

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

**Part Number:** [0755860004](#)  
**Status:** **Active**  
**Overview:** [ipass](#)  
**Description:** 0.80mm (.031") Pitch, iPass™ I/O SMT Receptacle, Right Angle, External Application, 26 Circuit, 0.38µm (15µ") Gold (Au)

**Documents:**

[3D Model](#) [Product Specification PS-75586-001 \(PDF\)](#)  
[Drawing \(PDF\)](#) [RoHS Certificate of Compliance \(PDF\)](#)

**Agency Certification**

CSA LR19980  
 UL E29179

**General**

Product Family I/O Connectors  
 Series [75586](#)  
 Application Wire-to-Board  
 Component Type Receptacle  
 Overview [ipass](#)  
 Product Name iPass™, PCI Express\*, SAS  
 Type N/A

**Physical**

Boot Color N/A  
 Circuits (Loaded) 26  
 Circuits (maximum) 26  
 Color - Resin Black  
 Durability (mating cycles max) 50  
 Flammability 94V-0  
 Gender Female  
 Keying to Mating Part None  
 Lock to Mating Part None  
 Material - Metal 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 None  
 PCB Thickness Recommended (in) 0.053 In  
 PCB Thickness Recommended (mm) 1.35 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  
 Ports 1

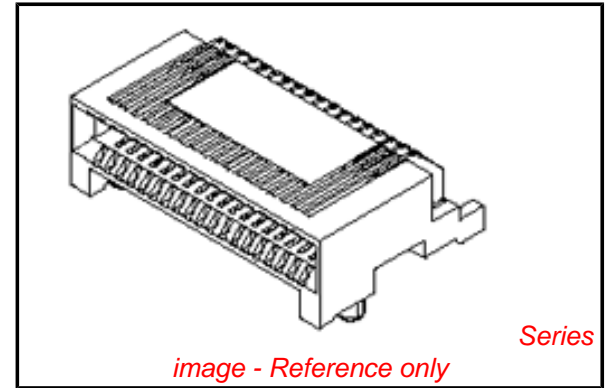


image - Reference only

**EU RoHS**

**ELV and RoHS  
 Compliant**  
**REACH SVHC**  
 Not Reviewed  
**Halogen-Free  
 Status**

**China RoHS**



**Not Reviewed**

**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**

[75586Series](#)

**Mates With**

[74547 iPass™ Cable Assembly](#)

**Use With**

[74548 I/O Connectors](#)

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	N/A
Shielded	No
Voltage - Maximum	30V AC (RMS)/DC

### **Solder Process Data**

Lead-free Process Capability	Reflow Capable (SMT only)
Process Temperature max. C	260

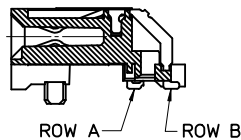
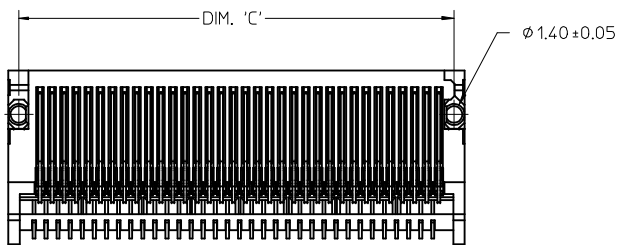
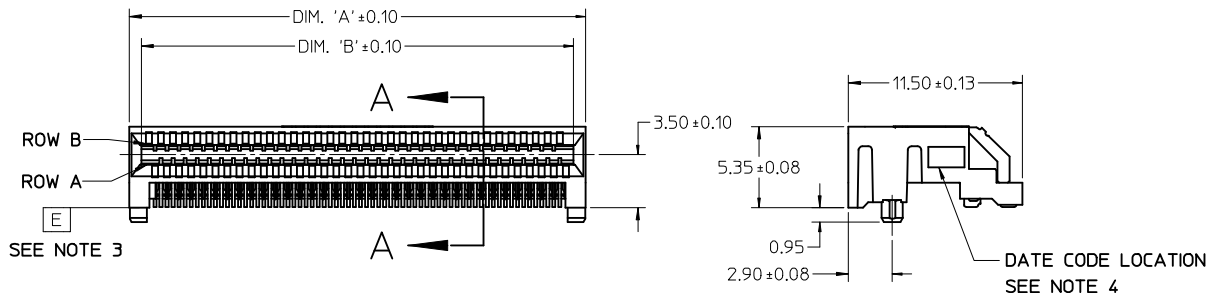
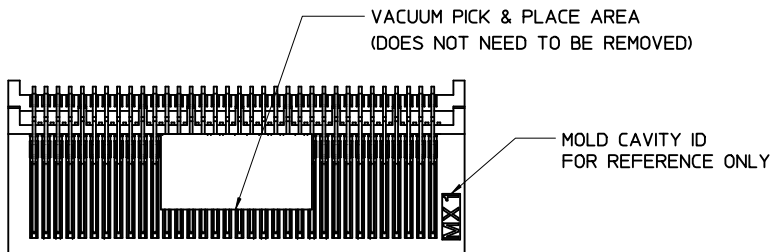
### **Material Info**

