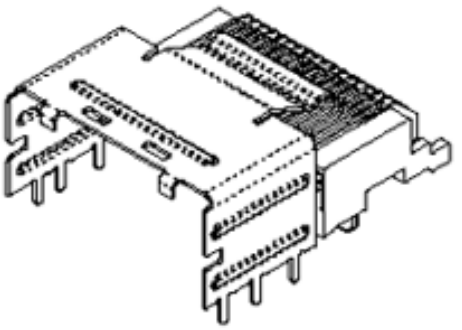
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This document was generated on 05/28/2010

# PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

**Part Number:** 0757830153
**Status:** Active
**Overview:** ipass
**Description:** 0.80mm (.031") Pitch, iPass™ I/O SMT Receptacle, Right Angle, Internal Application, 36 Circuit,0.38µm (15µ") Gold (Au), Through Hole Shell, Left Key



*Series image - Reference only*

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

## Agency Certification

| | |
|---|---|
| CSA | LR19980 |
| UL | E29179 |

## General

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

## Physical

| | |
|---|---|
| Boot Color | N/A |
| Circuits (Loaded) | 36 |
| Circuits (maximum) | 36 |
| Color - Resin | Black |
| Durability (mating cycles max) | 25 |
| Flammability | 94V-0 |
| Gender | Receptacle |
| Keying to Mating Part | Yes |
| Lock to Mating Part | None |
| Material - Metal | Copper-Nickel-Zinc, High Performance Alloy (HPA) |
| Material - Plating Mating | Gold |
| Material - Plating Termination | Tin |
| Material - Resin | High Temperature Thermoplastic |
| Number of Rows | 2 |
| Orientation | Right Angle |
| PCB Locator | Yes |
| PCB Retention | Yes |
| PCB Thickness Recommended (in) | 0.140 In |
| PCB Thickness Recommended (mm) | 3.56 mm |
| Packaging Type | Embossed Tape on Reel |
| Panel Mount | No |
| Pitch - Mating Interface (in) | 0.031 In |
| Pitch - Mating Interface (mm) | 0.80 mm |
| Pitch - Term. Interface (in) | 0.031 In |
| Pitch - Term. Interface (mm) | 0.80 mm |
| Plating min: Mating (µin) | 15.2 |
| Plating min: Mating (µm) | 0.38 |
| Plating min: Termination (µin) | 101.6 |
| Plating min: Termination (µm) | 2.54 |
| Polarized to Mating Part | Yes |
| Polarized to PCB | Yes |

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

**China RoHS**

**Need more information on product environmental compliance?**

Email productcompliance@molex.com
For a multiple part number RoHS Certificate of Compliance, click here

Please visit the Contact Us section for any non-product compliance questions.

**Search Parts in this Series**
75783Series

**Mates With**
iPass™ Cable Assemblies, 79575 , 79576 , 74562 , 74563 , 79536 , 74573 , 74569 , 74586

| | |
|---|---|
| Ports | 1 |
| Surface Mount Compatible (SMC) | Yes |
| Temperature Range - Operating | -40°C to +80°C |
| Termination Interface: Style | Surface Mount |
| Waterproof / Dustproof | No |
| Wire Insulation Diameter | N/A |
| Wire Size AWG | N/A |

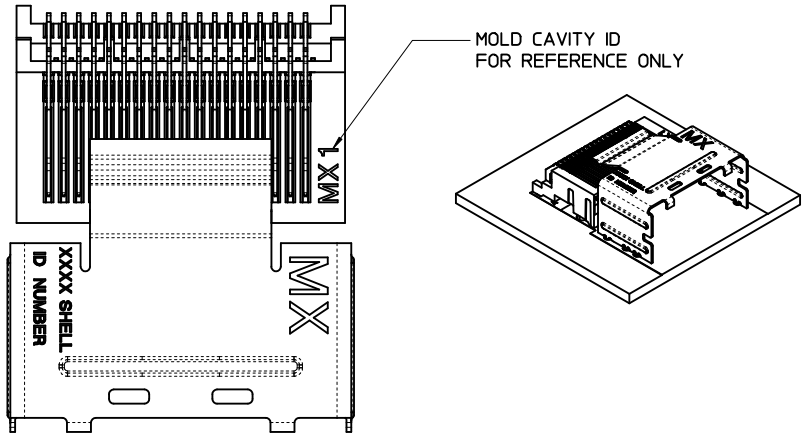
## Electrical

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

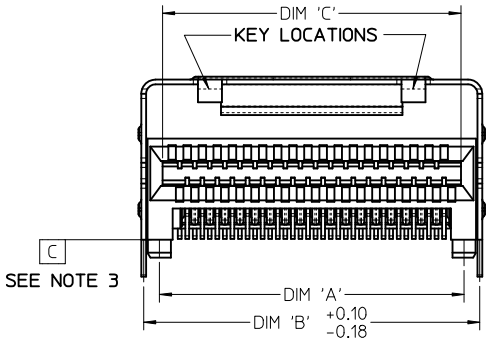
## Material Info

## Reference - Drawing Numbers

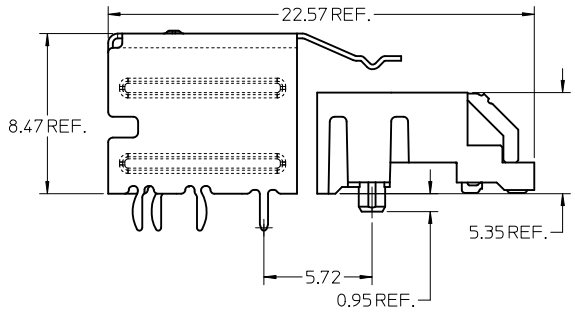
| | |
|---|---|
| Application Specification | AS-75783-001 |
| Packaging Specification | PK-75783-001 |
| Product Specification | PS-75783-001 |
| Sales Drawing | SD-75783-001 |




