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**Part Number:** [0752350703](#)  
**Status:** **Active**  
**Overview:** [gbx\\_backplane\\_connector\\_system](#)  
**Description:** 1.85mm by 1.85mm (.073 by .073") Pitch 4-Pair GbX® Backplane Connector System, Open Header, 56 Circuits, Gold (Au) 0.76µm (30µ"), Pin Length 3.55mm (.140")

**Documents:**

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

**Agency Certification**

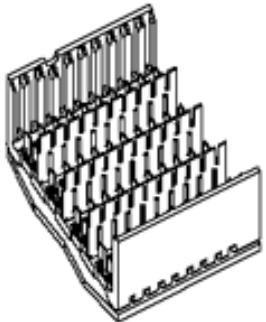
UL E29179

**General**

Product Family Backplane Connectors  
Series [75235](#)  
Application Backplane  
Application Tooling Documents <a href="http://www.molex.com/pdm\_docs/ats/TM-622022099.pdf">Tooling Manual</a>  
Comments Open Header  
Component Type PCB Header  
Overview [gbx\\_backplane\\_connector\\_system](#)  
Product Name GbX®  
Style N/A

**Physical**

Circuits (Loaded) 56  
Circuits (maximum) 56  
Color - Resin Gray (Dark)  
Durability (mating cycles max) 200  
First Mate / Last Break No  
Flammability 94V-0  
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 7  
Number of Pairs 4  
Number of Rows 8  
Orientation Vertical  
PC Tail Length (in) 0.091 In  
PC Tail Length (mm) 2.30 mm  
PCB Locator No  
PCB Retention Yes  
PCB Thickness Recommended (in) 0.063 In  
PCB Thickness Recommended (mm) 1.60 mm  
Packaging Type Tray  
Pitch - Mating Interface (in) 0.073 In  
Pitch - Mating Interface (mm) 1.85 mm  
Pitch - Term. Interface (in) 0.073 In  
Pitch - Term. Interface (mm) 1.85 mm  
Plating min: Mating (µin) 30  
Plating min: Mating (µm) 0.76  
Plating min: Termination (µin) 30



Series

image - Reference only

**EU RoHS**

**RoHS Compliant by Exemption**

**REACH SVHC**

Not Reviewed

**Halogen-Free**

**Status**

**Not Reviewed**

**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**

[75235Series](#)

**Mates With**

[75220 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 Tool for [0622022120](#)  
GbX® 4 Pair by 7  
Column

|                                |                              |
|--------------------------------|------------------------------|
| Plating min: Termination (μm)  | 0.76                         |
| Polarized to PCB               | No                           |
| Stackable                      | No                           |
| Surface Mount Compatible (SMC) | Yes                          |
| Temperature Range - Operating  | 105°C                        |
| Termination Interface: Style   | Through Hole - Compliant Pin |

**Electrical**

|                               |                     |
|-------------------------------|---------------------|
| Current - Maximum per Contact | 1A                  |
| Data Rate                     | 8.0 Gbps            |
| Real Signals (per 25mm)       | 108                 |
| Shield Type                   | Ground Plane Shield |
| Shielded                      | Yes                 |
| Voltage - Maximum             | 120V AC (RMS)/DC    |

**Material Info**

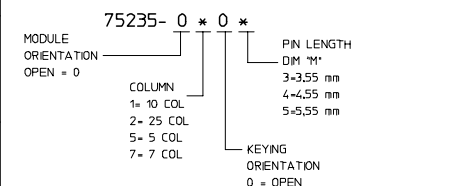
**Reference - Drawing Numbers**

|                         |              |
|-------------------------|--------------|
| Packaging Specification | PK-70873-563 |
| Product Specification   | PS-75221-999 |
| Sales Drawing           | SD-75235-010 |

