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Part Number: [0755177777](#)
Status: **Active**
Overview: [gbx_backplane_connector_system](#)
Description: 1.85mm by 1.85mm (.073 by .073") Pitch 5-Pair GbX® Backplane Connector System, Power Module, 10 Circuits, 1.27µm (50µ") Gold (Au)

Documents:

[Packaging Specification \(PDF\)](#)
[Drawing \(PDF\)](#)

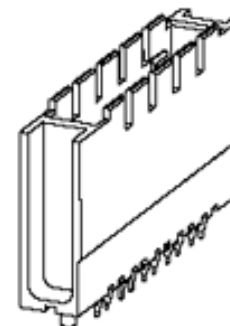
[Product Specification PS-75221-999 \(PDF\)](#)
[RoHS Certificate of Compliance \(PDF\)](#)

General

| | |
|-------------------------------|---|
| Product Family | Backplane Connectors |
| Series | 75517 |
| Application | Backplane |
| Application Tooling Documents | Tooling Manual |
| Comments | Blade Length A 7.50mm, B 7.50mm, C 7.50mm, D 7.50mm, E 7.50mm |
| Component Type | Power Header |
| Overview | gbx_backplane_connector_system |
| Product Name | GbX® |
| Style | N/A |

Physical

| | |
|--------------------------------|--------------------------------|
| Circuits (Loaded) | 10 |
| Circuits (maximum) | 10 |
| Circuits Detail | Rows A, B, C, D & E |
| Color - Resin | Gray (Dark) |
| Durability (mating cycles max) | 200 |
| First Mate / Last Break | No |
| Guide to Mating Part | No |
| Keying to Mating Part | None |
| Material - Metal | High Performance Alloy (HPA) |
| Material - Plating Mating | Gold |
| Material - Plating Termination | Tin-Lead |
| Material - Resin | High Temperature Thermoplastic |
| Number of Columns | N/A |
| Number of Pairs | 5 |
| Number of Rows | 5 |
| Orientation | Vertical |
| PC Tail Length (in) | 0.094 In |
| PC Tail Length (mm) | 2.40 mm |
| PCB Locator | Yes |
| PCB Retention | Yes |
| PCB Thickness Recommended (in) | 0.063 In |
| PCB Thickness Recommended (mm) | 1.60 mm |
| Packaging Type | Tube |
| Pitch - Mating Interface (in) | 0.102 In |
| Pitch - Mating Interface (mm) | 2.60 mm |
| Pitch - Term. Interface (in) | 0.102 In |
| Pitch - Term. Interface (mm) | 2.60 mm |
| Plating min: Mating (µin) | 50 |
| Plating min: Mating (µm) | 1.25 |
| Plating min: Termination (µin) | 30 |
| Plating min: Termination (µm) | 0.75 |
| Polarized to PCB | Yes |



Series

image - Reference only

EU RoHS

RoHS Compliant by Exemption

REACH SVHC

Contains SVHC: No

Halogen-Free

Status

Halogen-Free

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.

China RoHS



Pb

Search Parts in this Series

[75517Series](#)

Mates With

[75292 GbX® Daughtercard](#)

Application Tooling | FAQ

Tooling specifications and manuals are found by selecting the products below. Crimp Height Specifications are then contained in the Application Tooling Specification document.

Global

| Description | Product # |
|---|----------------------------|
| Insertion Module, GbX® 5 pair 1 - Up Power Module | 0622022007 |

| | |
|--------------------------------|------------------------------|
| Stackable | No |
| Surface Mount Compatible (SMC) | Yes |
| Temperature Range - Operating | 105°C |
| Termination Interface: Style | Through Hole - Compliant Pin |

Electrical

| | |
|-------------------------------|------------------|
| Current - Maximum per Contact | 6A |
| Data Rate | 8.0 Gbps |
| Real Signals (per 25mm) | 48 |
| Shielded | No |
| Voltage - Maximum | 120V AC (RMS)/DC |

