

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

**Part Number:** [0757840159](#)  
**Status:** **Active**  
**Overview:** [ipass](#)  
**Description:** 0.80mm (.031") Pitch, iPass™ I/O SMT Receptacle, Vertical, Internal Application, 36 Circuit, 0.76µm (30µ") Gold (Au), Through Hole 3.56 Shell, Dual Key

**Documents:**

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

**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) 250  
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) 30.4  
Plating min: Mating (µm) 0.76  
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 |

**Solder Process Data**

|                                                |                           |
|------------------------------------------------|---------------------------|
| Duration at Max. Process Temperature (seconds) | 20                        |
| Lead-free Process Capability                   | Reflow Capable (SMT only) |
| Max. Cycles at Max. Process Temperature        | 1                         |
| Process Temperature max. C                     | 260                       |

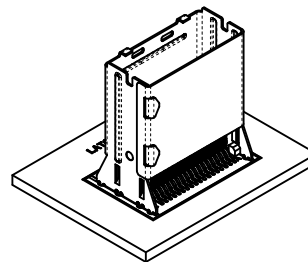
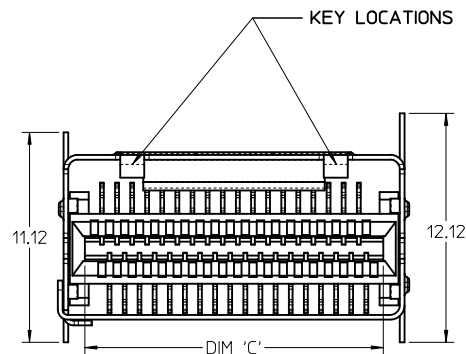
**Material Info**

**Reference - Drawing Numbers**

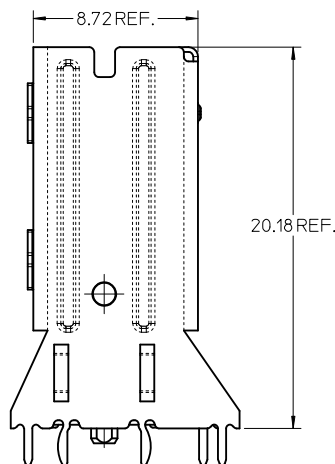
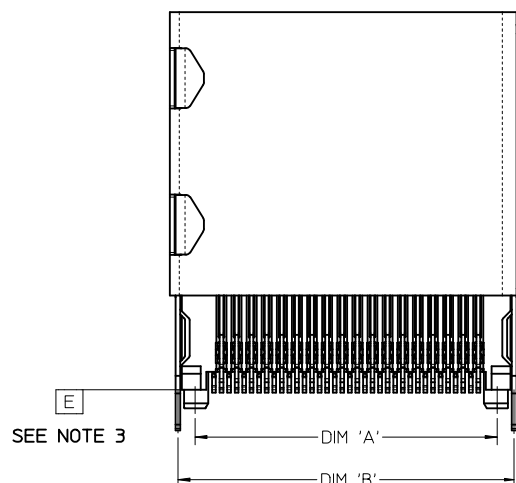
|                           |              |
|---------------------------|--------------|
| Application Specification | AS-75783-001 |
| Packaging Specification   | PK-75783-001 |
| Sales Drawing             | SD-75784-001 |

This document was generated on 05/28/2010

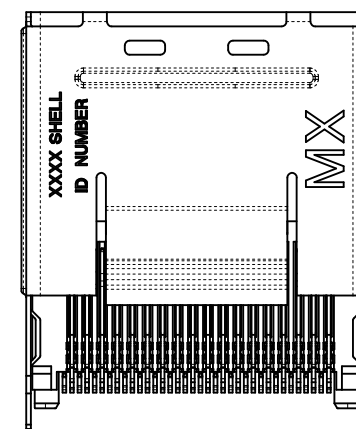
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- NOTES:
- MATERIAL:
    - CONNECTOR:
      - HOUSING - HIGH TEMPERATURE THERMOPLASTIC GLASS FILLED, UL 94V-0, BLACK
      - TERMINALS - COPPER ALLOY
    - SHELL:
      - NICKEL SILVER, C770, THICKNESS: 0.250/0.254
  - FINISH:
    - CONNECTOR
      - OPTION 1
        - CONTACT AREA - 0.38μm MIN GOLD OVER 2.54 μm NICKEL
        - SOLDER FOOT AREA - 2.54-5.09μm TIN OVER 1.27 μm NICKEL
      - OPTION 2
        - CONTACT AREA - 0.76μm MIN GOLD OVER 2.54 μm NICKEL
        - SOLDER FOOT AREA - 2.54-5.09μm TIN OVER 1.27 μm NICKEL
  - TERMINAL SOLDER FEET TO BE COPLANAR WITHIN 0.10 MEASURED FROM DATUM E
  - DATE CODE: 4 DIGIT (3 DIGIT DAY, 1 DIGIT YEAR) ON CONNECTOR ONLY
  - CIRCUIT IDENTIFIER: SEE APPROPRIATE INDUSTRY SPECIFICATION FOR LOCATION OF PIN 1
  - TO BE USED WITH THE FOLLOWING CABLE SERIES:  
79575/74563/79576/74573/79536/74562/74569/74586
  - PACKAGED PER PACKAGING SPECIFICATION: PK-75783-001
  - CONFORMS TO PRODUCT SPECIFICATION: PS-75783-001
  - PROCESS PER APPLICATION SPECIFICATION: AS-75783-001
  - THIS PART CONFORMS TO CLASS C REQUIREMENTS OF COSMETIC SPEC PS-45499-002



