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Part Number:

0758610104

Status:

Active

Overview:

gbx\_backplane\_connector\_system

Description:

1.85mm by 1.85mm (.073" by .073") Pitch 2-Pair GbX® Backplane L-Series Connector System, Open Header, 55 Circuits, Gold (Au) 0.76µm (30µ"), Pin Length 4.55mm (.179")

Documents:

Drawing (PDF)

Product Specification PS-75221-999 (PDF)

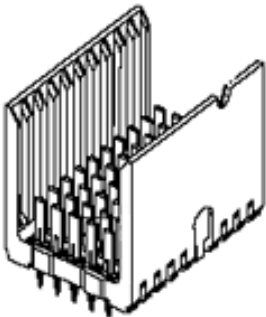
RoHS Certificate of Compliance (PDF)

General

|                               |                                                                                 |
|-------------------------------|---------------------------------------------------------------------------------|
| Product Family                | Backplane Connectors                                                            |
| Series                        | 75861                                                                           |
| 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)              | 50                             |
| Circuits (maximum)             | 50                             |
| 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              | 10                             |
| Number of Pairs                | 2                              |
| Number of Rows                 | 5                              |
| Orientation                    | Vertical                       |
| PC Tail Length (in)            | 0.087 In                       |
| PC Tail Length (mm)            | 2.20 mm                        |
| PCB Locator                    | No                             |
| PCB Retention                  | Yes                            |
| PCB Thickness Recommended (in) | 0.063 In                       |
| PCB Thickness Recommended (mm) | 1.60 mm                        |
| Packaging Type                 | Tube                           |
| Pitch - Mating Interface (in)  | 0.073 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                             |
| Plating min: Termination (µm)  | 0.76                           |
| Polarized to PCB               | No                             |
| Stackable                      | No                             |



Series  
image - Reference only

EU RoHS

RoHS Compliant by Exemption

REACH SVHC

Contains SVHC: No

Halogen-Free

Status

Halogen-Free

China RoHS



Pb

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  
75861Series

Mates With  
75676 Gbx Hybrid Daughtercard. 75671 GbX® L-Series 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 #  |
|--------------------------------------------------|------------|
| GbX® 2 Pair by 10 Wide L Series Insertion Module | 0622022450 |

|                                |                              |
|--------------------------------|------------------------------|
| 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)       | 67               |
| Shielded                      | No               |
| Voltage - Maximum             | 120V AC (RMS)/DC |

**Material Info**

**Reference - Drawing Numbers**

|                         |               |
|-------------------------|---------------|
| Packaging Specification | PK-70873-5058 |
| Product Specification   | PS-75221-999  |
| Sales Drawing           | SD-75861-010  |

GbX is a registered trademark of Amphenol Corporation.

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13 12 11 10 9 8 7 6 5 4 3 2 1

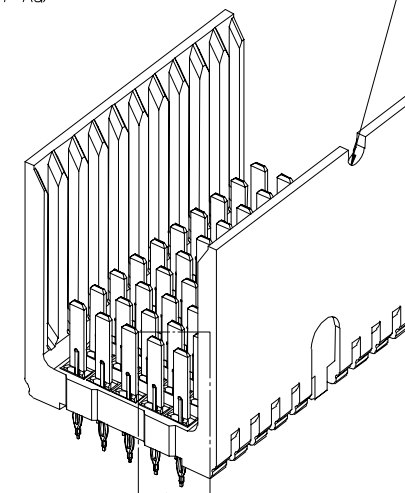
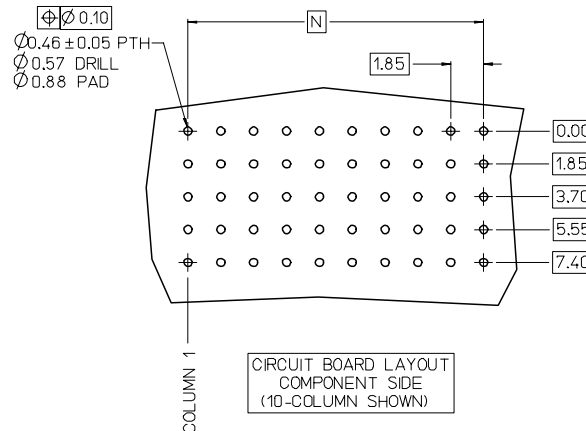
| CONFIGURATION |    |       |       |
|---------------|----|-------|-------|
| ASSEMBLY NO.  | K  | N     | (L)   |
| 75861-050*    | 4  | 7.40  | 9.10  |
| 75861-010*    | 9  | 16.65 | 18.35 |
| 75861-020*    | 24 | 44.40 | 46.10 |

75861-0\*0\*

COLUMN  
05 = 5  
01 = 10  
02 = 25

SIGNAL LENGTH  
DIMENSION "M"  
3 = 3.55mm (30 μ Aw)  
4 = 4.55mm (30 μ Aw)  
5 = 5.55mm (30 μ Aw)  
7 = 3.55mm (50 μ Aw)  
8 = 4.55mm (50 μ Aw)  
9 = 5.55mm (50 μ Aw)

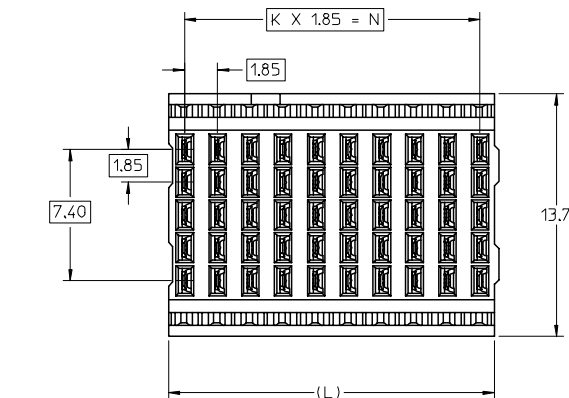
NOTCH DESIGNATES  
APPROX. POSITION OF A1.  
ARCH & NOTCH ON  
OPPOSITE SIDE OF  
PART MARKING



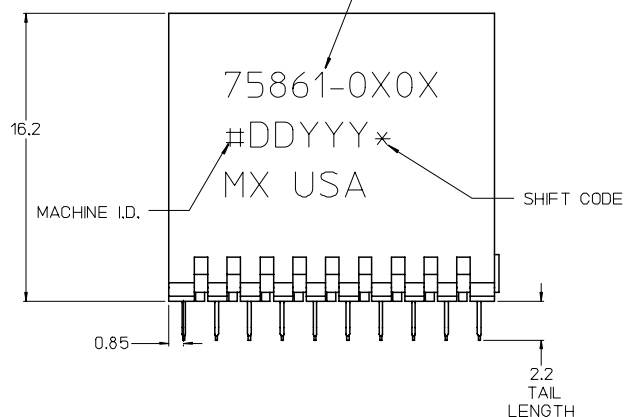
SEE DETAIL Y

MATING SIDE  
OF SIGNAL  
(RIB SIDE  
OF CONTACT)

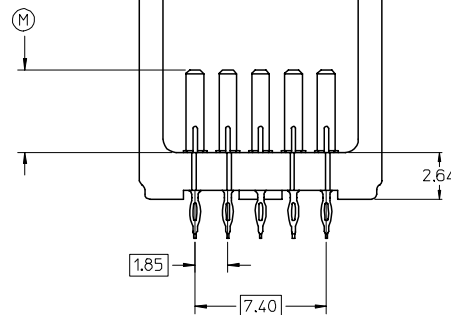
DETAIL Y  
SCALE 10:1



SEE NOTE 7



SIGNAL CONTACT  
BEAM LENGTH  
SEE TABLE



- NOTES:
1. MATERIAL: HOUSING - LIQUID CRYSTAL POLYMER (LCP), GLASS-FILLED, UL 94V-0, GRAY. SIGNAL CONTACTS - HIGH PERFORMANCE COPPER ALLOY.
  2. FINISHES: SELECTIVE GOLD (Au) ON CONTACT AREA, SELECTIVE TIN/LEAD (Sn/Pb) ON TAIL AREA, NICKEL (Ni) OVERALL.
  3. 10-COLUMN ASSEMBLY SHOWN AS REFERENCE. SEE TABLE AND CHART FOR OTHER OPTIONS.
  4. PARTS PACKAGED PER PK-70873-5058.
  5. THIS PART CONFORMS TO MOLEX PRODUCT SPECIFICATION PS-75221-999.
  6. FOR MIXED CONTACT MATING LENGTHS CONSULT MOLEX.
  7. EITHER MARK PART NUMBER AND DATE CODE APPROXIMATELY WHERE SHOWN OR PLACE A LABEL ON THE TUBE.
  8. MINIMUM CIRCUIT BOARD THICKNESS: 1.6
  9. THESE PARTS CONFORM TO MOLEX COSMETIC SPECIFICATION PS-45499-002 CLASS B.

|                                                                                                           |             |                                       |                                                            |  |        |                            |                       |              |                        |                           |                                                                                                              |  |
|-----------------------------------------------------------------------------------------------------------|-------------|---------------------------------------|------------------------------------------------------------|--|--------|----------------------------|-----------------------|--------------|------------------------|---------------------------|--------------------------------------------------------------------------------------------------------------|--|
| REVISED (MINOR)<br>EC NO: UCP2008-0890<br>DRAWN: JB INGHAM<br>CHKD: 2007/11/15<br>APPR: LAJFXR 2007/11/16 | DESCRIPTION | QUALITY SYMBOLS<br><br>▽=0<br><br>▽=0 | GENERAL TOLERANCES (UNLESS SPECIFIED)                      |  |        | DIMENSION STYLE<br>MM ONLY |                       | SCALE<br>5:1 | DESIGN UNITS<br>METRIC | THIRD ANGLE<br>PROJECTION |                                                                                                              |  |
|                                                                                                           |             |                                       | mm                                                         |  | INCH   |                            | DRAWN BY<br>JB INGHAM |              | DATE<br>2006/02/03     |                           | TITLE<br>GBX 2-PAIR L-SERIES<br>OPEN END BACKPLANE<br>SALES ASSEMBLY DRAWING<br><br>MOLEX MOLEX INCORPORATED |  |
|                                                                                                           |             |                                       | 4 PLACES ± ---                                             |  | ± ---  |                            | CHECKED BY<br>KMULVEY |              | DATE<br>2006/02/03     |                           |                                                                                                              |  |
|                                                                                                           |             |                                       | 3 PLACES ± ---                                             |  | ± ---  |                            | APPROVED BY<br>SREED  |              | DATE<br>2006/02/03     |                           |                                                                                                              |  |
|                                                                                                           |             |                                       | 2 PLACES ± 0.13                                            |  | ± ---  |                            | MATERIAL NO.          |              | DOCUMENT NO.           |                           |                                                                                                              |  |
|                                                                                                           |             |                                       | 1 PLACE ± 0.25                                             |  | ± ---  |                            | SEE CHART             |              | SD-75861-010           |                           |                                                                                                              |  |
|                                                                                                           |             |                                       | ANGULAR ± ---°                                             |  | ± ---° |                            | SIZE                  |              | SHEET NO.              |                           |                                                                                                              |  |
|                                                                                                           |             |                                       | DRAFT WHERE APPLICABLE<br>MUST REMAIN<br>WITHIN DIMENSIONS |  |        |                            |                       |              | 1 OF 1                 |                           |                                                                                                              |  |
|                                                                                                           |             |                                       |                                                            |  |        |                            |                       |              |                        |                           |                                                                                                              |  |
|                                                                                                           |             |                                       |                                                            |  |        |                            |                       |              |                        |                           |                                                                                                              |  |
|                                                                                                           |             |                                       |                                                            |  |        |                            |                       |              |                        |                           |                                                                                                              |  |

12 11 10 9 8 7 6 5 4 3 2 1

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