| 68           | 75784-0338  | OPTION 1       | T/H 2.79         | RIGHT            |
| 68           | 75784-0339  | OPTION 1       | T/H 2.79         | DUAL             |
| 68           | 75784-0340  | OPTION 1       | T/H 2.79         | UNIVERSAL        |
| 68           | 75784-0341  | OPTION 2       | T/H 2.79         | LEFT             |
| 68           | 75784-0342  | OPTION 2       | T/H 2.79         | RIGHT            |
| 68           | 75784-0343  | OPTION 2       | T/H 2.79         | DUAL             |
| 68           | 75784-0344  | OPTION 2       | T/H 2.79         | UNIVERSAL        |
| 68           | 75784-0345  | OPTION 1       | T/H 3.18         | LEFT             |
| 68           | 75784-0346  | OPTION 1       | T/H 3.18         | RIGHT            |
| 68           | 75784-0347  | OPTION 1       | T/H 3.18         | DUAL             |
| 68           | 75784-0348  | OPTION 1       | T/H 3.18         | UNIVERSAL        |
| 68           | 75784-0349  | OPTION 2       | T/H 3.18         | LEFT             |
| 68           | 75784-0350  | OPTION 2       | T/H 3.18         | RIGHT            |
| 68           | 75784-0351  | OPTION 2       | T/H 3.18         | DUAL             |
| 68           | 75784-0352  | OPTION 2       | T/H 3.18         | UNIVERSAL        |

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|                                                                                                                                         |                               |                                       |  |                                                                                                                                  |  |                         |                        |                        |  |
|-----------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|---------------------------------------|--|----------------------------------------------------------------------------------------------------------------------------------|--|-------------------------|------------------------|------------------------|--|
| SEE SHEET 1<br>EC NO: UCP2010-1913<br>2010/02/03<br>DRAWN BY: DRWNKLANG<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 |  |
|                                                                                                                                         |                               | mm                                    |  | INCH                                                                                                                             |  | DRAWN BY<br>KLANG       |                        | DATE<br>02/09/05       |  |
|                                                                                                                                         |                               | 4 PLACES ± ---                        |  | ± ---                                                                                                                            |  | CHECKED BY<br>JSWENSON  |                        | DATE<br>02/09/05       |  |
|                                                                                                                                         |                               | 3 PLACES ± ---                        |  | ± ---                                                                                                                            |  | APPROVED BY<br>MBANAKIS |                        | DATE<br>02/02/05       |  |
|                                                                                                                                         |                               | 2 PLACES ± 0.13                       |  | ± ---                                                                                                                            |  | MATERIAL NO.            |                        | DOCUMENT NO.           |  |
| 1 PLACE ± 0.25                                                                                                                          |                               | ± ---                                 |  | ANGULAR ± 1/2°                                                                                                                   |  | SEE CHART               |                        | SD-75784-001           |  |
| DRAFT WHERE APPLICABLE<br>MUST REMAIN<br>WITHIN DIMENSIONS                                                                              |                               | SIZE<br>C                             |  | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX<br>INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION |  |                         |                        |                        |  |