36 CIRCUIT  
RETENTION FIT  
SHELL OPTION SHOWN



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| 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

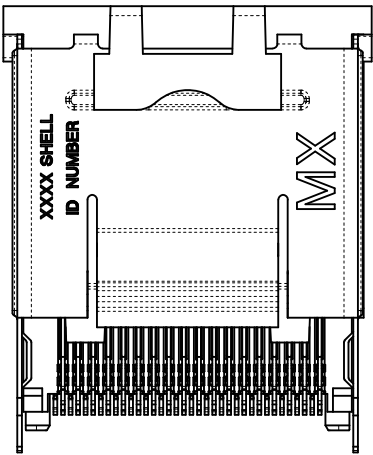
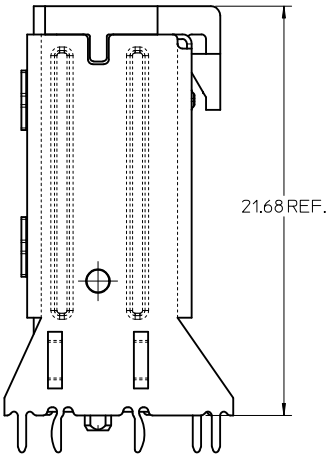
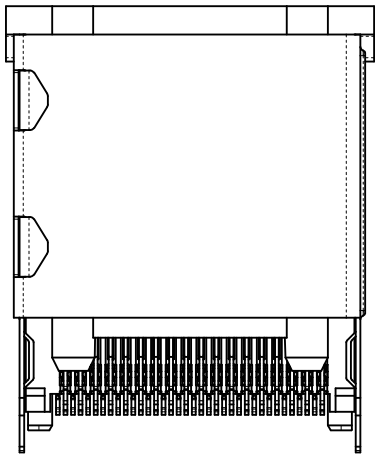
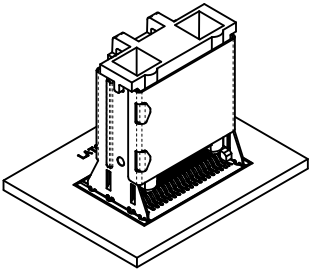
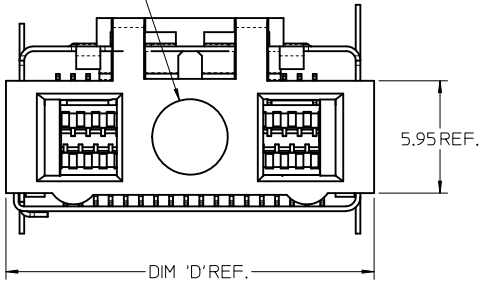
| GENERAL TOLERANCES (UNLESS SPECIFIED)                |       |
|------------------------------------------------------|-------|
| mm                                                   | INCH  |
| 4 PLACES ± ---                                       | ± --- |
| 3 PLACES ± ---                                       | ± --- |
| 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:

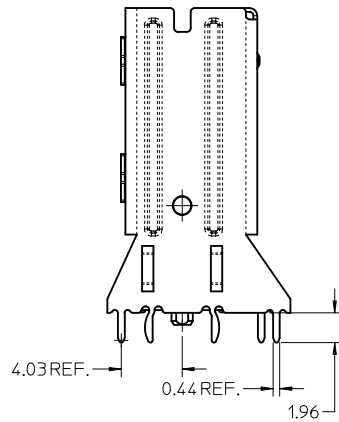
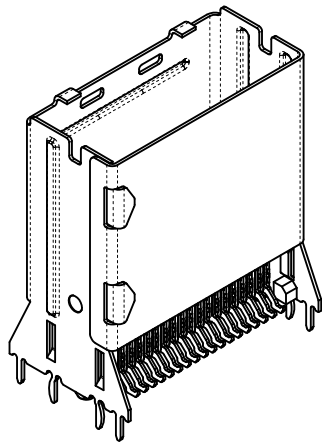
1. PICK AND PLACE LOCATION DEFINED ON APPLICATION SPECIFICATION AS-75783-001
2. PACKAGING CONSISTS OF CONNECTOR AND SHELL WITH A PRE-POSITIONING PICK AND PLACE DEVICE THAT ARE PACKAGED IN 'TAPE AND REEL' FOR ROBOTIC PICK AND PLACE.

