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Part Number:

0758360104

Status:

Active

Overview:

gbx\_backplane\_connector\_system

Description:

1.85mm by 1.85mm (.073 by .073") Pitch 3-Pair GbX® Backplane Connector System, Open Header, 60 Circuits, Lead Free, Pin Length 4.55mm (.179")

Documents:

Drawing (PDF)

Packaging Specification (PDF)

Product Specification PS-75221-999 (PDF)

RoHS Certificate of Compliance (PDF)

Agency Certification

UL

E29179

General

Product Family

Series

Application

Application Tooling Documents

Comments

Component Type

Overview

Product Name

Style

Backplane Connectors

75836

Backplane

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

Open Header

PCB Header

gbx\_backplane\_connector\_system

GbX®

N/A

Physical

Circuits (Loaded)

Circuits (maximum)

Color - Resin

Durability (mating cycles max)

First Mate / Last Break

Flammability

Guide to Mating Part

Keying to Mating Part

Material - Metal

Material - Plating Mating

Material - Plating Termination

Material - Resin

Number of Columns

Number of Pairs

Number of Rows

Orientation

PC Tail Length (in)

PC Tail Length (mm)

PCB Locator

PCB Retention

PCB Thickness Recommended (in)

PCB Thickness Recommended (mm)

Packaging Type

Pitch - Mating Interface (in)

Pitch - Mating Interface (mm)

Pitch - Term. Interface (in)

Pitch - Term. Interface (mm)

Plating min: Mating (µin)

Plating min: Mating (µm)

Plating min: Termination (µin)

60

60

Black

200

No

94V-0

No

None

High Performance Alloy (HPA)

Gold

Tin

High Temperature Thermoplastic

10

3

6

Vertical

0.087 In

2.20 mm

No

Yes

0.063 In

1.60 mm

Tube

0.073 In

1.85 mm

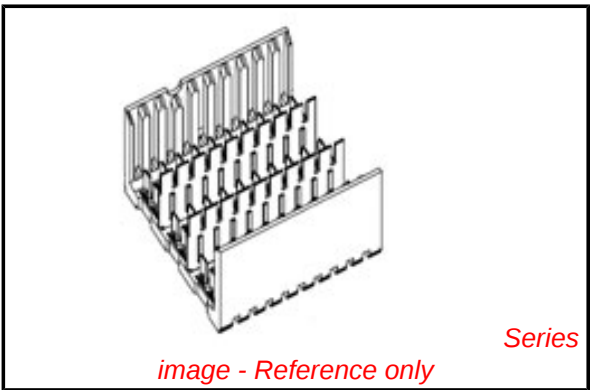
0.073 In

1.85 mm

30

0.76

30



EU RoHS

ELV and RoHS

Compliant

REACH SVHC

Contains SVHC: No

Halogen-Free

Status

Halogen-Free

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

75836Series

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® 3 Pair by 10

0622022510

Wide Differential

Insertion 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)       | 82                  |
| Shield Type                   | Ground Plane Shield |
| Shielded                      | Yes                 |
| Voltage - Maximum             | 120V AC (RMS)/DC    |