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




36 CIRCUIT
RETENTION FIT
SHELL OPTION SHOWN




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

iPass™ IS A TRADEMARK OF MOLEX

GEOMETRY UPDATE
EC NO: UCP2010-1913 2010/02/03
DRWN:KLANG 2010/03/24
CH'KD:JSWENSON 2010/03/25
APPR:MBANAKIS
DESCRIPTION
REV D1

QUALITY SYMBOLS
▼=0
▽C=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
SCALE: 5:1
DESIGN UNITS: METRIC
THIRD ANGLE PROJECTION

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

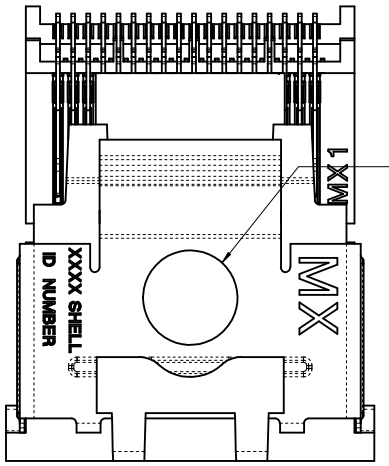
TITLE: I-PASS R/A CONNECTOR INTERNAL ASSY W/SHELL 0.8MM PITCH I/O

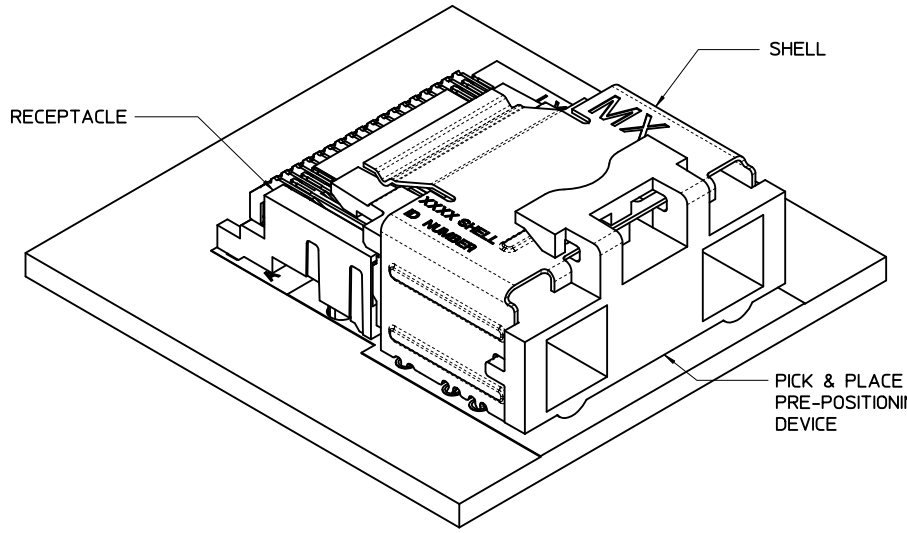
molex MOLEX INCORPORATED

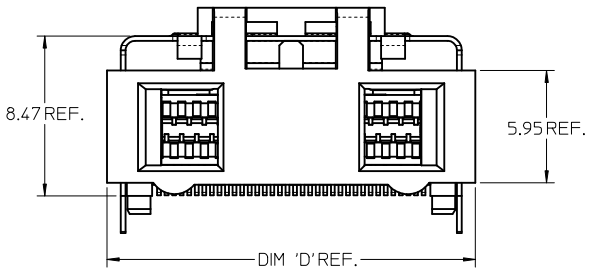
MATERIAL NO.: SEE CHART
DOCUMENT NO.: SD-75783-001
SHEET NO.: 1 OF 12
SIZE: C

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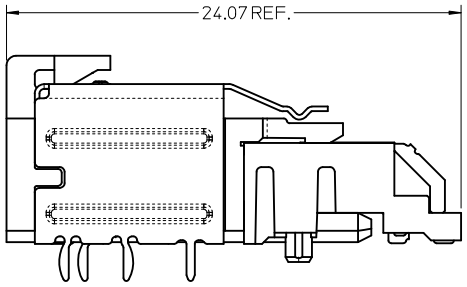
# ASSEMBLY WITH PRE-POSITION DEVICE




36 CIRCUIT RETENTION-FIT SHELL OPTION SHOWN




NOTES:

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

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

SEE SHEET 1
EC NO: UCP2010-1913 2010/02/03
DRWN:KLANG 2010/03/24
CH'KD:JSWENSON 2010/03/25
APPR:MBANAKIS
DESCRIPTION
D1
REV

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
SCALE: 5:1
DESIGN UNITS: METRIC
THIRD ANGLE PROJECTION

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

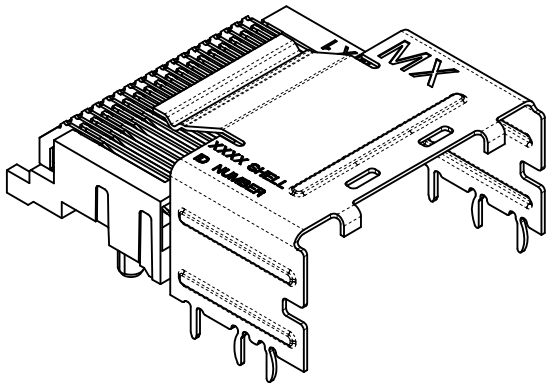
TITLE: I-PASS R/A CONNECTOR INTERNAL ASSY W/SHELL 0.8MM PITCH I/O

