

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

Part Number:

0753310533

Status:

Active

Overview:

gbx\_backplane\_connector\_system

Description:

1.85mm by 1.85mm (.073 by .073") Pitch 3-Pair GbX® Backplane Connector System, Power Module, 6 Circuits, 1.27µm (50µ") Gold (Au), Lead Free

Documents:

Drawing (PDF)

Product Specification PS-75221-999 (PDF)

RoHS Certificate of Compliance (PDF)

General

Product Family

Backplane Connectors

Series

75331

Application

Backplane

Application Tooling Documents

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

Comments

Blade Length A 7.50mm, B 6.00mm, C 6.00mm

Component Type

Power Header

Overview

gbx\_backplane\_connector\_system

Product Name

GbX®

Style

N/A

Physical

Circuits (Loaded)

6

Circuits (maximum)

6

Circuits Detail

Rows A, B & C

Color - Resin

Gray (Dark)

Durability (mating cycles max)

200

First Mate / Last Break

Yes

Guide to Mating Part

No

Keying to Mating Part

None

Material - Metal

High Performance Alloy (HPA)

Material - Plating Mating

Gold

Material - Plating Termination

Tin

Material - Resin

High Temperature Thermoplastic

Number of Columns

N/A

Number of Pairs

3

Number of Rows

3

Orientation

Vertical

PC Tail Length (in)

0.090 In

PC Tail Length (mm)

2.28 mm

PCB Locator

Yes

PCB Retention

Yes

PCB Thickness Recommended (in)

0.063 In

PCB Thickness Recommended (mm)

1.60 mm

Packaging Type

Tube

Pitch - Mating Interface (in)

0.000 In

Pitch - Mating Interface (mm)

0.00 mm

Pitch - Term. Interface (in)

0.102 In

Pitch - Term. Interface (mm)

2.60 mm

Plating min: Mating (µin)

50

Plating min: Mating (µm)

1.25

Plating min: Termination (µin)

30

Plating min: Termination (µm)

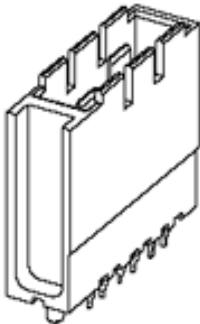
0.75

Polarized to PCB

Yes

Stackable

No



Series  
image - Reference only

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

75331Series

Mates With

75292 GbX® Daughtercard

|                                |                              |
|--------------------------------|------------------------------|
| Surface Mount Compatible (SMC) | Yes                          |
| Temperature Range - Operating  | 105°C                        |
| Termination Interface: Style   | Through Hole - Compliant Pin |

**Electrical**

|                               |                  |
|-------------------------------|------------------|
| Current - Maximum per Contact | 6A               |
| Data Rate                     | 8.0 Gbps         |
| Real Signals (per 25mm)       | 0                |
| Shield Type                   | N/A              |
| Shielded                      | No               |
| Voltage - Maximum             | 120V AC (RMS)/DC |

**Material Info**

**Reference - Drawing Numbers**

|                         |              |
|-------------------------|--------------|
| Packaging Specification | PK-70873-571 |
| Product Specification   | PS-75221-999 |
| Sales Drawing           | SD-75331-001 |

GbX is a registered trademark of Amphenol Corporation.

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10 9 8 7 6 5 4 3 2 1



### 1-UP ASSEMBLY PART NUMBER

7 5 3 3 1 - 0 A B C  
- TIN/LEAD PLATED PRODUCT -  
FOR EACH ROW LOCATION A, B, C:  
0 = VOID  
4 = 4.5 mm WIPE  
6 = 6.0 mm WIPE  
7 = 7.5 mm WIPE  
- LEAD-FREE PLATED PRODUCT -  
FOR EACH ROW LOCATION A, B, C:  
0 = VOID  
2 = 4.5 mm WIPE  
3 = 6.0 mm WIPE  
5 = 7.5 mm WIPE

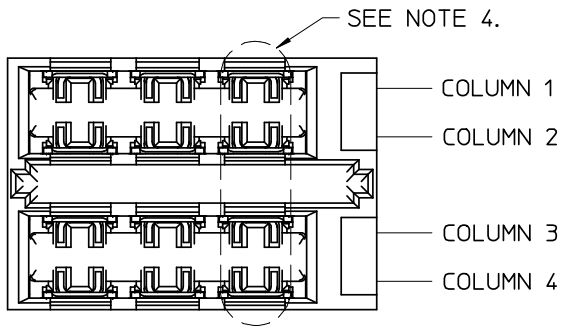
### NOTES:

1. MATERIALS: HOUSING - LIQUID CRYSTAL POLYMER (LCP), UL 94V-0, GRAY; CONTACT - COPPER ALLOY.
2. FINISH: SELECT GOLD IN CONTACT AREA, 50  $\mu$  " THICK, TIN/LEAD OR MATTE TIN IN COMPLIANT AREA.
3. PACKAGING PER PK-70873-571.
4. CONTACTS IN EACH ROW HAVE THE SAME WIPE LENGTH.
5. BACKPLANE ASSEMBLY MATES WITH DAUGHTERCARD POWER MODULE 75292-3\*\*\*.
6. PART SHOWN IS 75331-0467.
7. SEE OTHER SHEETS FOR ADDITIONAL NOTES.
8. WHEN INSERTING OPEN SIGNAL MODULES NEXT TO COLUMN 1 SIDE OF POWER MODULES, SIGNAL MODULES MUST BE INSERTED BEFORE THE POWERS TO AVOID INTERFERENCE BETWEEN THE TWO CONNECTOR HOUSINGS.
9. THESE PARTS CONFORM TO MOLEX PRODUCT SPECIFICATION PS-75221-999.
10. THESE PARTS CONFORM TO MOLEX COSMETIC SPECIFICATION PS-45499-002.



|                                                                                                                                     |                                   |             |                                                            |       |                            |                           |                                                                                                                                  |                                                          |                           |  |  |
|-------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------|-------------|------------------------------------------------------------|-------|----------------------------|---------------------------|----------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------|---------------------------|--|--|
| SPEC FILE CORRECTED<br>EC NO: UCP2008-2380<br>TDRWNG:ADVARA 2008/03/27<br>CHK'D: JB INGHAM 2008/03/27<br>APPR: JB INGHAM 2008/03/31 | QUALITY SYMBOLS<br><br>▽=0<br>▽=0 | DESCRIPTION | GENERAL TOLERANCES (UNLESS SPECIFIED)                      |       | DIMENSION STYLE<br>MM ONLY |                           | SCALE<br>4:1                                                                                                                     | DESIGN UNITS<br>METRIC                                   | THIRD ANGLE<br>PROJECTION |  |  |
|                                                                                                                                     |                                   |             |                                                            | mm    | INCH                       | DRAWN BY<br>ELO           | DATE<br>2005/02/18                                                                                                               | TITLE<br>GBX 3 PAIR<br>BACKPLANE POWER<br>SALES ASSEMBLY |                           |  |  |
|                                                                                                                                     |                                   |             | 4 PLACES                                                   | ± --- | ± ---                      | CHECKED BY<br>ELO         | DATE<br>2005/02/22                                                                                                               |                                                          |                           |  |  |
|                                                                                                                                     |                                   |             | 3 PLACES                                                   | ± --- | ± ---                      | APPROVED BY<br>CUNNINGHAM | DATE<br>2005/02/23                                                                                                               | MOLEX INCORPORATED                                       |                           |  |  |
|                                                                                                                                     |                                   |             | 2 PLACES                                                   | ± --- | ± ---                      | MATERIAL NO.<br>SEE CHART | DOCUMENT NO.<br>SD-75331-001                                                                                                     |                                                          |                           |  |  |
| 1 PLACE                                                                                                                             | ± ---                             | ± ---       | DRAFT WHERE APPLICABLE<br>MUST REMAIN<br>WITHIN DIMENSIONS |       | SIZE<br>B                  |                           | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX<br>INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION |                                                          |                           |  |  |

