

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

Part Number:

0752374154

Status:

Active

Overview:

gbx\_backplane\_connector\_system

Description:

1.85mm by 1.85mm (.073 by .073") Pitch 5-Pair GbX® Backplane Connector System, Right Guide Header, 100 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)

Agency Certification

UL

E29179

General

Product Family

Backplane Connectors

Series

75237

Application

Backplane

Application Tooling Documents

<a href="http://www.molex.com/pdm\_docs/ats/TM-622022099.pdf">Tooling Manual</a>

Comments

Right Guide Header, Keying Position E

Component Type

PCB Header

Overview

gbx\_backplane\_connector\_system

Product Name

GbX®

Style

N/A

Physical

Circuits (Loaded)

100

Circuits (maximum)

100

Color - Resin

Gray (Dark)

Durability (mating cycles max)

200

First Mate / Last Break

No

Flammability

94V-0

Guide to Mating Part

Yes

Keying to Mating Part

Yes

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

10

Number of Pairs

5

Number of Rows

10

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)

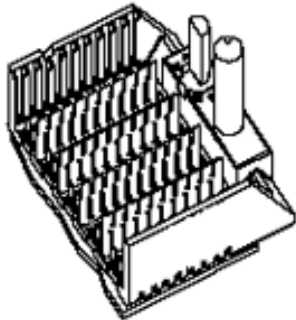
30

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



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

75237Series

Mates With

75360 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, GbX®                                                                                                                                                            | 0622022030 |
| 5 pair by 10 wide                                                                                                                                                               |            |
| Insertion Tool, GbX®                                                                                                                                                            | 0622022040 |
| 5 pair by 20 wide                                                                                                                                                               |            |
| GbX® Single Pin                                                                                                                                                                 | 0622022090 |
| Repair Tool                                                                                                                                                                     |            |
| GbX® Shield                                                                                                                                                                     | 0622022100 |
| Removal Tool                                                                                                                                                                    |            |

|                                |                              |
|--------------------------------|------------------------------|
| 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)       | 135                 |
| Shield Type                   | Ground Plane Shield |
| Shielded                      | Yes                 |
| Voltage - Maximum             | 120V AC (RMS)/DC    |

**Material Info**

**Reference - Drawing Numbers**

|                       |              |
|-----------------------|--------------|
| Product Specification | PS-75221-999 |
| Sales Drawing         | SD-75237-410 |

GbX is a registered trademark of Amphenol Corporation.

This document was generated on 05/13/2010  
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20 19 18 17 16 15 14 13 12 11 75237 9 8 7 6 5 4 3 2 1

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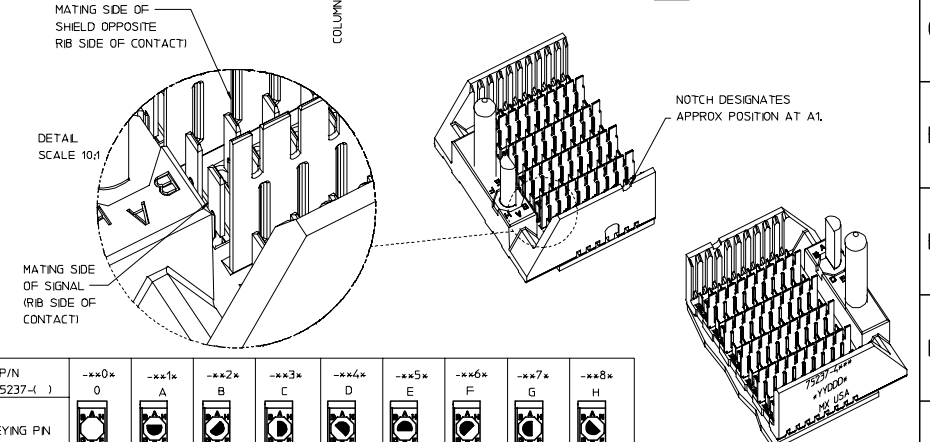
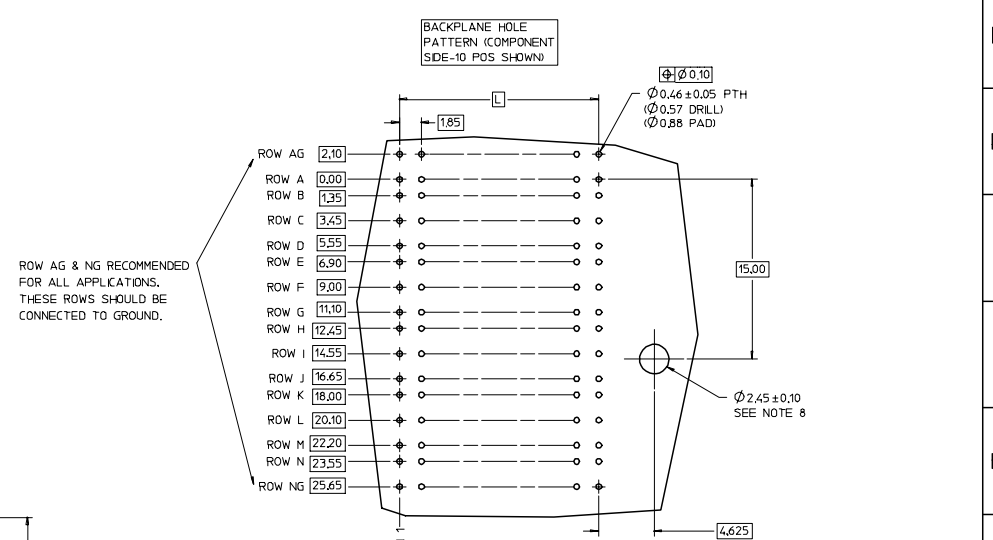