VERTICAL CONNECTOR  
WITH RETENTION FIT & THRU-HOLE SHELL  
PCB FOOT PRINT

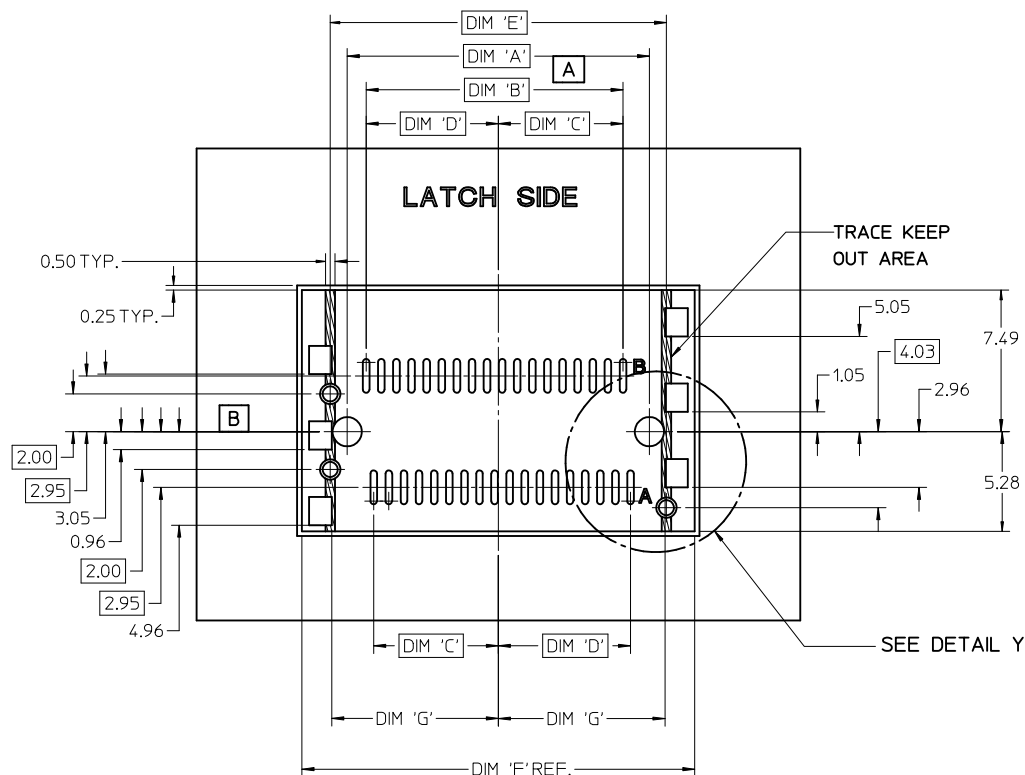


DETAIL Z  
SCALE 10:1

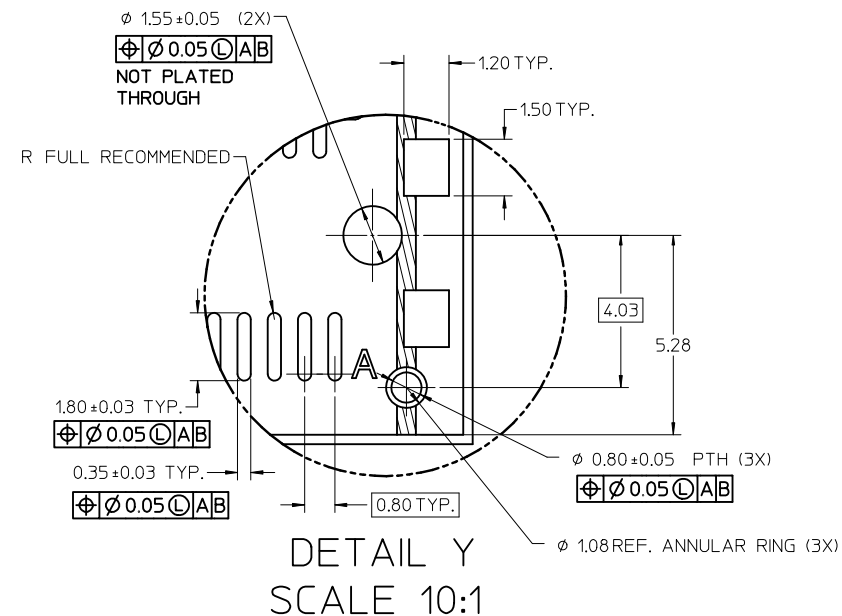
|              | PEG TO PEG | FIRST TO LAST PAD | CENTERLINE TO PAD | CENTERLINE TO PAD | SHELL PEG TO PEG | SHELL FOOTPRINT WIDTH |
|--------------|------------|-------------------|-------------------|-------------------|------------------|-----------------------|
| CIRCUIT SIZE | DIM 'A'    | DIM 'B'           | DIM 'C'           | DIM 'D'           | DIM 'E'          | DIM 'F'               |
| 26           | 12.00      | 9.60              | 4.60              | 5.00              | 13.80            | 15.80                 |
| 36           | 16.00      | 13.60             | 6.60              | 7.00              | 17.80            | 19.80                 |
| 50           | 21.60      | 19.20             | 9.40              | 9.80              | 23.40            | 25.40                 |
| 68           | 28.80      | 26.40             | 13.00             | 13.40             | 30.60            | 32.60                 |