### **Reference - Drawing Numbers**

Application Specification	AS-75586-001
Packaging Specification	PK-75586-002, PK-75586-101
Product Specification	PS-75586-001
Sales Drawing	SD-75586-001

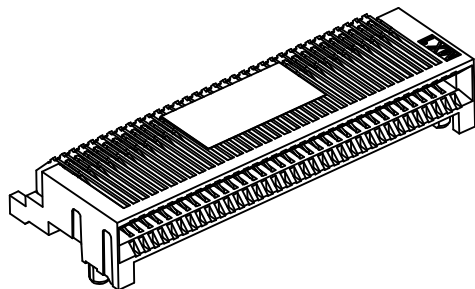
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SECTION A-A

68 CIRCUIT ASSEMBLY SHOWN



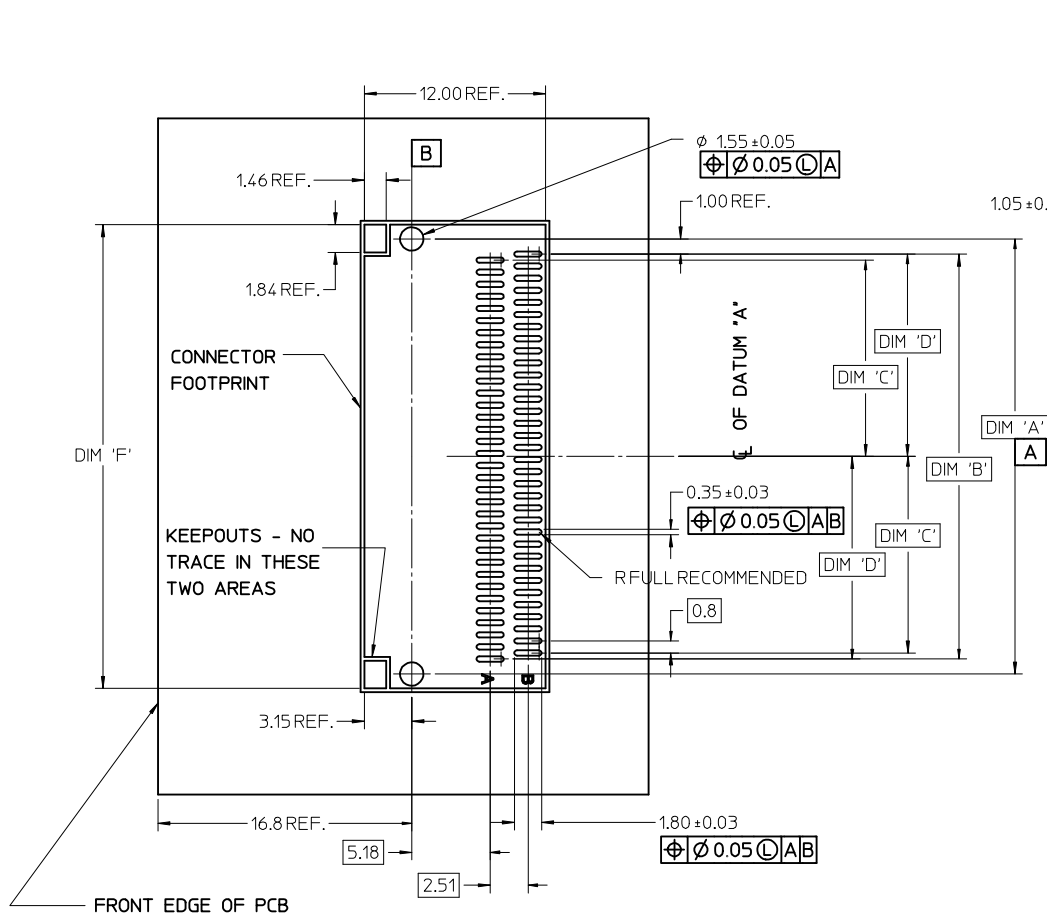
CIRCUIT SIZE	ITEM NUMBER	PLATING OPTION	DIM 'A'	DIM 'B'	DIM 'C'
26	75586-0004	OPTION 1	13.40	11.80	12.00
26	75586-0009	OPTION 2	13.40	11.80	12.00
36	75586-0003	OPTION 1	17.40	15.80	16.00
36	75586-0008	OPTION 2	17.40	15.80	16.00
38	75586-0010	OPTION 1	18.20	16.60	16.80
38	75586-0011	OPTION 2	18.20	16.60	16.80
50	75586-0001	OPTION 1	23.00	21.40	21.60
50	75586-0006	OPTION 2	23.00	21.40	21.60
68	75586-0002	OPTION 1	30.20	28.60	28.80
68	75586-0007	OPTION 2	30.20	28.60	28.80