**Material Info**

**Reference - Drawing Numbers**

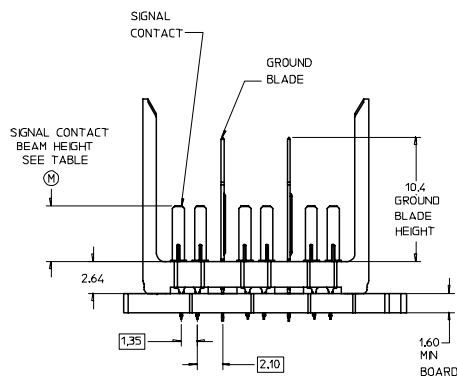
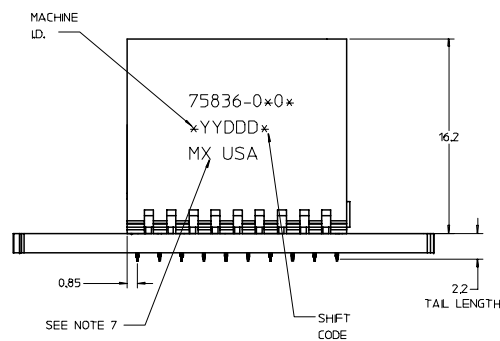
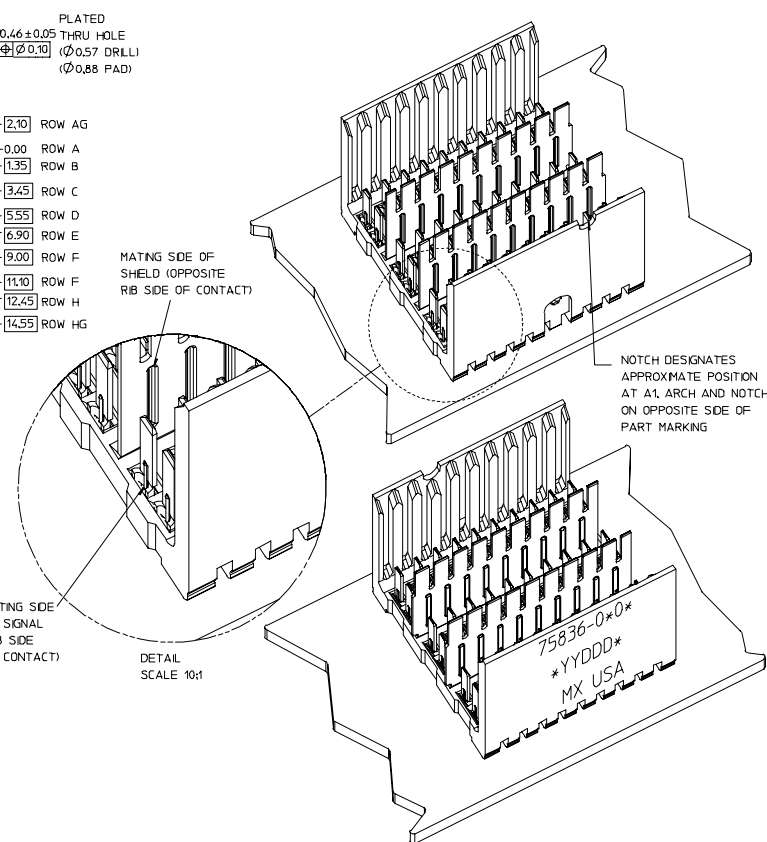
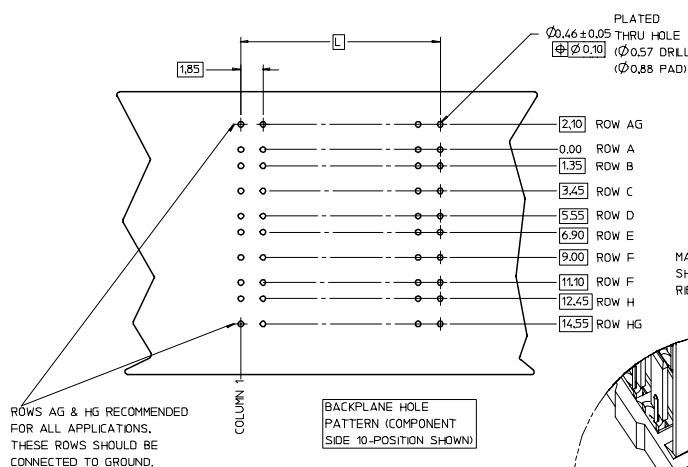
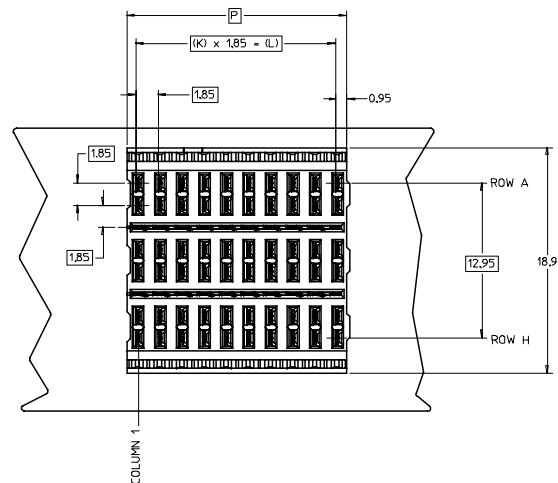
|                         |              |
|-------------------------|--------------|
| Packaging Specification | PK-70873-576 |
| Product Specification   | PS-75221-999 |
| Sales Drawing           | SD-75836-010 |