|                                                                                              |                                        |             |                                   |                                                            |           |  |                                                                                                                                  |  |                  |                                                                            |                              |  |  |  |  |
|----------------------------------------------------------------------------------------------|----------------------------------------|-------------|-----------------------------------|------------------------------------------------------------|-----------|--|----------------------------------------------------------------------------------------------------------------------------------|--|------------------|----------------------------------------------------------------------------|------------------------------|--|--|--|--|
| SEE SHEET 1<br>EC NO: UCP2010-1913<br>DRAWN: KLANG<br>CHKD: JSWENSON<br>APPR: MBANAKIS<br>D2 | 2010/02/03<br>2010/03/24<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 PROJECTION       |  |  |  |  |
|                                                                                              |                                        |             |                                   |                                                            |           |  | DRAWN BY<br>KLANG                                                                                                                |  | DATE<br>02/09/05 | TITLE<br>I-PASS VERT CONNECTOR<br>INTERNAL ASSY W/SHELL<br>0.8MM PITCH I/O |                              |  |  |  |  |
|                                                                                              |                                        |             |                                   |                                                            |           |  | CHECKED BY<br>JSWENSON                                                                                                           |  | DATE<br>02/09/05 |                                                                            |                              |  |  |  |  |
|                                                                                              |                                        |             |                                   | 4 PLACES ± --- ± ---                                       |           |  |                                                                                                                                  |  |                  |                                                                            | MOLEX MOLEX INCORPORATED     |  |  |  |  |
|                                                                                              |                                        |             |                                   | 3 PLACES ± --- ± ---                                       |           |  |                                                                                                                                  |  |                  |                                                                            |                              |  |  |  |  |
|                                                                                              |                                        |             |                                   | 2 PLACES ± 0.13 ± ---                                      |           |  |                                                                                                                                  |  |                  |                                                                            | DOCUMENT NO.<br>SD-75784-001 |  |  |  |  |
|                                                                                              |                                        |             |                                   | 1 PLACE ± 0.25 ± ---                                       |           |  |                                                                                                                                  |  |                  |                                                                            |                              |  |  |  |  |
|                                                                                              |                                        |             |                                   | ANGULAR ± 1/2°                                             |           |  |                                                                                                                                  |  |                  |                                                                            | SHEET NO.<br>9 OF 12         |  |  |  |  |
|                                                                                              |                                        |             |                                   |                                                            |           |  |                                                                                                                                  |  |                  |                                                                            |                              |  |  |  |  |
|                                                                                              |                                        |             |                                   | DRAFT WHERE APPLICABLE<br>MUST REMAIN<br>WITHIN DIMENSIONS |           |  |                                                                                                                                  |  |                  |                                                                            |                              |  |  |  |  |
| REV                                                                                          |                                        |             |                                   |                                                            | SIZE<br>C |  | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX<br>INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION |  |                  |                                                                            |                              |  |  |  |  |