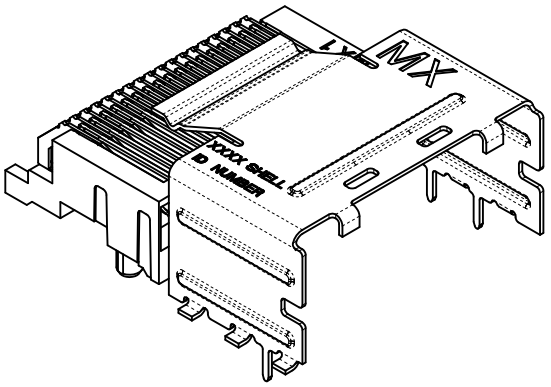
molex MOLEX INCORPORATED

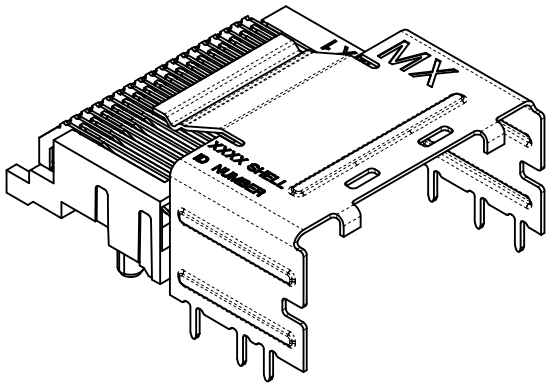
MATERIAL NO.: SEE CHART
DOCUMENT NO.: SD-75783-001
SHEET NO.: 2 OF 12
SIZE: C

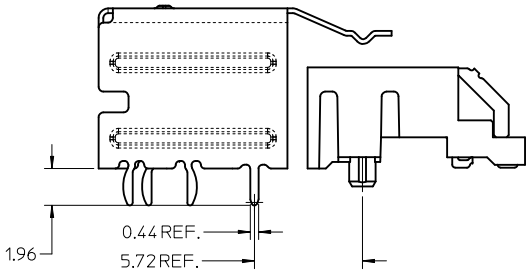
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# SHELL PCB INTERFACE

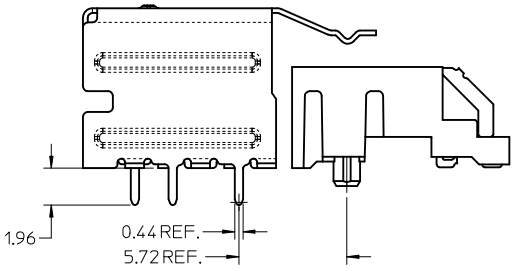


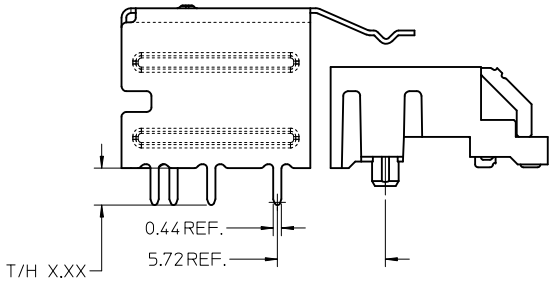




RETENTION-FIT
SHELL OPTION




SMT SHELL OPTION




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

RECOMMENDED PCB THICKNESS
FOR SPECIFIED TAIL LENGTH

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

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

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SEE SHEET 1
EC NO: UCP2010-1913 2010/02/03
DRWN:KLANG 2010/03/24
CH'KD:JSWENSON 2010/03/25
APPR:MBANAKIS
DESCRIPTION
D1
REV

QUALITY SYMBOLS
▼=0
▽(C)=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
SCALE: 5:1
DESIGN UNITS: METRIC
THIRD ANGLE PROJECTION

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

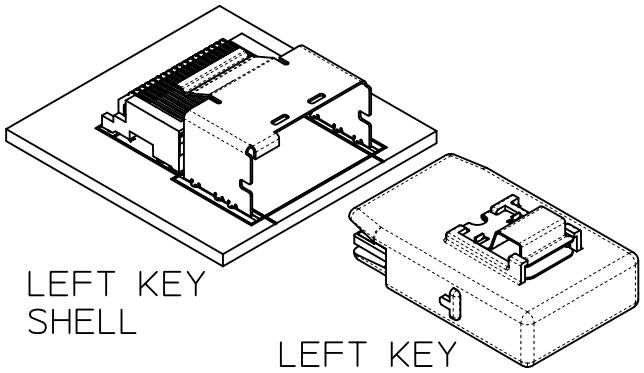
TITLE: I-PASS R/A CONNECTOR INTERNAL ASSY W/SHELL 0.8MM PITCH I/O