10 9 8 7 6 5 4 3 2 1



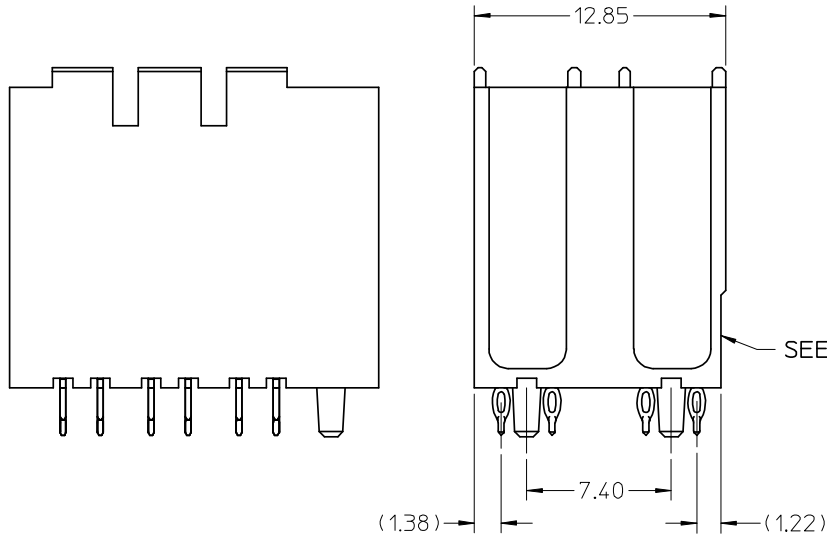
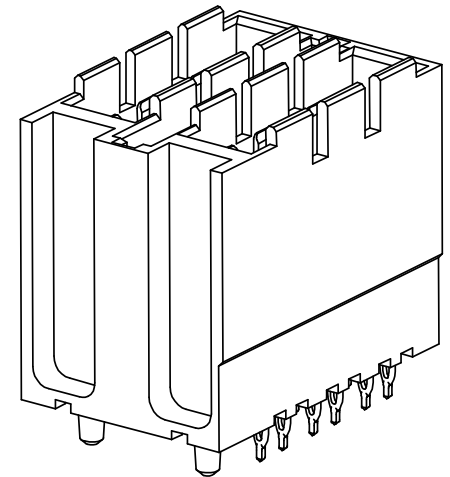
### 2-UP ASSEMBLY PART NUMBER

7 5 3 3 2 - 0 A B C

- TIN/LEAD PLATED PRODUCT -  
FOR EACH ROW LOCATION A, B, C:  
0 = VOID

4 = 4.5 mm WIPE  
6 = 6.0 mm WIPE  
7 = 7.5 mm WIPE

- LEAD-FREE PLATED PRODUCT -  
FOR EACH ROW LOCATION A, B, C:  
0 = VOID  
2 = 4.5 mm WIPE  
3 = 6.0 mm WIPE  
5 = 7.5 mm WIPE



SEE SHEET 1 FOR ADDITIONAL INFORMATION  
CHECK WITH PRODUCT MANAGER FOR AVAILABILITY

|                                                                                                                           |                               |                                                            |       |                            |      |                                                                                                                               |                        |                                                                                |  |
|---------------------------------------------------------------------------------------------------------------------------|-------------------------------|------------------------------------------------------------|-------|----------------------------|------|-------------------------------------------------------------------------------------------------------------------------------|------------------------|--------------------------------------------------------------------------------|--|
| SEE SHEET ONE<br>EC NO: UCP2008-2380<br>TIDRWD:VARVARA 2008/03/27<br>CHKD:JBINGHAM 2008/03/27<br>APPR:JBINGHAM 2008/03/31 | QUALITY SYMBOLS<br>▽=0<br>▽=0 | GENERAL TOLERANCES (UNLESS SPECIFIED)                      |       | DIMENSION STYLE<br>MM ONLY |      | SCALE<br>4:1                                                                                                                  | DESIGN UNITS<br>METRIC | THIRD ANGLE PROJECTION                                                         |  |
|                                                                                                                           |                               |                                                            |       | mm                         | INCH | DRAWN BY<br>ELO                                                                                                               | DATE<br>2005/02/18     | TITLE<br>GBX 3 PAIR<br>BACKPLANE POWER<br>SALES ASSEMBLY<br>MOLEX INCORPORATED |  |
|                                                                                                                           |                               | 4 PLACES                                                   | ± --- | ± ---                      |      | CHECKED BY<br>ELO                                                                                                             | DATE<br>2005/02/22     |                                                                                |  |
|                                                                                                                           |                               | 3 PLACES                                                   | ± --- | ± ---                      |      | APPROVED BY<br>CUNNINGHAM                                                                                                     | DATE<br>2005/02/23     |                                                                                |  |
| REV                                                                                                                       | DESCRIPTION                   | 2 PLACES                                                   | ± --- | ± ---                      |      | MATERIAL NO.                                                                                                                  |                        | DOCUMENT NO.                                                                   |  |
|                                                                                                                           |                               | 1 PLACE                                                    | ± --- | ± ---                      |      | SEE CHART                                                                                                                     |                        | SD-75331-001                                                                   |  |
|                                                                                                                           |                               | ANGULAR ± ---°                                             |       |                            |      | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION |                        | SHEET NO.<br>2 OF 4                                                            |  |
|                                                                                                                           |                               | DRAFT WHERE APPLICABLE<br>MUST REMAIN<br>WITHIN DIMENSIONS |       |                            |      |                                                                                                                               |                        |                                                                                |  |