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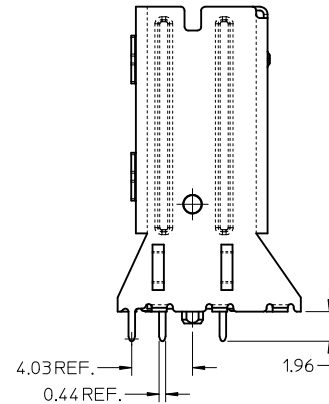
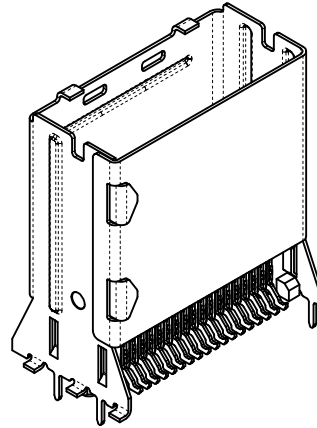
| CIRCUIT SIZE | DIM 'D' |
|--------------|---------|
| 26           | 15.50   |
| 36           | 19.50   |
| 50           | 25.10   |
| 68           | 32.30   |

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

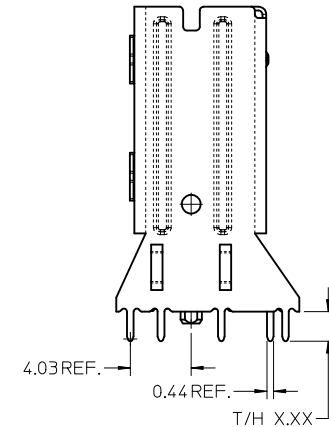
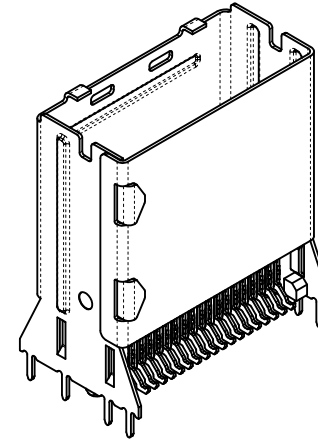
# SHELL PCB INTERFACE



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  
EC NO: UCP2010-1913  
DRAWN BY: DRWNLKANG  
CHKD: JSWENSON  
APPR: MBANAKIS  
REV: D2

QUALITY  
SYMBOLS  
▽=0  
▽=0

GENERAL TOLERANCES  
(UNLESS SPECIFIED)

|          | mm     | INCH    |
|----------|--------|---------|
| 4 PLACES | ± .005 | ± .0004 |
| 3 PLACES | ± .008 | ± .0003 |
| 2 PLACES | ± .013 | ± .0005 |
| 1 PLACE  | ± .025 | ± .0010 |

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.

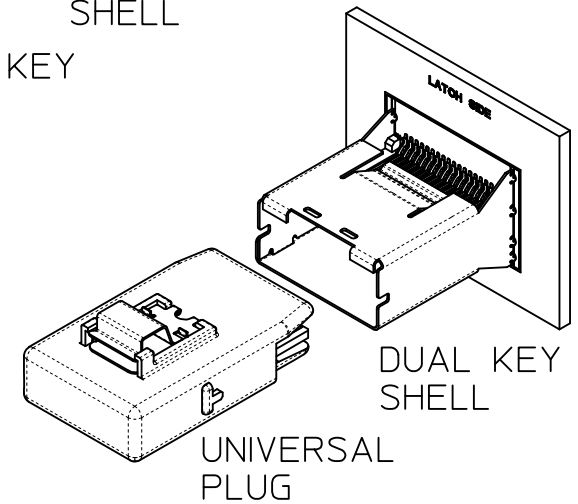
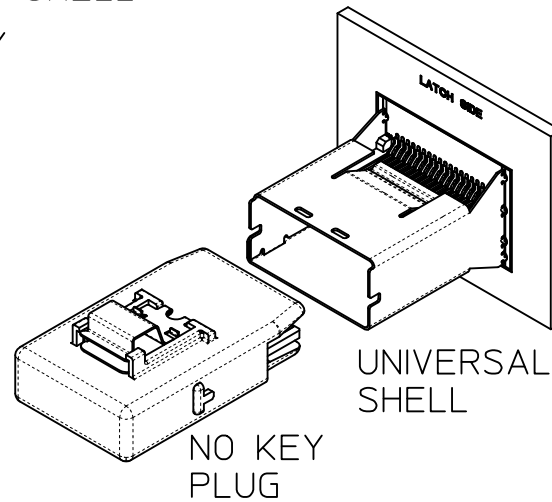
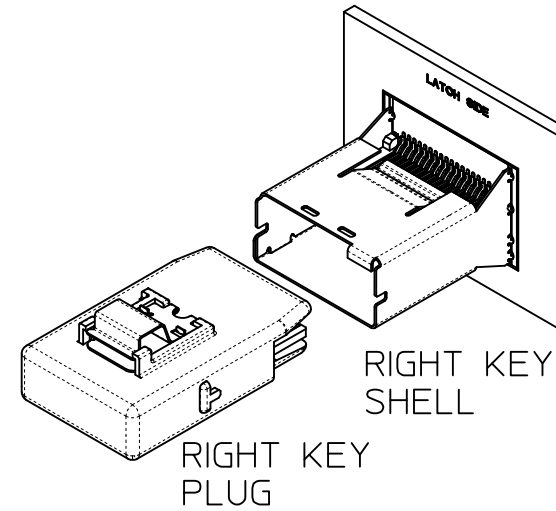
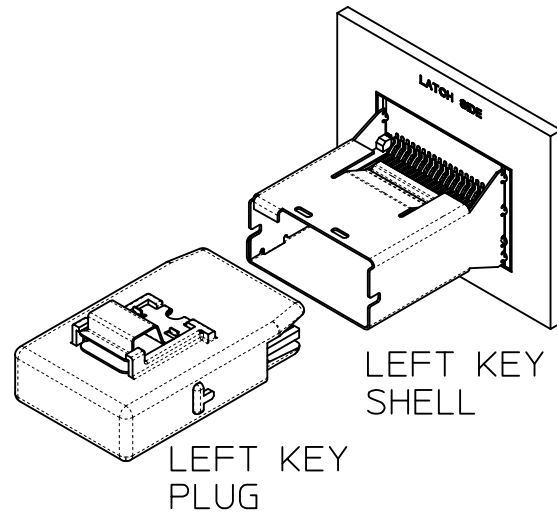
SEE CHART