MOLEX INCORPORATED

MATERIAL NO.: SEE CHART
DOCUMENT NO.: SD-75783-001
SHEET NO.: 3 OF 12
SIZE: C

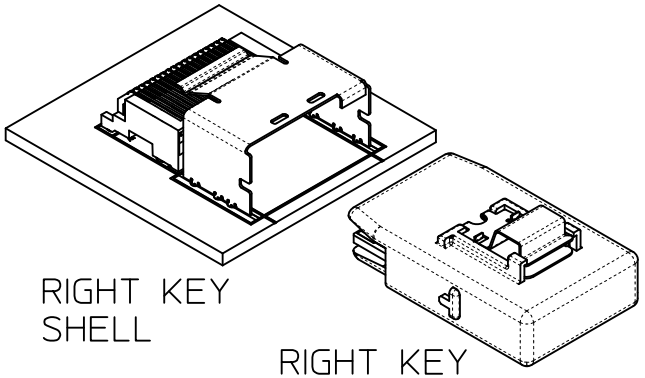
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# KEYING OPTIONS



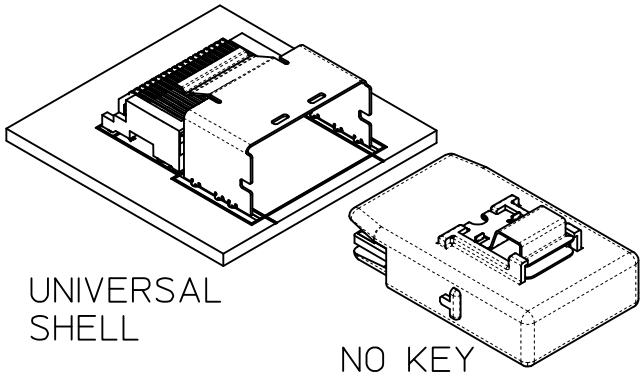
LEFT KEY SHELL

LEFT KEY PLUG



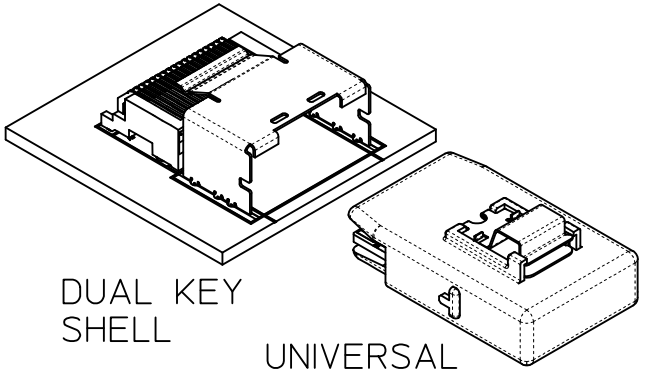
RIGHT KEY SHELL

RIGHT KEY PLUG



UNIVERSAL SHELL

NO KEY PLUG



DUAL KEY SHELL

UNIVERSAL PLUG

| | 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 |

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SEE SHEET 1
EC NO: UCP2010-1913 2010/02/03
DRWN:KLANG 2010/03/24
CHKD:JSWENSON 2010/03/25
APPR:MBANAKIS
DESCRIPTION
REV
D1

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
SCALE: 2:1
DESIGN UNITS: METRIC
THIRD ANGLE PROJECTION

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

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

MOLEX INCORPORATED

MATERIAL NO.: SEE CHART
DOCUMENT NO.: SD-75783-001
SHEET NO.: 4 OF 12
SIZE: C

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

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

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SEE SHEET 1
EC NO: UCP2010-1913 2010/02/03
DRWN:KLANG 2010/03/24
CH'KD:JSWENSON
APPR:MBANAKIS 2010/03/25
DESCRIPTION
REV
D1

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
SCALE: 2:1
DESIGN UNITS: METRIC
THIRD ANGLE PROJECTION

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

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

molex MOLEX INCORPORATED

MATERIAL NO.: SEE CHART
DOCUMENT NO.: SD-75783-001
SHEET NO.: 5 OF 12

SIZE C

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

# 36 CIRCUIT ITEM NUMBERS

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

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

iPass™ IS A TRADEMARK OF MOLEX

ENTER DESCRIPTION
EC NO: UCP2010-1913 2010/02/03
DRWN:KLANG 2010/03/24
CHKD:JSWENSON 2010/03/25
APPR:MBANAKIS 2010/03/25
DESCRIPTION
D1
REV

QUALITY SYMBOLS
▼=0
▽C=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
SCALE: 2:1
DESIGN UNITS: METRIC
THIRD ANGLE PROJECTION

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

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

molex MOLEX INCORPORATED

MATERIAL NO.: SEE CHART
DOCUMENT NO.: SD-75783-001
SHEET NO.: 6 OF 12
SIZE: C

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

# 50 CIRCUIT ITEM NUMBERS

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

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

iPass™ IS A TRADEMARK OF MOLEX

SEE SHEET 1
EC NO: UCP2010-1913 2010/02/03
DRWN:KLANG 2010/03/24
CH'KD:JSWENSON
APPR:MBANAKIS 2010/03/25
DESCRIPTION
REV
D1

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
SCALE: 2:1
DESIGN UNITS: METRIC
THIRD ANGLE PROJECTION

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

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

molex MOLEX INCORPORATED

MATERIAL NO.: SEE CHART
DOCUMENT NO.: SD-75783-001
SHEET NO.: 7 OF 12

SIZE C

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

# 68 CIRCUIT ITEM NUMBERS

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

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

iPass™ IS A TRADEMARK OF MOLEX

SEE SHEET 1
EC NO: UCP2010-1913 2010/02/03
DRWN:KLANG 2010/03/24
CH'KD:JSWENSON 2010/03/25
APPR:MBANAKIS
DESCRIPTION
D1
REV