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This document was generated on 05/14/2010

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



LEAD-FREE  
PLATING ON  
SIGNALS & GROUNDS.

- 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 MATTE TIN (Sn) 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-70873-576.
  7. EITHER MARK PART NUMBER AND DATE CODE APPROXIMATELY WHERE SHOWN OR PLACE A LABEL ON THE TUBE.

| PART NUMBER TABLE |    |       |       |                                 |
|-------------------|----|-------|-------|---------------------------------|
| ASSY PART NO.     | K  | L     | P     | TOTAL NO. OF DIFFERENTIAL PAIRS |
| 75836-010*        | 9  | 16.65 | 18.35 | 30                              |
| 75836-020*        | 24 | 44.40 | 46.10 | 75                              |
| 75836-050*        | 4  | 7.40  | 9.10  | 15                              |

|                               |                                                                                                 |                    |                                       |                                       |                                                                                                                               |                           |                                                                   |                        |                    |  |       |
|-------------------------------|-------------------------------------------------------------------------------------------------|--------------------|---------------------------------------|---------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|---------------------------|-------------------------------------------------------------------|------------------------|--------------------|--|-------|
| REVISED                       | EC NO: UCP2006-2458<br>DRWN: JBINGHAM 2006/04/20<br>CHKD: 2006/04/20<br>APPR: CBXLER 2006/04/20 | DESCRIPTION        | QUALITY SYMBOLS<br><br>▽.0<br><br>▽.0 | GENERAL TOLERANCES (UNLESS SPECIFIED) |                                                                                                                               | SCALE 5:1                 | DESIGN UNITS METRIC                                               | THIRD ANGLE PROJECTION | REVISE ON CAD ONLY |  |       |
|                               |                                                                                                 |                    |                                       |                                       |                                                                                                                               | DIMENSION STYLE           |                                                                   |                        |                    |  | TITLE |
|                               |                                                                                                 |                    |                                       |                                       |                                                                                                                               | MM ONLY                   |                                                                   |                        |                    |  |       |
|                               |                                                                                                 |                    |                                       | 4 PLACES ± --- ± ---                  | 3 PLACES ± --- ± ---                                                                                                          | DRAWN BY DATE             |                                                                   |                        |                    |  |       |
|                               |                                                                                                 |                    |                                       | 2 PLACES ± --- ± ---                  | 1 PLACE ± --- ± ---                                                                                                           | CTHOMAS 2006/01/13        | GBX 3-PAIR OPEN END BACKPLANE ASSEMBLY<br>LEAD-FREE SALES DRAWING |                        |                    |  |       |
| ANGULAR ± ---°                |                                                                                                 | CHECKED BY DATE    |                                       |                                       |                                                                                                                               |                           |                                                                   |                        |                    |  |       |
| DRAFT WHERE APPLICABLE        |                                                                                                 | KMULVEY 2006/01/16 | MOLEX MOLEX INCORPORATED              |                                       |                                                                                                                               |                           |                                                                   |                        |                    |  |       |
| MUST REMAIN WITHIN DIMENSIONS |                                                                                                 | APPROVED BY DATE   |                                       |                                       |                                                                                                                               |                           |                                                                   |                        |                    |  |       |
|                               |                                                                                                 |                    |                                       | JBINGHAM 2006/01/17                   | MATERIAL NO. SEE CHART                                                                                                        | DOCUMENT NO. SD-75836-010 | SHEET NO. 1 OF 1                                                  |                        |                    |  |       |
|                               |                                                                                                 |                    |                                       |                                       | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION |                           |                                                                   |                        | D                  |  |       |