Material Info

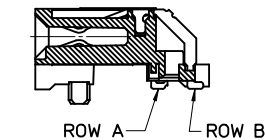
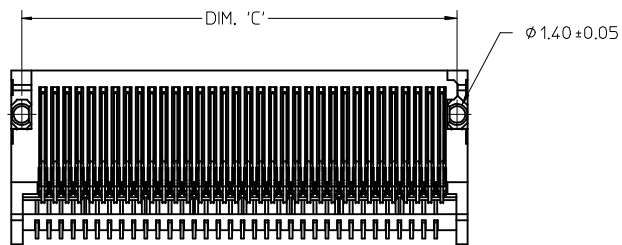
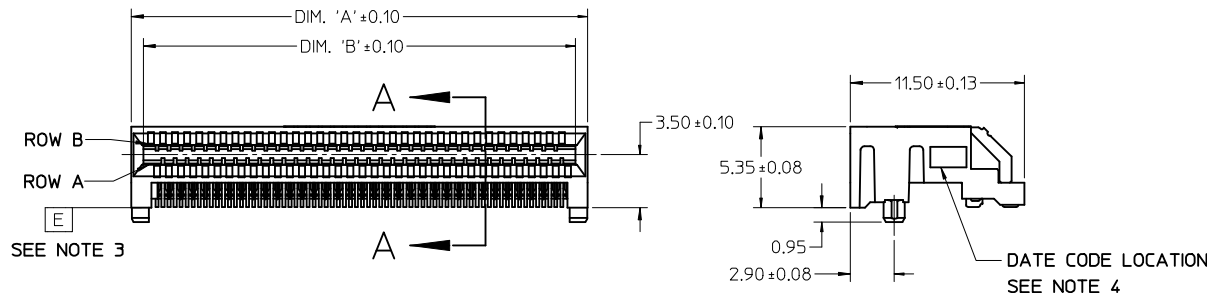
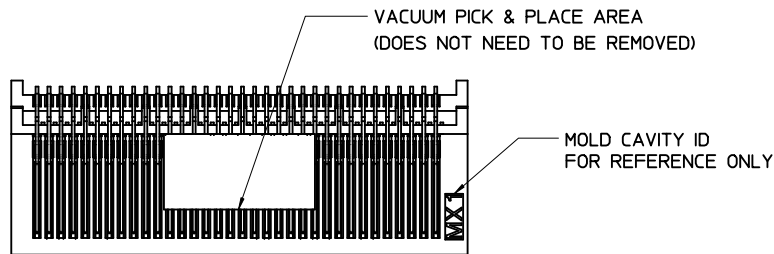
Reference - Drawing Numbers

| | |
|-----------------------|--------------|
| Product Specification | PS-75221-999 |
| Sales Drawing | SD-75510-001 |

GbX is a registered trademark of Amphenol Corporation.

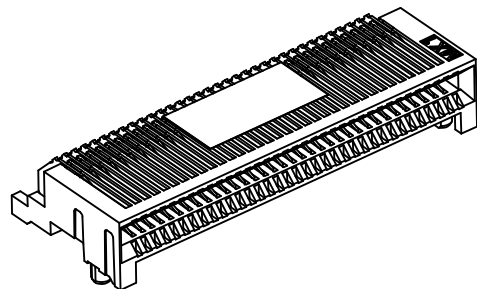
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SECTION A-A