SIZE C

|                                                                            |                        |                           |
|----------------------------------------------------------------------------|------------------------|---------------------------|
| SCALE<br>4:1                                                               | 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>3 OF 12   |                           |

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# 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  
DRAWN BY: DRWINKLANG  
CHKD: JSWENSON  
APPR: MBANAKIS

REVISION  
DESCRIPTION  
REV  
D2

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: KLANG  
DATE: 02/09/05

CHECKED BY: JSWENSON  
DATE: 02/09/05

APPROVED BY: MBANAKIS  
DATE: 02/02/05

MATERIAL NO.  
SEE CHART

SIZE  
C

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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 MOLEX INCORPORATED

DOCUMENT NO.  
SD-75784-001

SHEET NO.  
4 OF 12

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

## 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>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 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                                                           | MOLEX INCORPORATED     |                        |  |  |
|                                                                                                                              |                               |                                       |  | MATERIAL NO.                                                                                                                     |                  | DOCUMENT NO.<br>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 |                  |                                                                            |                        |                        |  |  |

# 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    | 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    |                                                                                     |                            |
|                                                                                                                                  |                                        |                               |                                       |              | 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 |                                   | 6 OF 12      |                     |                                                                                     |                            |
| 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           | 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<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.<br>SD-75784-001 |  | SHEET NO.<br>7 OF 12 |
| 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 |                  |                                                                                                        |                        |                              |  |                      |

## 68 CIRCUIT ITEM NUMBERS

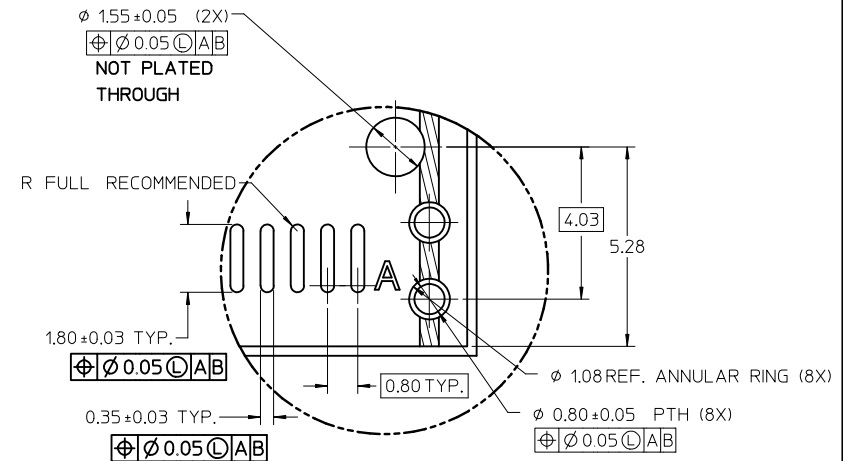
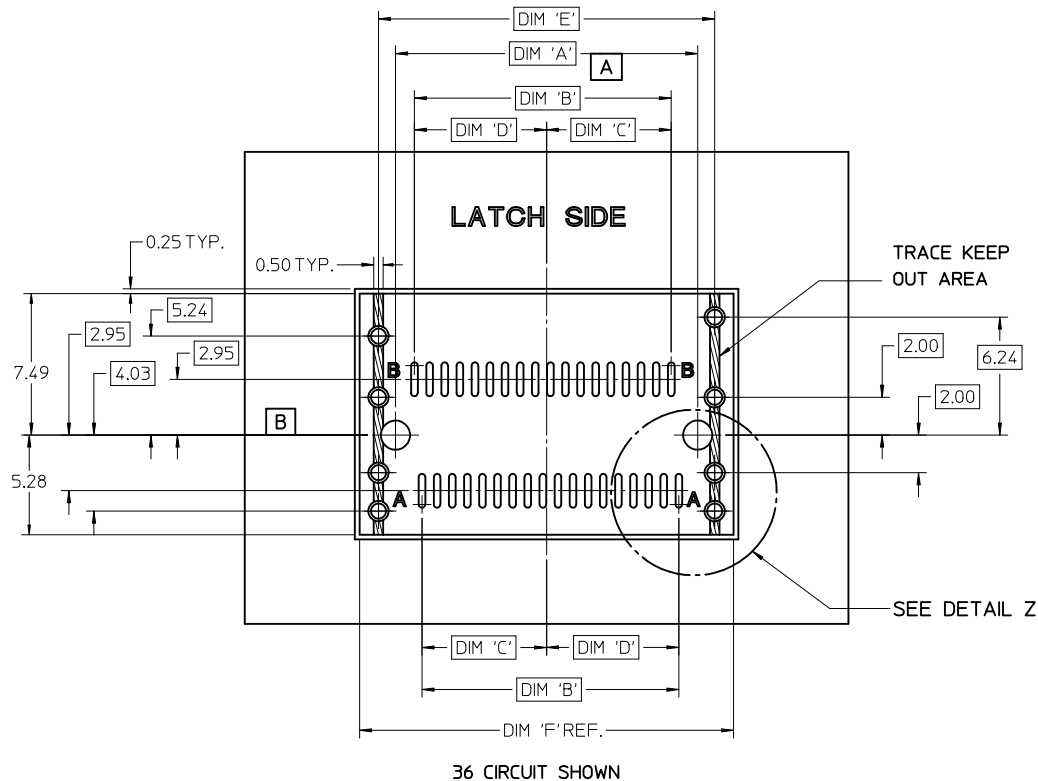
| CIRCUIT SIZE | ITEM NUMBER | PLATING OPTION | SHELL PCB OPTION | SHELL KEY OPTION |
|--------------|-------------|----------------|------------------|------------------|
| 68           | 75784-0307  | OPTION 1       | RETENTION        | LEFT             |
| 68           | 75784-0308  | OPTION 1       | 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: 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 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                                                                                                                 | MOLEX MOLEX INCORPORATED |                        |  |
|                                                                                                                                  |                               | ANGULAR ±1/2°                                              |  | MATERIAL NO.               |                  | DOCUMENT NO.                                                                                                                     |                          |                        |  |
|                                                                                                                                  |                               | DRAFT WHERE APPLICABLE<br>MUST REMAIN<br>WITHIN DIMENSIONS |  | SEE CHART                  |                  | SD-75784-001                                                                                                                     |                          |                        |  |
|                                                                                                                                  |                               |                                                            |  | 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