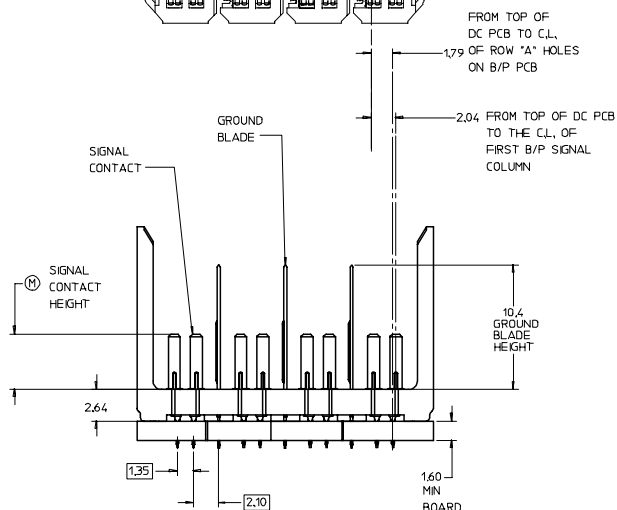
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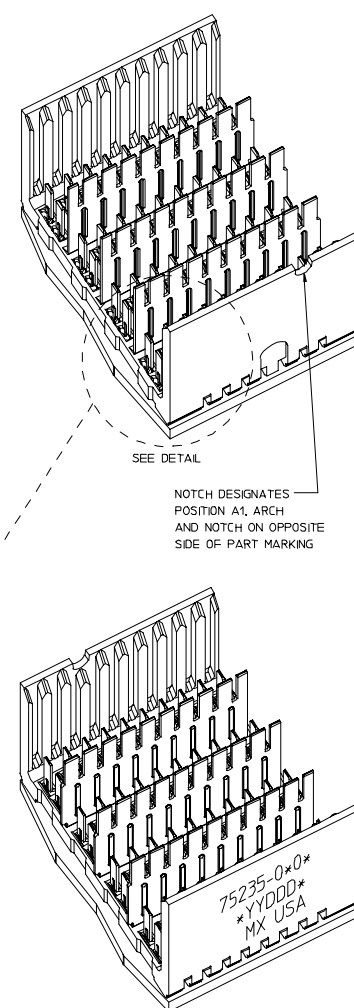
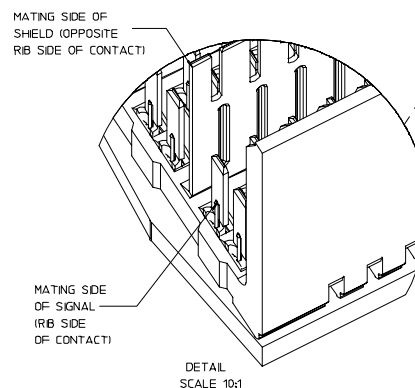
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1. MATERIAL: COLORING - LIQUID CRYSTAL POLYMER (LCP) GLASS-FILLED.  
UL 94V-0, HSB - GRAY, SIGNAL CONTACT AND GROUND BLADE - HIGH PERFORMANCE COPPER ALLOY.
2. FINISHES: SELECTIVE GOLD (Au) ON CONTACT AREA, SELECTIVE TIN/LEAD (Sn/Pb) ON PCB TAILS, NICKEL (Ni) OVERALL.
3. THIS PART CONFORMS TO MOLEX PRODUCT SPECIFICATION PS-75221-999.
4. FOR MIXED CONTACT MATING LENGTHS CONSULT MOLEX FOR AVAILABILITY. CONTACT PAIRS MUST BE THE SAME LENGTH.
5. FOR SPECIFIC PART NUMBER AND MATING INFORMATION  
PLEASE REFER TO CHART.
6. PACKAGE PER PK-70873-253.
7. EITHER MARK PART NUMBER AND DATE CODE APPROXIMATELY WHERE SHOWN OR PLACE A LABEL ON THE TUBE.
8. THESE PARTS CONFORM TO MOLEX COSMETIC SPECIFICATION  
PS-45499-002 CLASS B.



| PART NUMBER TABLE |    |       |       |                                    |
|-------------------|----|-------|-------|------------------------------------|
| ASSY PART NO.     | K  | L     | P     | TOTAL NO. OF<br>DIFFERENTIAL PAIRS |
| 75235-010*        | 9  | 16.65 | 18.35 | 40                                 |
| 75235-020*        | 24 | 44.40 | 46.10 | 100                                |
| 75235-050*        | 4  | 7.40  | 9.10  | 20                                 |
| 75235-070*        | 6  | 11.10 | 12.80 | 28                                 |



|                                                                                                                     |             |                 |                                       |        |                                                                                                                                  |                            |                                                                                       |                                                                                               |                    |   |
|---------------------------------------------------------------------------------------------------------------------|-------------|-----------------|---------------------------------------|--------|----------------------------------------------------------------------------------------------------------------------------------|----------------------------|---------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|--------------------|---|
| ADD 5-COLUMN PART<br>EC NO: UCP2008-0890<br>DRAWN: BINGHAM 2007/11/15<br>CHKD: 2007/11/16<br>APPR: LAURX 2007/11/16 | DESCRIPTION | QUALITY SYMBOLS | GENERAL TOLERANCES (UNLESS SPECIFIED) |        | SCALE<br>5:1                                                                                                                     | DESIGN UNITS<br>METRIC     |  | THIRD ANGLE<br>PROJECTION                                                                     | REVISE ON CAD ONLY |   |
|                                                                                                                     |             |                 |                                       | mm     | INCH                                                                                                                             | DIMENSION STYLE<br>MM ONLY |                                                                                       | TITLE<br>GBX 4-PAIR OPEN END<br>BACKPLANE ASSEMBLY<br>SALES DRAWING<br><br>MOLEX INCORPORATED |                    |   |
|                                                                                                                     |             |                 | 4 PLACES                              | ± .--- | ± .---                                                                                                                           | DRAWN BY                   | DATE                                                                                  |                                                                                               |                    |   |
|                                                                                                                     |             |                 | 3 PLACES                              | ± .--- | ± .---                                                                                                                           | NMARTIN                    | 2003/04/25                                                                            |                                                                                               |                    |   |
|                                                                                                                     |             |                 | 2 PLACES                              | ± 0.13 | ± .---                                                                                                                           | CHECKED BY                 | DATE                                                                                  |                                                                                               |                    |   |
|                                                                                                                     |             |                 | 1 PLACE                               | ± 0.25 | ± .---                                                                                                                           | SREED                      | 2003/04/25                                                                            |                                                                                               |                    |   |
|                                                                                                                     |             |                 | ANGULAR ± .---                        |        | APPROVED BY                                                                                                                      | DATE                       | MATERIAL NO.                                                                          | DOCUMENT NO.                                                                                  | SHEET NO.          |   |
|                                                                                                                     |             |                 | DRAFT WHERE APPLICABLE                |        | CBXLER                                                                                                                           | 2003/04/25                 | SEE CHART                                                                             | SD-75235-010                                                                                  | 1 OF 1             |   |
|                                                                                                                     |             |                 | MUST REMAIN<br>WITHIN DIMENSIONS      |        | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX<br>INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION |                            |                                                                                       |                                                                                               |                    | D |

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