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
SCALE: 2:1
DESIGN UNITS: METRIC
THIRD ANGLE PROJECTION

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

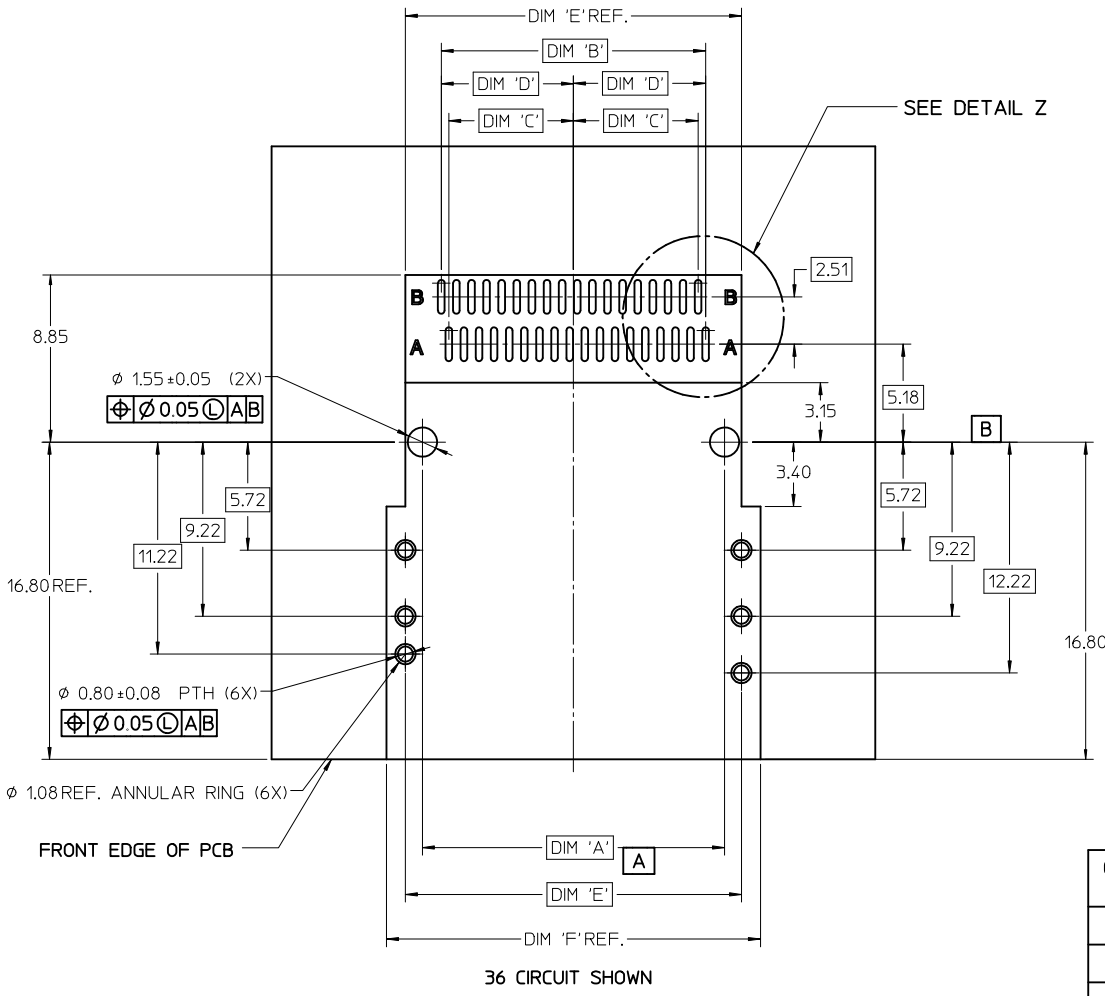
TITLE: I-PASS R/A CONNECTOR INTERNAL ASSY W/SHELL 0.8MM PITCH I/O

molex MOLEX INCORPORATED

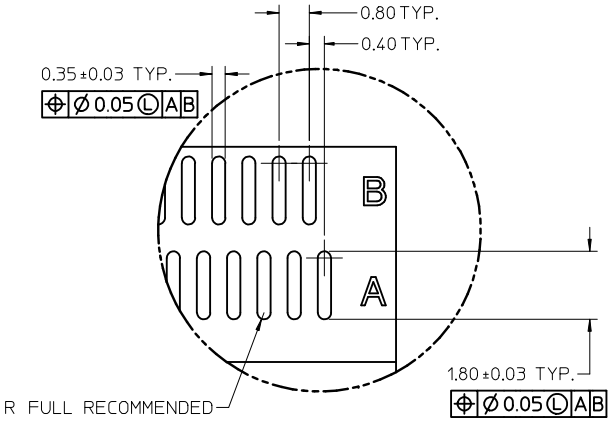
MATERIAL NO.: SEE CHART
DOCUMENT NO.: SD-75783-001
SHEET NO.: 8 OF 12
SIZE: C