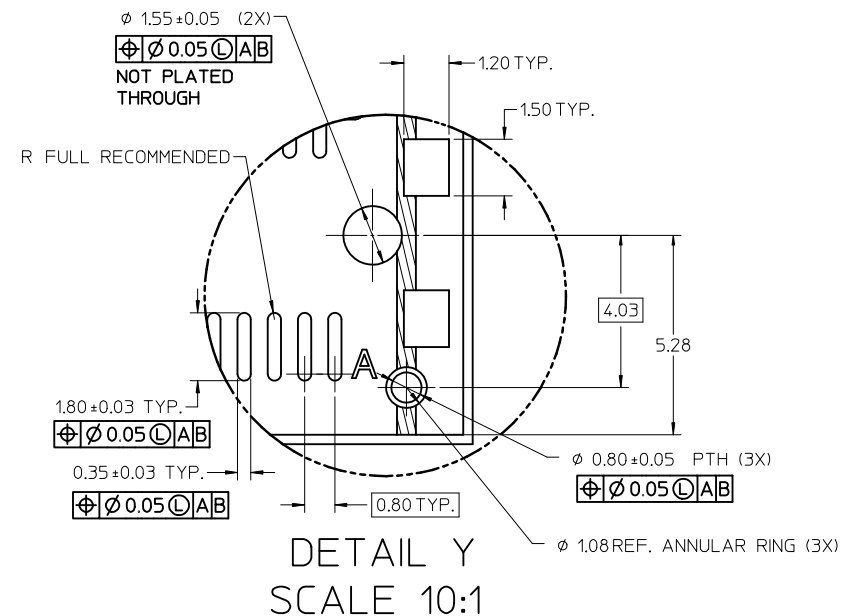
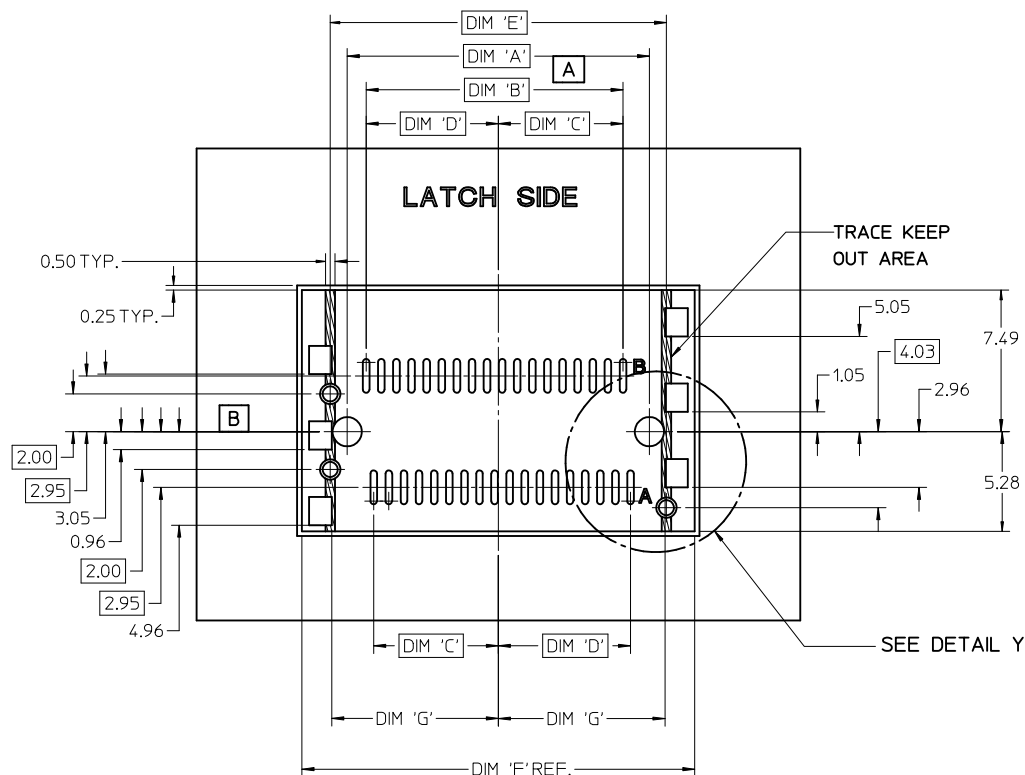


DETAIL Z  
SCALE 10:1

|              | 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 BY: DRWINKLANG<br>CHKD: JSWENSON<br>APPR: MBANAKIS<br>D2 | REV | DESCRIPTION<br>2010/02/03<br>2010/03/24<br>2010/03/25 | 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 PROJECTION | TITLE<br>I-PASS VERT CONNECTOR<br>INTERNAL ASSY W/SHELL<br>0.8MM PITCH I/O<br>MOLEX INCORPORATED |                      |
|                                                                                                      |     |                                                       |                               |                                       | mm     | INCH                                                                                                                             | DRAWN BY<br>KLANG       | DATE<br>02/09/05 | DOCUMENT NO.<br>SD-75784-001 |                        |                                                                                                  | SHEET NO.<br>9 OF 12 |
|                                                                                                      |     |                                                       |                               | 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 | ± ---                                                                                                                            |                         |                  |                              |                        |                                                                                                  |                      |
|                                                                                                      |     |                                                       |                               | 1 PLACE                               | ± 0.25 | ± ---                                                                                                                            |                         |                  |                              |                        |                                                                                                  |                      |
|                                                                                                      |     |                                                       |                               | ANGULAR ±1/2°                         |        |                                                                                                                                  |                         |                  |                              |                        |                                                                                                  |                      |
| DRAFT WHERE APPLICABLE<br>MUST REMAIN<br>WITHIN DIMENSIONS                                           |     |                                                       |                               | SEE CHART                             |        | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX<br>INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION |                         |                  |                              |                        |                                                                                                  |                      |

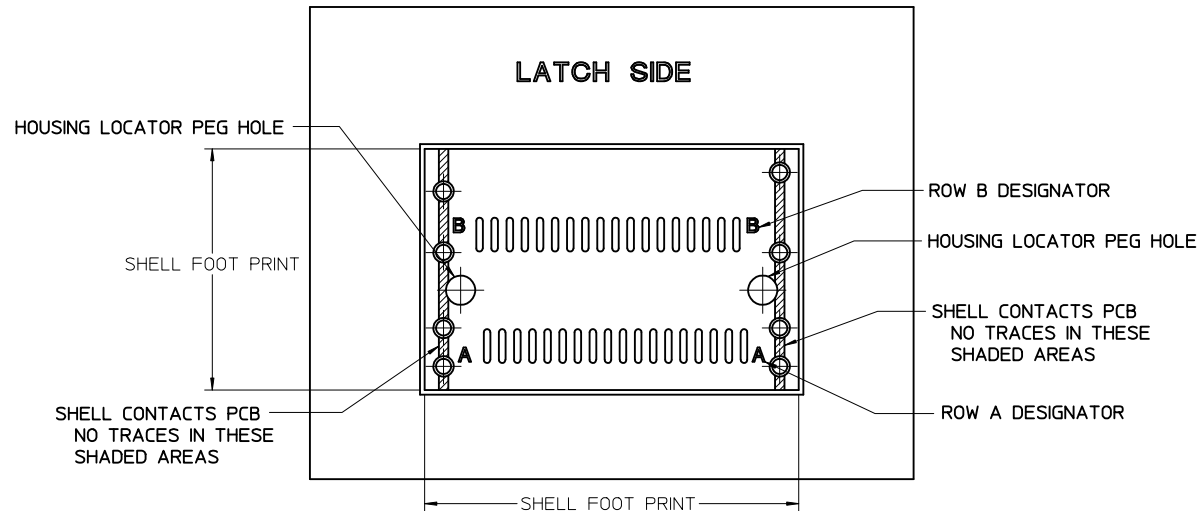
# VERTICAL CONNECTOR WITH SMT SHELL PCB FOOT PRINT