# VERTICAL CONNECTOR WITH SMT SHELL PCB FOOT PRINT



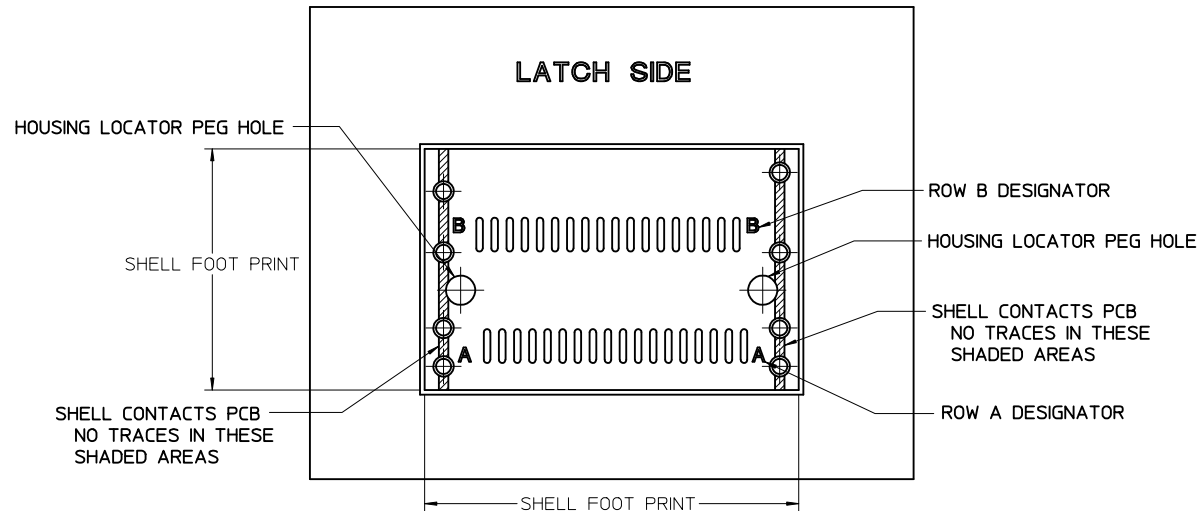
36 CIRCUIT SHOWN



|              | PEG TO PEG | FIRST TO LAST PAD | CENTERLINE TO PAD | CENTERLINE TO PAD | SHELL PEG TO PEG | SHELL FOOTPRINT WIDTH | CENTERLINE TO PAD EDGE |
|--------------|------------|-------------------|-------------------|-------------------|------------------|-----------------------|------------------------|
| CIRCUIT SIZE | DIM 'A'    | DIM 'B'           | DIM 'C'           | DIM 'D'           | DIM 'E'          | DIM 'F'               | DIM 'G'                |
| 26           | 12.00      | 9.60              | 4.60              | 5.00              | 13.80            | 16.80                 | 6.825                  |
| 36           | 16.00      | 13.60             | 6.60              | 7.00              | 17.80            | 20.80                 | 8.825                  |
| 50           | 21.60      | 19.20             | 9.40              | 9.80              | 23.40            | 26.40                 | 11.625                 |
| 68           | 28.80      | 26.40             | 13.00             | 13.40             | 30.60            | 33.60                 | 15.225                 |

|                                                            |                                                                                 |          |             |                                   |                                       |        |           |                            |                                                                                                                                  |              |                                                                            |                           |                              |  |
|------------------------------------------------------------|---------------------------------------------------------------------------------|----------|-------------|-----------------------------------|---------------------------------------|--------|-----------|----------------------------|----------------------------------------------------------------------------------------------------------------------------------|--------------|----------------------------------------------------------------------------|---------------------------|------------------------------|--|
| SEE SHEET 1                                                | EC NO: UCP2010-1913<br>DRAWN BY: DRWINKLANG<br>CHKD: JSWENSON<br>APPR: MBANAKIS |          |             | 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 |                              |  |
|                                                            | D2                                                                              | REV      | DESCRIPTION |                                   | mm                                    |        | INCH      |                            | DRAWN BY DATE                                                                                                                    |              | TITLE<br>I-PASS VERT CONNECTOR<br>INTERNAL ASSY W/SHELL<br>0.8MM PITCH I/O |                           |                              |  |
|                                                            |                                                                                 |          |             |                                   | 4 PLACES                              | ± ---  | ± ---     | KLANG                      | 02/09/05                                                                                                                         |              |                                                                            |                           |                              |  |
|                                                            |                                                                                 |          |             |                                   | 3 PLACES                              | ± ---  | ± ---     | CHECKED BY DATE            | MOLEX INCORPORATED                                                                                                               |              |                                                                            |                           |                              |  |
|                                                            |                                                                                 |          |             |                                   | 2 PLACES                              | ± 0.13 | ± ---     | JSWENSON                   |                                                                                                                                  |              |                                                                            |                           | 02/09/05                     |  |
|                                                            |                                                                                 |          |             |                                   | 1 PLACE                               | ± 0.25 | ± ---     | APPROVED BY DATE           |                                                                                                                                  |              |                                                                            |                           | DOCUMENT NO.<br>SD-75784-001 |  |
| ANGULAR ±1/2°                                              |                                                                                 | MBANAKIS | 02/02/05    | SHEET NO.<br>10 OF 12             |                                       |        |           |                            |                                                                                                                                  |              |                                                                            |                           |                              |  |
| DRAFT WHERE APPLICABLE<br>MUST REMAIN<br>WITHIN DIMENSIONS |                                                                                 |          |             |                                   | ANGULAR ±1/2°                         |        | SEE CHART |                            | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX<br>INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION |              |                                                                            |                           |                              |  |