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

# RIGHT ANGLE CONNECTOR
# WITH RETENTION FIT & THRU-HOLE SHELL
# PCB FOOT PRINT




36 CIRCUIT SHOWN




## DETAIL Z
## SCALE 10:1

| CIRCUIT SIZE | DIM 'A' PEG TO PEG | DIM 'B' FIRST PAD TO LAST PAD | DIM 'C' CENTERLINE TO PAD | DIM 'D' CENTERLINE TO PAD | DIM 'E' CONNECTOR WIDTH SHELL PEG TO PEG | DIM 'F' SHELL FOOTPRINT WIDTH |
|---|---|---|---|---|---|---|
| 26 | 12.00 | 10.00 | 4.60 | 5.00 | 13.80 | 15.80 |
| 36 | 16.00 | 14.00 | 6.60 | 7.00 | 17.80 | 19.80 |
| 50 | 21.60 | 19.60 | 9.40 | 9.80 | 23.40 | 25.40 |
| 68 | 28.80 | 26.80 | 13.00 | 13.40 | 30.60 | 32.60 |

iPass™ IS A TRADEMARK OF MOLEX

SEE SHEET 1
EC NO: UCP2010-1913 2010/02/03
DRWN:KLANG 2010/03/24
CH'KD:JSWENSON 2010/03/25
APPR:MBANAKIS
DESCRIPTION
D1
REV

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
SCALE: 5:1
DESIGN UNITS: METRIC
THIRD ANGLE PROJECTION

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

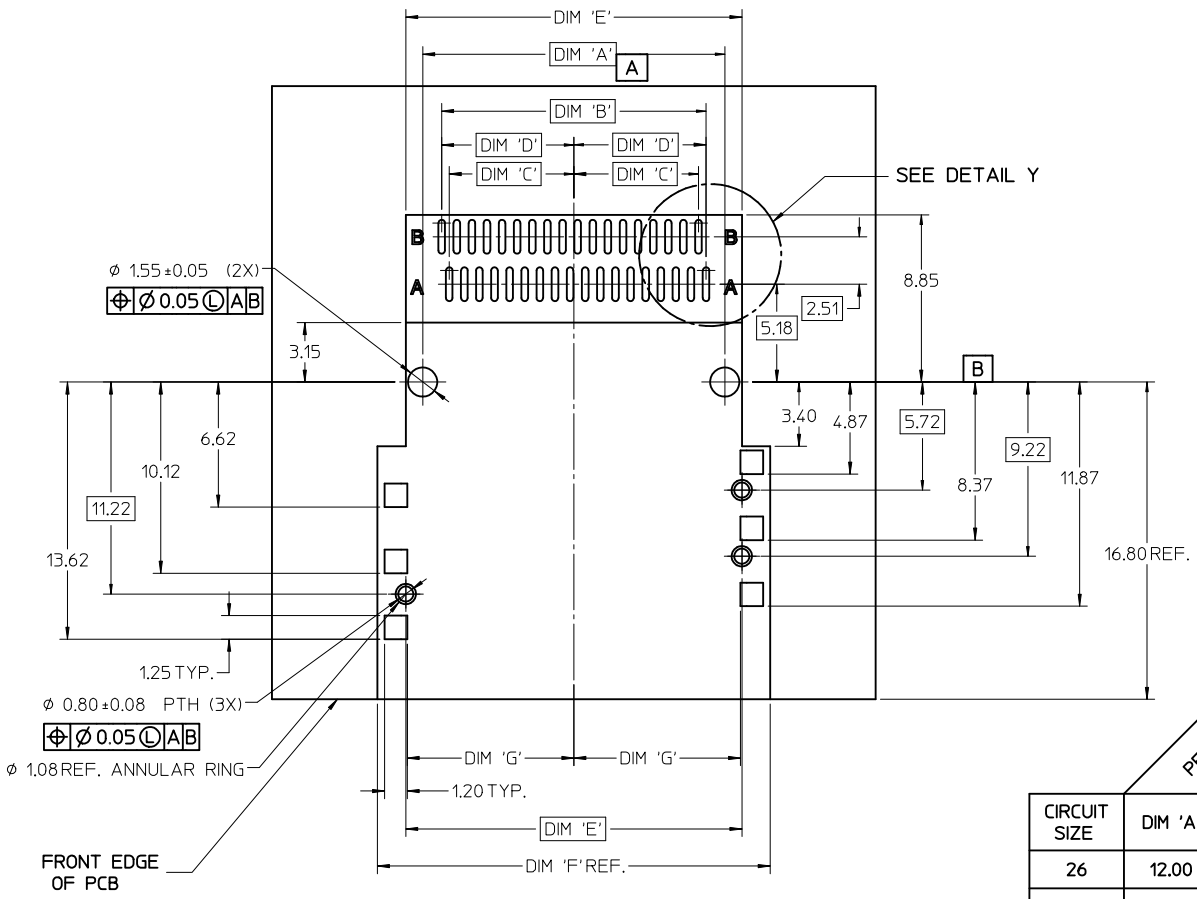
TITLE: I-PASS R/A CONNECTOR INTERNAL ASSY W/SHELL 0.8MM PITCH I/O

molex MOLEX INCORPORATED

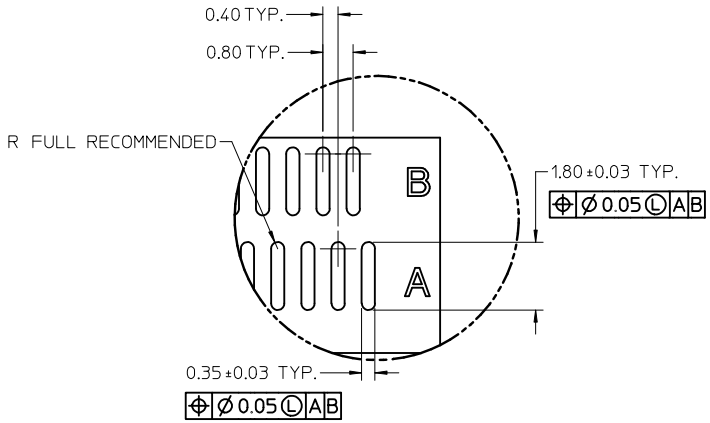
MATERIAL NO.: SEE CHART
DOCUMENT NO.: SD-75783-001
SHEET NO.: 9 OF 12
SIZE: C