68 CIRCUIT ASSEMBLY SHOWN



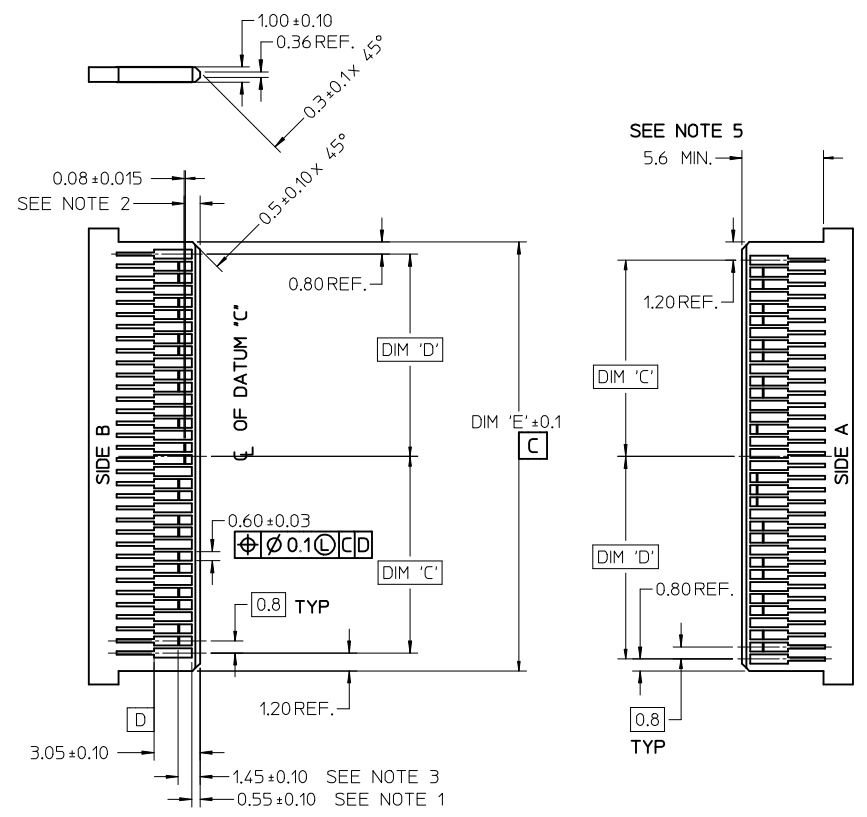
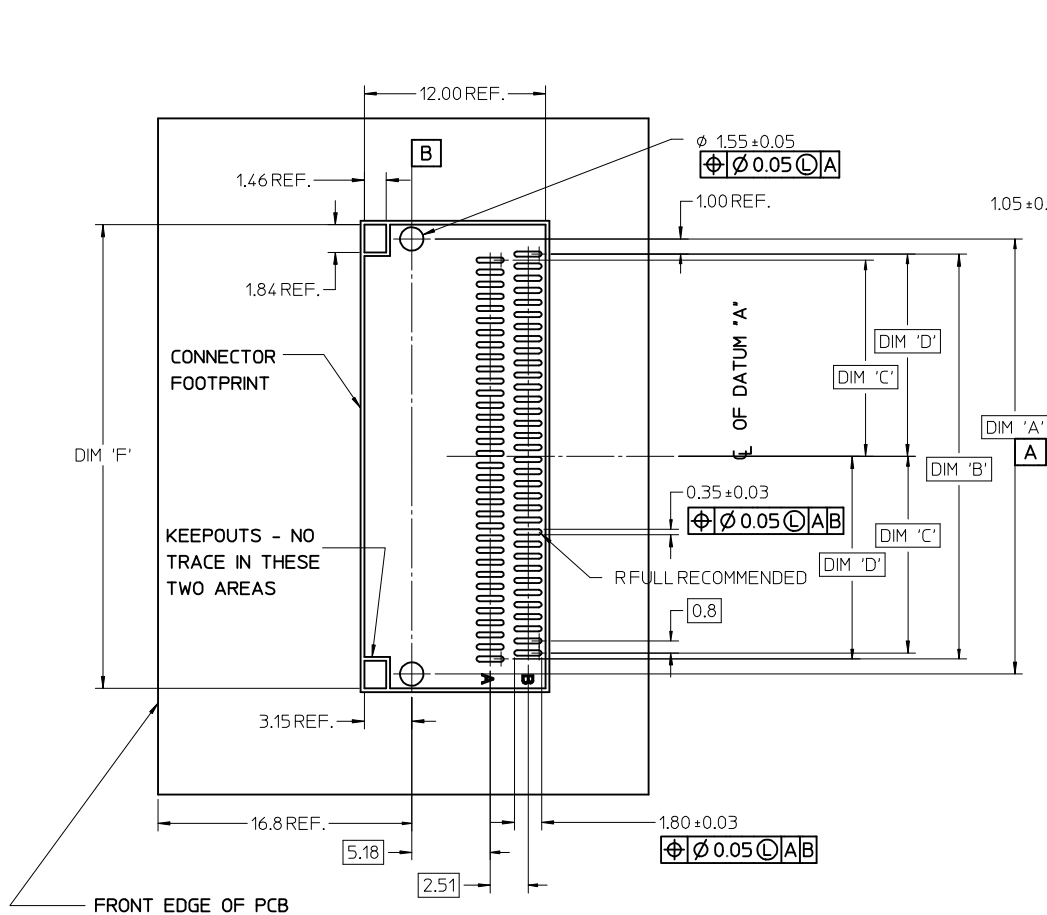
| CIRCUIT SIZE | ITEM NUMBER | PLATING OPTION | DIM 'A' | DIM 'B' | DIM 'C' |
|--------------|-------------|----------------|---------|---------|---------|
| 26 | 75586-0004 | OPTION 1 | 13.40 | 11.80 | 12.00 |
| 26 | 75586-0009 | OPTION 2 | 13.40 | 11.80 | 12.00 |
| 36 | 75586-0003 | OPTION 1 | 17.40 | 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.