# VERTICAL CONNECTOR WITH SHELL PCB FOOT PRINT DESCRIPTIONS

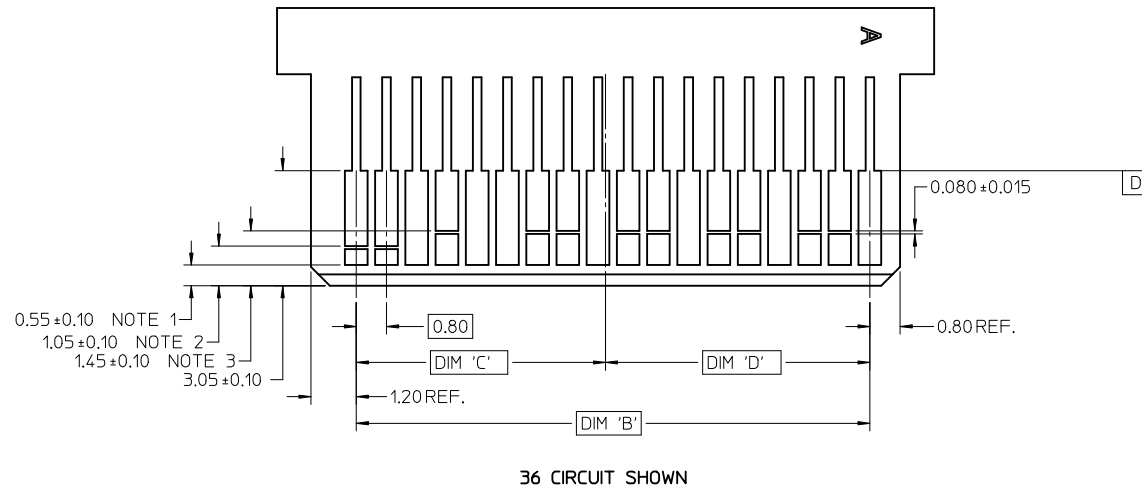
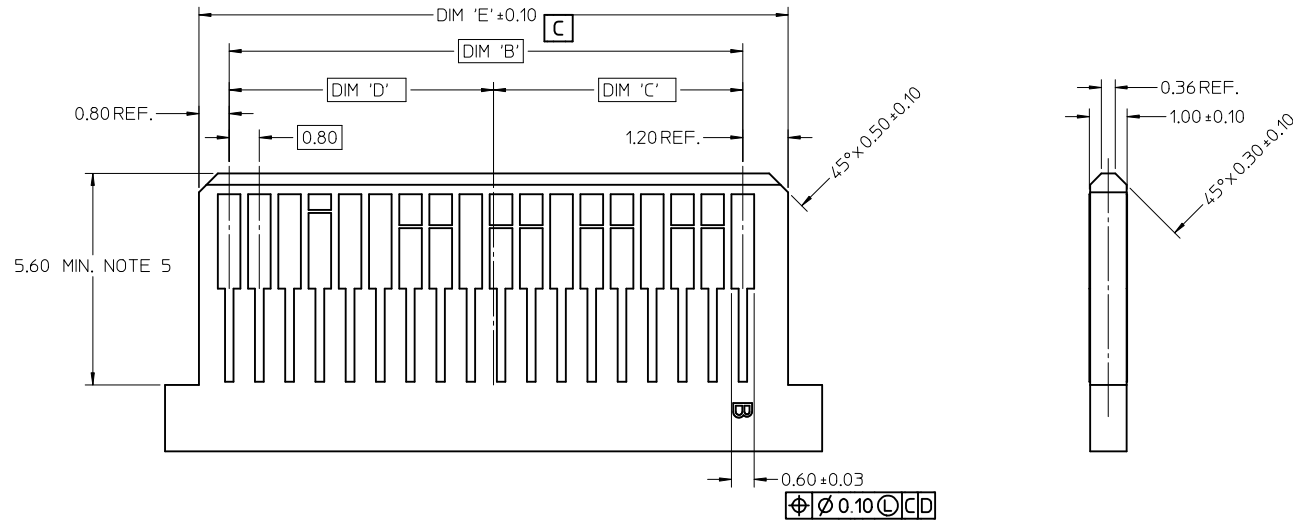