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

# RIGHT ANGLE CONNECTOR
# WITH SMT SHELL
# PCB FOOT PRINT




36 CIRCUIT SHOWN




## DETAIL Y
## SCALE 10:1

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

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SEE SHEET 1
EC NO: UCP2010-1913 2010/02/03
DRWN:KLANG 2010/03/24
CH'KD:JSWENSON 2010/03/25
APPR:MBANAKIS 2010/03/25
DESCRIPTION
D1
REV

QUALITY SYMBOLS
▼=0
▽C=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
SCALE: 5:1
DESIGN UNITS: METRIC
THIRD ANGLE PROJECTION

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

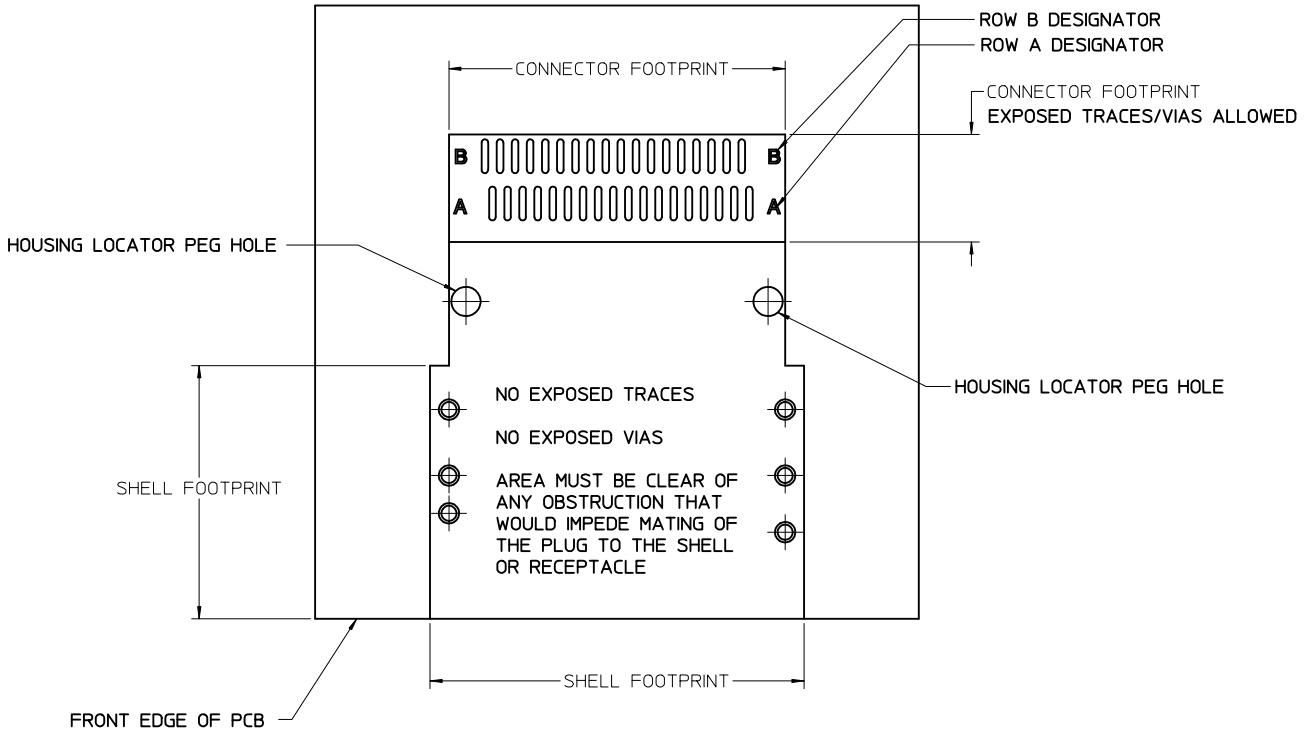
TITLE: I-PASS R/A CONNECTOR INTERNAL ASSY W/SHELL 0.8MM PITCH I/O

molex MOLEX INCORPORATED

MATERIAL NO.: SEE CHART
DOCUMENT NO.: SD-75783-001
SHEET NO.: 10 OF 12
SIZE: C

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

# RIGHT ANGLE CONNECTOR WITH SHELL
# PCB FOOT PRINT DESCRIPTIONS




36 CIRCUIT SHOWN

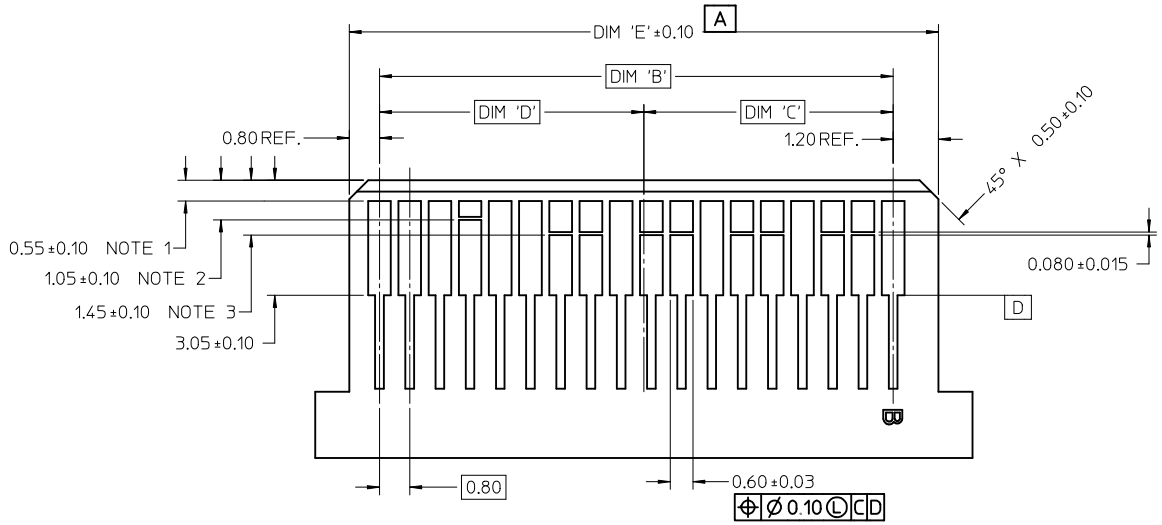
NOTE: IF RECEPTACLE AND SHELL ARE NOT PLACED AT EDGE OF PCB AS SHOWN, ADDITIONAL CLEARANCE IS NEEDED FOR BODY OF PLUG AND CABLE

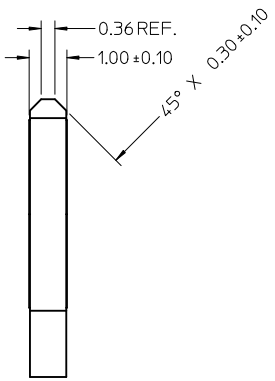
iPass™ IS A TRADEMARK OF MOLEX

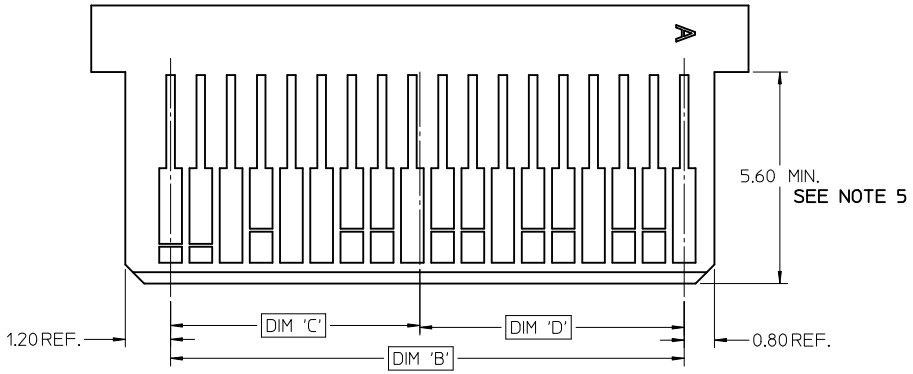
| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| SEE SHEET 1<br>EC NO: UCP2010-1913<br>DRWN:KLANG 2010/02/03<br>CH'KD:JSWENSON 2010/03/24<br>APPR:MBANAKIS 2010/03/25<br>DESCRIPTION<br>D1<br>REV | QUALITY SYMBOLS<br>▼=0<br>▽C=0 | GENERAL TOLERANCES (UNLESS SPECIFIED)<br>mm / INCH<br>4 PLACES ± --- / ± ---<br>3 PLACES ± --- / ± ---<br>2 PLACES ± 0.13 / ± ---<br>1 PLACE ± 0.25 / ± ---<br>ANGULAR ±1/2°<br>DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS | DIMENSION STYLE<br>MM ONLY<br>DRAWN BY KLANG DATE 02/09/05<br>CHECKED BY JSWENSON DATE 02/09/05<br>APPROVED BY MBANAKIS DATE 02/02/05<br>MATERIAL NO.<br>SEE CHART | SCALE<br>5:1 | DESIGN UNITS<br>METRIC | THIRD ANGLE PROJECTION<br>TITLE<br>I-PASS R/A CONNECTOR<br>INTERNAL ASSY W/SHELL<br>0.8MM PITCH I/O<br>molex MOLEX INCORPORATED<br>DOCUMENT NO. SD-75783-001<br>SHEET NO. 11 OF 12<br>SIZE C | | |

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

# MATING INTERFACE (FOR REFERENCE ONLY)




36 CIRCUIT SHOWN

NOTES:
1. PAD CONFIGURATION FOR FIRST MATE.
2. PAD CONFIGURATION FOR SECOND MATE.
3. PAD CONFIGURATION FOR THIRD MATE. (HIGH SPEED SIGNALS)
4. FOR PIN ASSIGNMENTS AND MATING SEQUENCE (1ST, 2ND, 3RD), SEE APPLICABLE SPECIFICATION.
5. MINIMUM STEP REQUIRED IF PCB MADE WIDER THAN TOUNGE.

| CIRCUIT SIZE | TERM/SIDE '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 |

iPass™ IS A TRADEMARK OF MOLEX

SEE SHEET 1
EC NO: UCP2010-1913 2010/02/03
DRWN:KLANG 2010/03/24
CH'KD:JSWENSON
APPR:MBANAKIS 2010/03/25
DESCRIPTION
D1
REV

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
SCALE: 10:1
DESIGN UNITS: METRIC
THIRD ANGLE PROJECTION

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

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

MOLEX INCORPORATED

MATERIAL NO.: SEE CHART
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