|              | 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 | 2010/02/03<br>2010/03/24<br>2010/03/25                     | QUALITY SYMBOLS<br><br>▽=0<br>▽=0 | DESCRIPTION | GENERAL TOLERANCES (UNLESS SPECIFIED) | mm                                                                                                                            |  | INCH                          |  | DIMENSION STYLE<br>MM ONLY |  | SCALE<br>5:1                                                                                | DESIGN UNITS<br>METRIC | THIRD ANGLE<br>PROJECTION |           |  |
|             |                                                                                 |                                                            |                                   |             |                                       | 4 PLACES ± --- ± ---                                                                                                          |  | KLANG 02/09/05                |  | TITLE                      |  | I-PASS VERT CONNECTOR<br>INTERNAL ASSY W/SHELL<br>0.8MM PITCH I/O<br><br>MOLEX INCORPORATED |                        |                           |           |  |
|             |                                                                                 |                                                            |                                   |             |                                       | 3 PLACES ± --- ± ---                                                                                                          |  | CHECKED BY JSWENSON 02/09/05  |  | DATE                       |  |                                                                                             |                        |                           |           |  |
|             |                                                                                 |                                                            |                                   |             |                                       | 2 PLACES ± 0.13 ± ---                                                                                                         |  | APPROVED BY MBANAKIS 02/02/05 |  | DOCUMENT NO.               |  |                                                                                             |                        |                           | SHEET NO. |  |
|             |                                                                                 |                                                            |                                   |             |                                       | 1 PLACE ± 0.25 ± ---                                                                                                          |  | ANGULAR ± 1/2°                |  | SD-75784-001               |  |                                                                                             |                        |                           | 10 OF 12  |  |
| D2          | REV                                                                             | DRAFT WHERE APPLICABLE<br>MUST REMAIN<br>WITHIN DIMENSIONS |                                   | SIZE C      |                                       | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION |  |                               |  |                            |  |                                                                                             |                        |                           |           |  |

# VERTICAL CONNECTOR WITH SHELL PCB FOOT PRINT DESCRIPTIONS

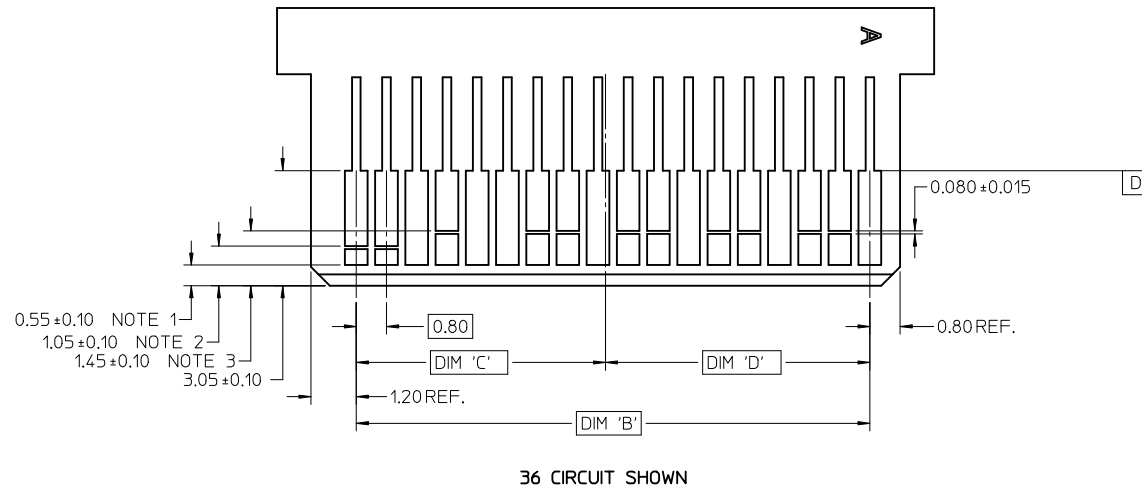
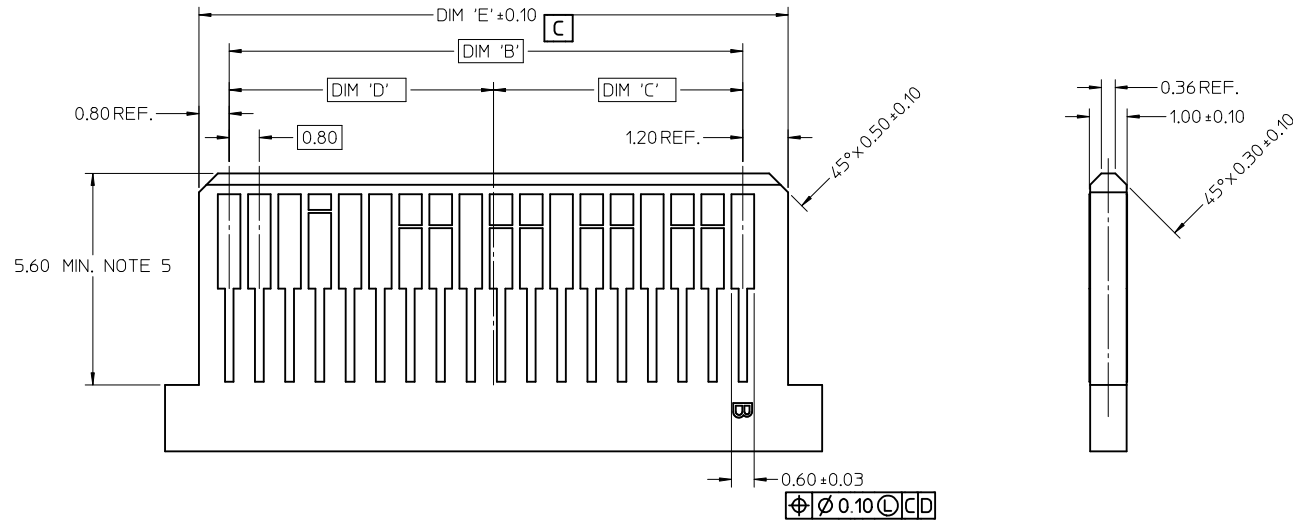