9 8 7 6 5 4 3 2 1



SEE NOTE 4.

### 3-UP ASSEMBLY PART NUMBER

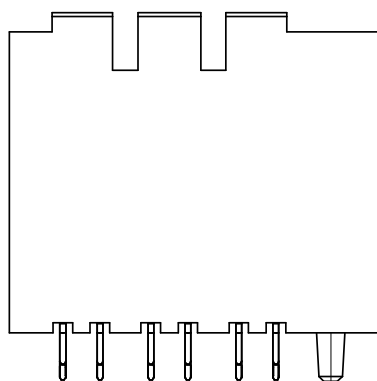
7 5 3 3 3 - 0 A B C

- TIN/LEAD PLATED PRODUCT -  
FOR EACH ROW LOCATION A, B, C:

0 = VOID  
4 = 4.5 mm WIPE  
6 = 6.0 mm WIPE  
7 = 7.5 mm WIPE

- LEAD-FREE PLATED PRODUCT -  
FOR EACH ROW LOCATION A, B, C:

0 = VOID  
2 = 4.5 mm WIPE  
3 = 6.0 mm WIPE  
5 = 7.5 mm WIPE



SEE NOTE 8.

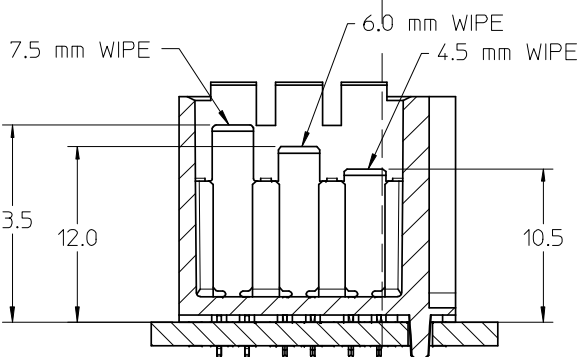
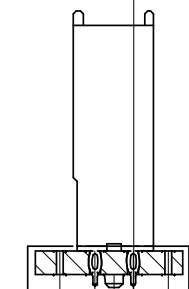
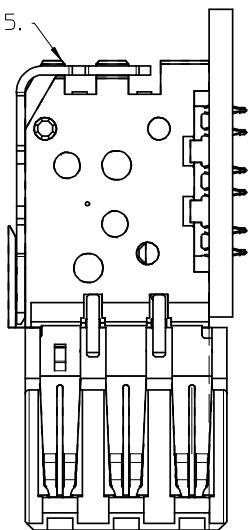
14.80