36 CIRCUIT SHOWN

iPass™ IS A TRADEMARK OF MOLEX

|                                                                                                                                         |                    |                                   |                                       |  |  |                                                                                                                               |  |                  |                        |                                                                                                              |                                                                                |           |  |  |  |
|-----------------------------------------------------------------------------------------------------------------------------------------|--------------------|-----------------------------------|---------------------------------------|--|--|-------------------------------------------------------------------------------------------------------------------------------|--|------------------|------------------------|--------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------|-----------|--|--|--|
| SEE SHEET 1<br>EC NO: UCP2010-1913<br>2010/02/03<br>DRAWN:KLANG<br>2010/03/24<br>CHKD:JSWENSON<br>2010/03/25<br>APPR:MBANAKIS<br><br>D2 | DESCRIPTION<br>REV | 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 PROJECTION | TITLE<br><br>I-PASS VERT CONNECTOR<br>INTERNAL ASSY W/SHELL<br>0.8MM PITCH I/O |           |  |  |  |
|                                                                                                                                         |                    |                                   |                                       |  |  | DRAWN BY<br>KLANG                                                                                                             |  | DATE<br>02/09/05 |                        |                                                                                                              |                                                                                |           |  |  |  |
|                                                                                                                                         |                    |                                   |                                       |  |  | CHECKED BY<br>JSWENSON                                                                                                        |  | DATE<br>02/09/05 |                        |                                                                                                              |                                                                                |           |  |  |  |
|                                                                                                                                         |                    |                                   |                                       |  |  | APPROVED BY<br>MBANAKIS                                                                                                       |  | DATE<br>02/02/05 |                        |                                                                                                              |                                                                                |           |  |  |  |
|                                                                                                                                         |                    |                                   |                                       |  |  | MATERIAL NO.                                                                                                                  |  | DOCUMENT NO.     |                        |                                                                                                              |                                                                                | SHEET NO. |  |  |  |
|                                                                                                                                         |                    |                                   |                                       |  |  | SEE CHART                                                                                                                     |  | SD-75784-001     |                        |                                                                                                              |                                                                                | 11 OF 12  |  |  |  |
|                                                                                                                                         |                    |                                   |                                       |  |  | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION |  |                  |                        |                                                                                                              |                                                                                |           |  |  |  |
|                                                                                                                                         |                    |                                   |                                       |  |  |                                                                                                                               |  |                  |                        |                                                                                                              |                                                                                |           |  |  |  |
|                                                                                                                                         |                    |                                   |                                       |  |  |                                                                                                                               |  |                  |                        |                                                                                                              |                                                                                |           |  |  |  |
|                                                                                                                                         |                    |                                   |                                       |  |  |                                                                                                                               |  |                  |                        |                                                                                                              |                                                                                |           |  |  |  |
|                                                                                                                                         |                    |                                   |                                       |  |  |                                                                                                                               |  |                  |                        |                                                                                                              |                                                                                |           |  |  |  |

# MATING INTERFACE (FOR REFERENCE ONLY)



## NOTES:

- PAD CONFIGURATION FOR FIRST MATE.
- PAD CONFIGURATION FOR SECOND MATE.
- PAD CONFIGURATION FOR THIRD MATE.  
(HIGH SPEED SIGNALS)
- FOR PIN ASSIGNMENTS AND MATING SEQUENCE  
(1ST, 2ND, 3RD), SEE APPLICABLE  
SPECIFICATION.
- 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>D2 | DRWN:KLANG     | 2010/02/03 | QUALITY<br>SYMBOL<br> =0<br> =0 | DESCRIPTION |
|                                          | CHK'D:JSWENSON | 2010/03/24 |                                                                                                                                                                                                           |             |
|                                          | APPR:MBANAKIS  | 2010/03/25 |                                                                                                                                                                                                           |             |
|                                          | REV            |            |                                                                                                                                                                                                           |             |

| 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 VERT CONNECTOR<br>INTERNAL ASSY W/SHELL<br>0.8MM PITCH I/O                                      |                        |                                                                                                                 |
|  MOLEX INCORPORATED        |                        |                                                                                                                 |
| DOCUMENT NO.<br>SD-75784-001                                                                                    |                        | SHEET NO.<br>12 OF 12                                                                                           |
| THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX<br>SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION |                        |                                                                                                                 |