NOTES

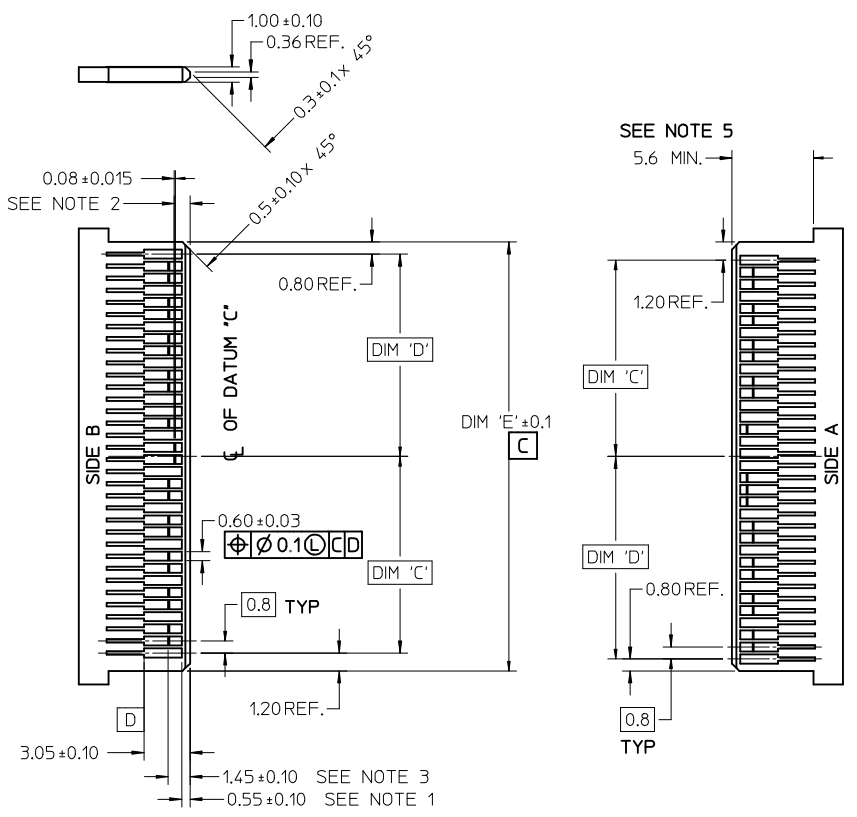
- MATERIAL:  
HOUSING - HIGH TEMPERATURE THERMOPLASTIC GLASS FILLED, UL 94V-0, BLACK  
TERMINALS - COPPER ALLOY
- PLATING:  
OPTION 1  
CONTACT AREA - 0.38 μm MIN GOLD OVER 2.54 μm MIN NICKEL  
SOLDER FOOT AREA - 2.54 - 5.09 μm TIN OVER 2.54 μm MIN NICKEL.  
OPTION 2  
CONTACT AREA - 0.76 μm MIN GOLD OVER 2.54 μm NICKEL  
SOLDER AREA - 2.54 - 5.09 μm TIN OVER 2.54 μm MIN NICKEL.
- TERMINAL SOLDER FEET TO BE COPLANAR WITHIN 0.10/004 MEASURED FROM FRONT HOUSING STAND OFF (DATUM E)
- DATE CODE: 4 DIGIT (3 DIGIT DATE, 1 DIGIT YEAR)
- CIRCUIT IDENTIFIER: SEE APPROPRIATE INDUSTRY SPECIFICATION FOR LOCATION OF PIN 1
- TO BE USED WITH EXTERNAL CABLES (74546 & 74547 SERIES) AND GUIDE FRAMES (74540 & 74548 SERIES)
- TESTER/ANALYZER CABLES AVAILABLE (74557 & 74558 SERIES)
- PACKAGED PER PACKAGING SPECIFICATION: PK-75586-002
- CONFORMS TO PRODUCT SPECIFICATION: PS-75586-001
- THIS PART CONFORMS TO CLASS C REQUIREMENTS OF COSMETIC SPECIFICATION PS-45499-002.