36 CIRCUIT SHOWN

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><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<br>PROJECTION | TITLE<br><br>I-PASS VERT CONNECTOR<br>INTERNAL ASSY W/SHELL<br>0.8MM PITCH I/O<br><br>MOLEX MOLEX INCORPORATED<br><br>DOCUMENT NO.<br>SD-75784-001 |
|                                                                                                                                         |                        |                                   |                                                            | mm     | INCH  | DRAWN BY<br>KLANG          | DATE<br>02/09/05 |                                                                                                                                  |                        |                           |                                                                                                                                                    |
|                                                                                                                                         |                        |                                   | 4 PLACES                                                   | ± ---  | ± --- | CHECKED BY                 | DATE             |                                                                                                                                  |                        |                           |                                                                                                                                                    |
|                                                                                                                                         |                        |                                   | 3 PLACES                                                   | ± ---  | ± --- | JSWENSON                   | 02/09/05         |                                                                                                                                  |                        |                           |                                                                                                                                                    |
|                                                                                                                                         |                        |                                   | 2 PLACES                                                   | ± 0.13 | ± --- | APPROVED BY                | DATE             |                                                                                                                                  |                        |                           |                                                                                                                                                    |
|                                                                                                                                         |                        |                                   | 1 PLACE                                                    | ± 0.25 | ± --- | MBANAKIS                   | 02/02/05         |                                                                                                                                  |                        |                           |                                                                                                                                                    |
|                                                                                                                                         |                        |                                   | ANGULAR ±1/2°                                              |        |       | MATERIAL NO.               |                  | SHEET NO.                                                                                                                        |                        |                           |                                                                                                                                                    |
|                                                                                                                                         |                        |                                   | DRAFT WHERE APPLICABLE<br>MUST REMAIN<br>WITHIN DIMENSIONS |        |       | SEE CHART                  |                  | SD-75784-001<br>11 OF 12                                                                                                         |                        |                           |                                                                                                                                                    |
|                                                                                                                                         |                        |                                   |                                                            |        |       | SIZE                       |                  | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX<br>INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION |                        |                           |                                                                                                                                                    |
|                                                                                                                                         |                        |                                   |                                                            |        |       |                            |                  |                                                                                                                                  |                        |                           |                                                                                                                                                    |

# MATING INTERFACE (FOR REFERENCE ONLY)



## NOTES:

- 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.

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| 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>DRWN:KLANG<br>CHKD:JSWENSON<br>APPR:MBANAKIS | 2010/02/03  |
|                                                                                    | 2010/03/24  |
| REV                                                                                | DESCRIPTION |
| 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<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                       |          |
| C                          |          |

|                                                                                                          |                        |                                                                                                                 |
|----------------------------------------------------------------------------------------------------------|------------------------|-----------------------------------------------------------------------------------------------------------------|
| 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                                                                                           |
| AINS INFORMATION THAT IS PROPRIETARY TO MOLEX<br>SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION           |                        |                                                                                                                 |