- NOTES:
1. MATERIAL: HOUSING - LIQUID CRYSTAL POLYMER (LCP) GLASS-FILLED, UL 94V-0, COLOR - GRAY. SIGNAL CONTACT AND GROUND BLADE - HIGH PERFORMANCE COPPER ALLOY.
  2. FINISHES: SELECTIVE GOLD (Au) ON CONTACT AREA, SELECTIVE TIN/LEAD (Sn/Pb) ON PCB TAILS, NICKEL (Ni) OVERALL.
  3. THIS PART CONFORMS 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-70873-505.
  7. EITHER MARK PART NUMBER AND DATE CODE APPROXIMATELY WHERE SHOWN, ON EITHER SIDE OF THE PART, OR PLACE A LABEL ON THE TUBE.
  8. OPTIONAL HOLE LOCATION FOR GROUNDED GUIDE PIN OR ADDITIONAL GUIDE PIN SUPPORT, FOR GROUNDED GUIDE PIN, HOLE TO BE PLATED, DRILL SIZE  $\varnothing 2.58$ , PAD SIZE  $\varnothing 5.50$
  9. THESE PARTS CONFORM TO MOLEX COSMETIC SPECIFICATION PS-45499-002 CLASS B.



| PART NUMBER TABLE |    |       |       |                                 |
|-------------------|----|-------|-------|---------------------------------|
| ASSY PART NO.     | K  | L     | P     | TOTAL NO. OF DIFFERENTIAL PAIRS |
| 75237-41**        | 9  | 16.65 | 24.78 | 50                              |
| 75237-42**        | 24 | 44.40 | 52.53 | 125                             |

75237 9 8 7 6 5 4 3 2 1



| P/N                    | -xx0* | -xx1* | -xx2* | -xx3* | -xx4* | -xx5* | -xx6* | -xx7* | -xx8* |
|------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 75237-( )              | 0     | A     | B     | C     | D     | E     | F     | G     | H     |
| KEYING PIN ORIENTATION |       |       |       |       |       |       |       |       |       |

|                                                                                                                 |                     |                                                                                                                               |                                       |                     |                            |                              |                           |                    |                                                                  |
|-----------------------------------------------------------------------------------------------------------------|---------------------|-------------------------------------------------------------------------------------------------------------------------------|---------------------------------------|---------------------|----------------------------|------------------------------|---------------------------|--------------------|------------------------------------------------------------------|
| REVISED<br>EC NO: UCP2007-2827<br>DRAWN: JENKINS 2007/05/10<br>CHGK: CHKD: 2007/05/15<br>APPR: SREED 2007/05/15 | DESCRIPTION         | QUALITY SYMBOLS<br><br>▽.0                                                                                                    | 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><br>GBX 5-PAIR<br>RIGHT END BACKPLANE<br>SALES ASSEMBLY |
|                                                                                                                 |                     |                                                                                                                               | 4 PLACES ± --- ± ---                  | DRAWN BY<br>NMARTIN | DATE<br>2004/03/16         |                              |                           |                    |                                                                  |
|                                                                                                                 |                     |                                                                                                                               | 3 PLACES ± --- ± ---                  |                     |                            |                              |                           |                    |                                                                  |
|                                                                                                                 |                     |                                                                                                                               | 2 PLACES ± --- ± ---                  |                     |                            |                              |                           |                    |                                                                  |
| 1 PLACE ± --- ± ---                                                                                             | CHECKED BY<br>SREED | DATE<br>2004/03/16                                                                                                            | MOLEX INCORPORATED                    |                     |                            |                              |                           |                    |                                                                  |
| ANGULAR ± ---°                                                                                                  |                     | APPROVED BY<br>CBIXLER                                                                                                        |                                       | DATE<br>2004/03/16  | MATERIAL NO.<br>SEE CHART  | DOCUMENT NO.<br>SD-75237-410 | SHEET NO.<br>1 OF 1       |                    |                                                                  |
| DRAFT WHERE APPLICABLE                                                                                          |                     | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION |                                       |                     |                            |                              |                           |                    |                                                                  |
| B                                                                                                               | REV                 |                                                                                                                               | MUST REMAIN<br>WITHIN DIMENSIONS      |                     | A                          |                              |                           |                    | D                                                                |