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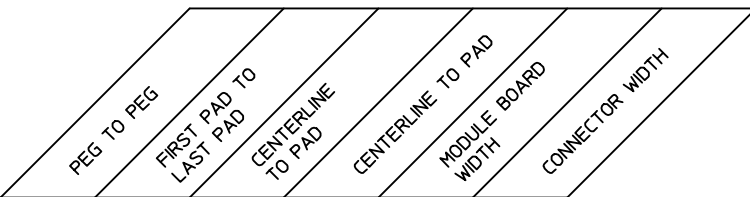
UPDATE TOLERANCES		QUALITY SYMBOLS	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE		SCALE	DESIGN UNITS	THIRD ANGLE PROJECTION	
EC NO:	DATE		mm	INCH	MM ONLY		4:1	METRIC		
UCP2010-0536	2009/08/27	▽=0			DRAWN BY	DATE			I-PASS R/A CONNECTOR EXTERNAL ASSEMBLY .8 MM PITCH I/O	
IDRWINKLANG	2009/09/29	▽=0			KREGNIER	07/28/04				
CHKD:	2009/09/29				CHECKED BY	DATE			MOLEX INCORPORATED	
IAPPR:MBANK IS	2009/09/30				JLONG	07/29/04				
REV	DESCRIPTION				APPROVED BY	DATE			SD-75586-001	
					RNELSON	07/30/04				
					ANGULAR ±1/2°				SHEET NO. 1 OF 3	
					DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS					
					SEE CHART				THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION	
					SIZE C					



68 CIRCUIT SHOWN



- 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 CARD TOUNGE.
  - SEE 74540 OR 74548 SERIES FOR GUIDE FRAME FOOT PRINT AND KEEP OUT AREA.



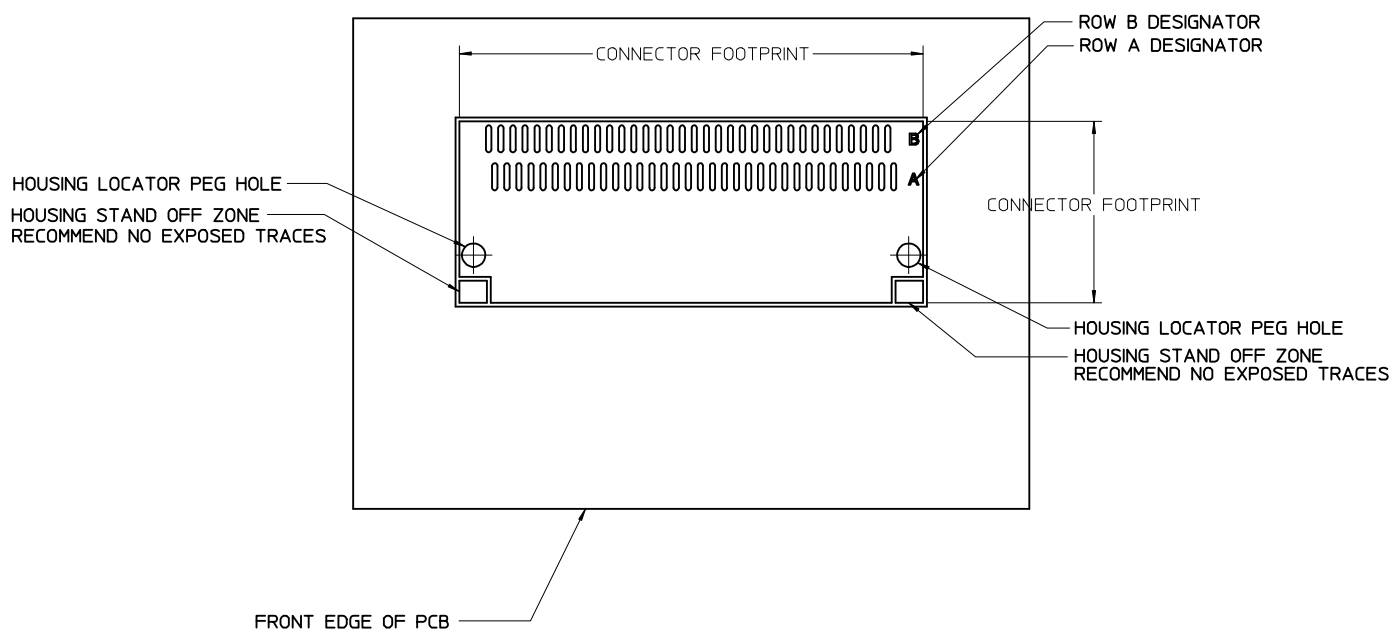
CIRCUIT SIZE	TERM/SIDE 'N'	DIM 'A'	DIM 'B'	DIM 'C'	DIM 'D'	DIM 'E'	DIM 'F'
26	13	12.00	10.00	4.60	5.00	11.60	13.90
36	18	16.00	14.00	6.60	7.00	15.60	17.90
38	19	16.80	14.80	7.00	7.40	16.40	18.70
50	25	21.60	19.60	9.40	9.80	21.20	23.50
68	34	28.80	26.80	13.00	13.40	28.40	30.70