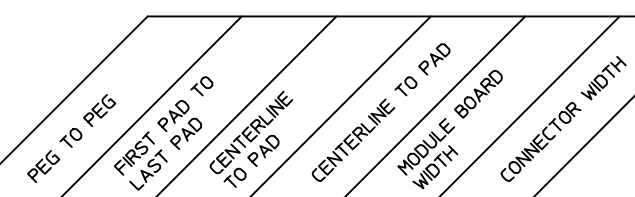
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| | | | | | | | | | |
|---|--------------------------------------|---------------------------------------|--|--------------------------------------|--|------------------------------|------------------------|---|--|
| UPDATE TOLERANCES EC NO: UCP2010-0536 IDRWINKLANG 2009/08/27 CHKD: 2009/09/29 APPR: MBANK LIS 2009/09/30 REV: | QUALITY SYMBOLS ▽=0 ▽=0 | GENERAL TOLERANCES (UNLESS SPECIFIED) | | DIMENSION STYLE MM ONLY | | SCALE 4:1 | DESIGN UNITS METRIC | THIRD ANGLE PROJECTION | |
| | | | | DRAWN BY DATE KREGNIER 07/28/04 | | TITLE | | I-PASS R/A CONNECTOR EXTERNAL ASSEMBLY .8 MM PITCH I/O | |
| | | | | CHECKED BY DATE JLONG 07/29/04 | | MATERIAL NO. SD-75586-001 | | | |
| | | | | APPROVED BY DATE RNELSON 07/30/04 | | SIZE C | | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION | |



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

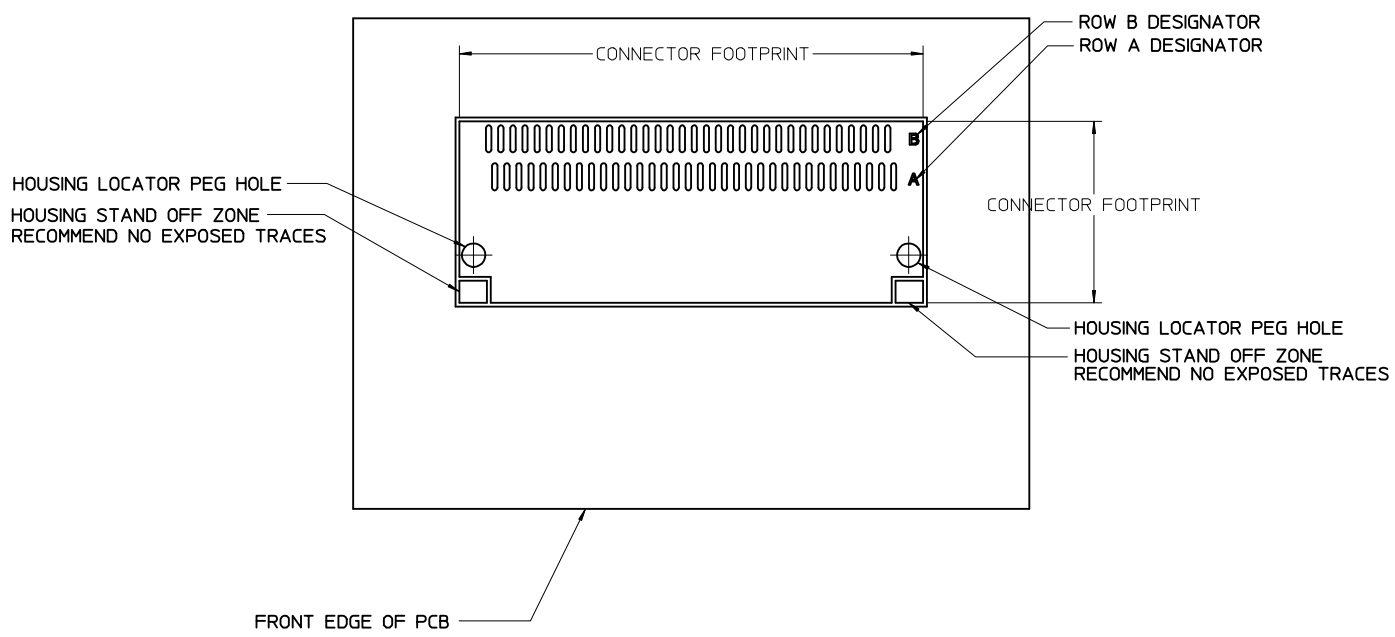
68 CIRCUIT SHOWN



| 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 |

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| | | | | | | | | |
|--|---------------------|---|--|--|-------------------------------------|----------------------------|-------------------------------|------------------------|
| SEE SHEET 1 EC NO: UCP2010-0536 DRINKLANG 2009/08/27 CHKD: 2009/09/29 APPR: MBANAKIS 2009/09/30 | QUALITY SYMBOLS | GENERAL TOLERANCES (UNLESS SPECIFIED) | | DIMENSION STYLE MM ONLY | | SCALE 4:1 | DESIGN UNITS METRIC | THIRD ANGLE PROJECTION |
| | | 4 PLACES ± --- ± --- 3 PLACES ± --- ± --- 2 PLACES ± 0.13 ± --- 1 PLACE ± 0.25 ± --- | mm INCH DRAWN BY DATE KREGNIER 07/28/04 CHECKED BY DATE JLONG 07/29/04 APPROVED BY DATE RNELSON 07/30/04 | TITLE I-PASS R/A CONNECTOR EXTERNAL ASSEMBLY .8 MM PITCH I/O | | MOLEX INCORPORATED | | |
| | | DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS | | MATERIAL NO. SEE SHEET 1 | DOCUMENT NO. SD-75586-001 | SHEET NO. 2 OF 3 | | |
| | | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION | | | | | | |



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| | | | | | | |
|---|-----------------|---|-----------------|---|--------------|---|
| SEE SHEET 1 EC NO: UCP2010-0536 DRW: DRWINKLANG CHKD: 2009/09/29 APPR: MBANAKIS 2009/08/27 2009/09/30 | QUALITY SYMBOLS | GENERAL TOLERANCES (UNLESS SPECIFIED) | DIMENSION STYLE | SCALE | DESIGN UNITS | THIRD ANGLE PROJECTION |
| | ▼=0 ▽=0 | mm INCH 4 PLACES ± --- ± --- 3 PLACES ± --- ± --- 2 PLACES ± 0.13 ± --- 1 PLACE ± 0.25 ± --- ANGULAR ± 1/2° | MM ONLY | 4:1 | METRIC | DRAWN BY: KREGNIER DATE: 07/28/04 CHECKED BY: JLONG DATE: 07/29/04 APPROVED BY: RNELSON DATE: 07/30/04 |
| | | DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS | SEE CHART | TITLE: I-PASS R/A CONNECTOR EXTERNAL ASSEMBLY .8 MM PITCH I/O MOLEX INCORPORATED DOCUMENT NO. SD-75586-001 | | SHEET NO. 3 OF 3 |
| | | | | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION | | |