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Part Number:

0758614204

Status:

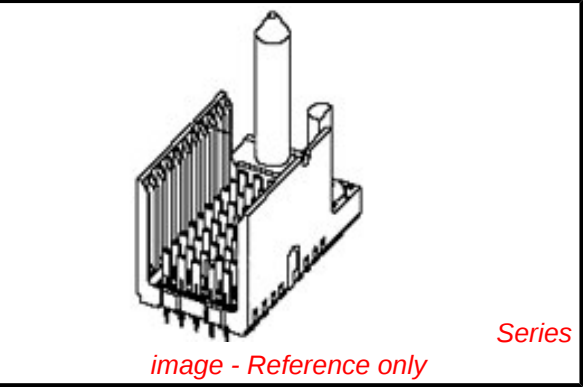
Active

Overview:

gbx\_backplane\_connector\_system

Description:

1.85mm by 1.85mm (.073" by .073") Pitch 2-Pair GbX® Backplane L-Series Connector System, Right Guide Header, 125 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                      | Left Guide Header, No Keying Postion                                            |
| Component Type                | PCB Header                                                                      |
| Overview                      | gbx_backplane_connector_system                                                  |
| Product Name                  | GbX®                                                                            |
| Style                         | N/A                                                                             |

|                                |                                               |
|--------------------------------|-----------------------------------------------|
| Physical                       |                                               |
| Circuits (Loaded)              | 125                                           |
| Circuits (maximum)             | 125                                           |
| Color - Resin                  | Gray (Dark)                                   |
| Durability (mating cycles max) | 200                                           |
| First Mate / Last Break        | No                                            |
| Guide to Mating Part           | Yes                                           |
| Keying to Mating Part          | None                                          |
| Material - Metal               | High Performance Alloy (HPA), Stainless Steel |
| Material - Plating Mating      | Gold                                          |
| Material - Plating Termination | Tin-Lead                                      |
| Material - Resin               | High Temperature Thermoplastic                |
| Number of Columns              | 25                                            |
| 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                                            |

EU RoHS

RoHS Compliant by Exemption

REACH SVHC

Not Reviewed

Halogen-Free

Status

Not Reviewed

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 25 Wide L Series Insertion Module | 0622022470 |

|                                |                              |
|--------------------------------|------------------------------|
| 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-75861-410  |

GbX is a registered trademark of Amphenol Corporation.

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20 19 18 17 16 15 14 13 12 11 10 9 8 7 6 5 4 3 2 1

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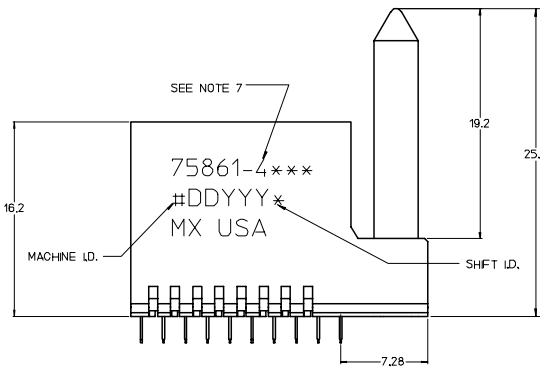
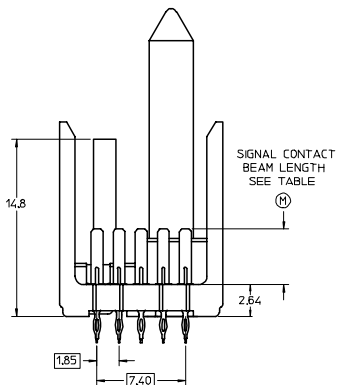
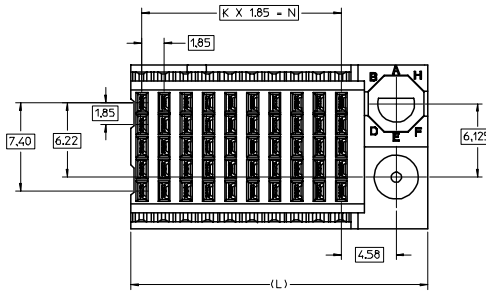
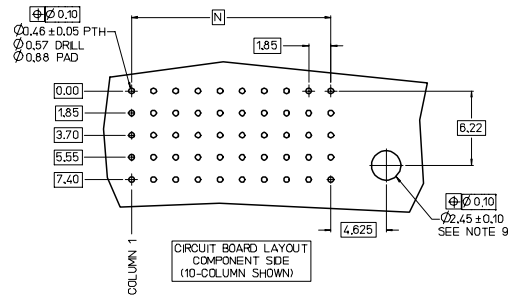
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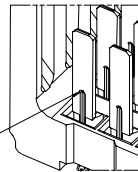
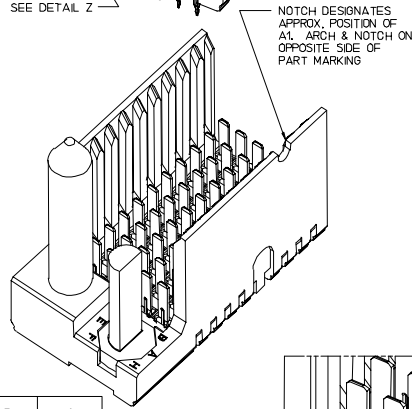
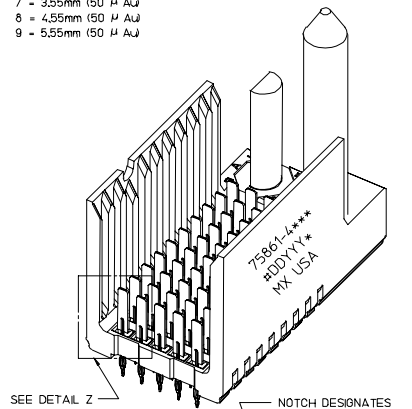
75861-4\*\*\*

COLUMN  
01 = 10  
02 = 25  
05 = 5

KEYING  
POSITION  
0 = NONE  
1 = A  
2 = B  
ETC.

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

| CONFIGURATION |    |       |       |
|---------------|----|-------|-------|
| ASSEMBLY NO.  | K  | N     | (L)   |
| 75861-45**    | 4  | 7.40  | 6.53  |
| 75861-41**    | 9  | 16.65 | 24.78 |
| 75861-42**    | 24 | 44.40 | 52.53 |



- 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 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. OPTIONAL HOLE LOCATION FOR GROUNDED GUIDE PIN OR FOR ADDITIONAL GUIDE PIN SUPPORT. FOR GROUNDED GUIDE, HOLE TO BE PLATED, DRILL SIZE Ø2.58, PAD SIZE Ø5.50.
  10. THESE PARTS CONFORM TO MOLEX COSMETIC SPECIFICATION PS-45499-002 CLASS B.

| P/N<br>75861-4 )          | -xx0* | -xx1* | -xx2* | -xx3* | -xx4* | -xx5* | -xx6* | -xx7* | -xx8* |
|---------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| KEYING PIN<br>ORIENTATION | 0     | A     | B     | C     | D     | E     | F     | G     | H     |

|                                                                                         |                                  |                                                                                                                                                                       |                                                                                                                                                            |              |                        |                           |                                                                                                           |                              |                     |
|-----------------------------------------------------------------------------------------|----------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|------------------------|---------------------------|-----------------------------------------------------------------------------------------------------------|------------------------------|---------------------|
| REVISED<br>EC NO. UCP2007-2780<br>DRAWN: JB INGHAM<br>CHKD: CHKCD<br>APPR: SREED<br>REV | QUALITY<br>SYMBOLS<br>▽=0<br>▽=0 | GENERAL TOLERANCES<br>(UNLESS SPECIFIED)<br>mm INCH<br>4 PLACES ± --- ± ---<br>3 PLACES ± --- ± ---<br>2 PLACES ± --- ± ---<br>1 PLACE ± --- ± ---<br>ANGULAR ± --- ° | DIMENSION STYLE<br>MM ONLY<br>DRAWN BY: JB INGHAM<br>CHECKED BY: KMULVEY<br>APPROVED BY: SREED<br>DATE: 2006/02/06<br>DATE: 2006/02/06<br>DATE: 2006/02/06 | SCALE<br>5:1 | DESIGN UNITS<br>METRIC | THIRD ANGLE<br>PROJECTION | TITLE<br>GBX 2-PAIR L-SERIES<br>RIGHT END BACKPLANE<br>SALES ASSEMBLY DRAWING<br>MOLEX MOLEX INCORPORATED | DOCUMENT NO.<br>SD-75861-410 | SHEET NO.<br>1 OF 1 |
|                                                                                         |                                  |                                                                                                                                                                       |                                                                                                                                                            |              |                        |                           |                                                                                                           |                              |                     |
|                                                                                         |                                  |                                                                                                                                                                       |                                                                                                                                                            |              |                        |                           |                                                                                                           |                              |                     |
|                                                                                         |                                  |                                                                                                                                                                       |                                                                                                                                                            |              |                        |                           |                                                                                                           |                              |                     |

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