SEE SHEET 1 EC NO: UCP2010-0536 DRINKLANG 2009/08/27 CHKD: 2009/09/29 APPR: MBANAKIS 2009/09/30	QUALITY SYMBOLS 
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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
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DIMENSION STYLE <b>MM ONLY</b> DRAWN BY DATE KREGNIER 07/28/04 CHECKED BY DATE JLONG 07/29/04 APPROVED BY DATE RNELSON 07/30/04 MATERIAL NO. <b>SEE SHEET 1</b> SIZE C
--

SCALE <b>4:1</b> DESIGN UNITS <b>METRIC</b> THIRD ANGLE PROJECTION <b>I-PASS R/A CONNECTOR EXTERNAL ASSEMBLY .8 MM PITCH I/O</b> <b>MOLEX INCORPORATED</b> DOCUMENT NO. <b>SD-75586-001</b> SHEET NO. <b>2 OF 3</b>
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SEE SHEET 1 EC NO: UCP2010-0536 DRW: DRWINKLANG 2009/08/27 CHKD: 2009/09/29 APPR: MBANAKIS 2009/09/30	QUALITY SYMBOLS ▽=0 ▽=0	GENERAL TOLERANCES (UNLESS SPECIFIED) <table border="1"> <thead> <tr> <th></th> <th>mm</th> <th>INCH</th> </tr> </thead> <tbody> <tr> <td>4 PLACES</td> <td>± .13</td> <td>± .005</td> </tr> <tr> <td>3 PLACES</td> <td>± .13</td> <td>± .005</td> </tr> <tr> <td>2 PLACES</td> <td>± 0.13</td> <td>± .005</td> </tr> <tr> <td>1 PLACE</td> <td>± 0.25</td> <td>± .010</td> </tr> </tbody> </table>		mm	INCH	4 PLACES	± .13	± .005	3 PLACES	± .13	± .005	2 PLACES	± 0.13	± .005	1 PLACE	± 0.25	± .010	DIMENSION STYLE <b>MM ONLY</b>	SCALE <b>4:1</b>	DESIGN UNITS <b>METRIC</b>	THIRD ANGLE PROJECTION
		mm	INCH																		
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	3 PLACES	± .13	± .005																		
2 PLACES	± 0.13	± .005																			
1 PLACE	± 0.25	± .010																			
DRAWN BY KREGNIER	DATE 07/28/04	TITLE <b>I-PASS R/A CONNECTOR EXTERNAL ASSEMBLY .8 MM PITCH I/O</b>																			
CHECKED BY JLONG	DATE 07/29/04	MOLEX INCORPORATED																			
APPROVED BY RNELSON	DATE 07/30/04	MATERIAL NO. <b>SEE CHART</b>	DOCUMENT NO. <b>SD-75586-001</b>	SHEET NO. <b>3 OF 3</b>																	

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

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