SEE SHEET 1 FOR ADDITIONAL INFORMATION  
CHECK WITH PRODUCT MANAGER FOR AVAILABILITY

|                                                                                                                                 |             |                                   |                                                            |           |                            |                                                                                                                                  |                    |                                                          |                           |  |  |
|---------------------------------------------------------------------------------------------------------------------------------|-------------|-----------------------------------|------------------------------------------------------------|-----------|----------------------------|----------------------------------------------------------------------------------------------------------------------------------|--------------------|----------------------------------------------------------|---------------------------|--|--|
| SEE SHEET ONE<br>EC NO: UCP2008-2380<br>TIDRWARDVARIARA 2008/03/27<br>CHK'D: JB INGHAM 2008/03/27<br>APPR: JB INGHAM 2008/03/31 | DESCRIPTION | QUALITY SYMBOLS<br><br>▽=0<br>▽=0 | GENERAL TOLERANCES (UNLESS SPECIFIED)                      |           | DIMENSION STYLE<br>MM ONLY |                                                                                                                                  | SCALE<br>4:1       | DESIGN UNITS<br>METRIC                                   | THIRD ANGLE<br>PROJECTION |  |  |
|                                                                                                                                 |             |                                   |                                                            | mm        | INCH                       | DRAWN BY<br>ELO                                                                                                                  | DATE<br>2005/02/18 | TITLE<br>GBX 3 PAIR<br>BACKPLANE POWER<br>SALES ASSEMBLY |                           |  |  |
|                                                                                                                                 |             |                                   | 4 PLACES                                                   | ± ---     | ± ---                      | CHECKED BY<br>ELO                                                                                                                | DATE<br>2005/02/22 |                                                          |                           |  |  |
|                                                                                                                                 |             |                                   | 3 PLACES                                                   | ± ---     | ± ---                      | APPROVED BY<br>CUNNINGHAM                                                                                                        | DATE<br>2005/02/23 | MOLEX INCORPORATED                                       |                           |  |  |
|                                                                                                                                 |             |                                   | 2 PLACES                                                   | ± ---     | ± ---                      | MATERIAL NO.                                                                                                                     | DOCUMENT NO.       |                                                          |                           |  |  |
| 1 PLACE                                                                                                                         | ± ---       | ± ---                             | DRAFT WHERE APPLICABLE<br>MUST REMAIN<br>WITHIN DIMENSIONS |           | SEE CHART                  |                                                                                                                                  | SD-75331-001       |                                                          |                           |  |  |
| ANGULAR                                                                                                                         | ± ---°      |                                   |                                                            | SIZE<br>B |                            | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX<br>INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION |                    |                                                          |                           |  |  |

10 9 8 7 6 5 4 3 2 1

SEE NOTE 5.



DC BOARD EDGE TO  
CENTERLINE OF BP TAIL

## HOLE PATTERN FOR 1-UP ASSEMBLY

- 1.) ADD 7.40 FROM CENTERLINES OF PEGS FOR MULTIPLE UP ASSEMBLIES.
- 2.) ADD 5.55 FROM CENTERLINE TO CENTERLINE OF PEG FOR INDIVIDUAL POWER MODULES STACKED NEXT TO EACH OTHER.



|                                                                                                                                 |             |                                                                                                                               |                                       |                              |                            |                           |                    |                                                          |                           |                     |  |
|---------------------------------------------------------------------------------------------------------------------------------|-------------|-------------------------------------------------------------------------------------------------------------------------------|---------------------------------------|------------------------------|----------------------------|---------------------------|--------------------|----------------------------------------------------------|---------------------------|---------------------|--|
| SEE SHEET ONE<br>EC NO: UCP2008-2380<br>TIDRWN: DVARVARA 2008/03/27<br>CHKD: JB INGHAM 2008/03/27<br>APPR: JB INGHAM 2008/03/31 | DESCRIPTION | QUALITY SYMBOLS<br><br>▽=0<br>▽=0                                                                                             | GENERAL TOLERANCES (UNLESS SPECIFIED) |                              | DIMENSION STYLE<br>MM ONLY |                           | SCALE<br>4:1       | DESIGN UNITS<br>METRIC                                   | THIRD ANGLE<br>PROJECTION |                     |  |
|                                                                                                                                 |             |                                                                                                                               |                                       | mm                           | INCH                       | DRAWN BY<br>ELO           | DATE<br>2005/02/18 | TITLE<br>GBX 3 PAIR<br>BACKPLANE POWER<br>SALES ASSEMBLY |                           |                     |  |
|                                                                                                                                 |             |                                                                                                                               | 4 PLACES                              | ± ---                        | ± ---                      | CHECKED BY<br>ELO         | DATE<br>2005/02/22 |                                                          |                           |                     |  |
|                                                                                                                                 |             |                                                                                                                               | 3 PLACES                              | ± ---                        | ± ---                      | APPROVED BY<br>CUNNINGHAM | DATE<br>2005/02/23 |                                                          |                           |                     |  |
|                                                                                                                                 |             |                                                                                                                               | 2 PLACES                              | ± ---                        | ± ---                      | MOLEX MOLEX INCORPORATED  |                    | DOCUMENT NO.                                             |                           | SHEET NO.<br>4 OF 4 |  |
|                                                                                                                                 |             |                                                                                                                               | 1 PLACE                               | ± ---                        | ± ---                      |                           |                    |                                                          |                           |                     |  |
|                                                                                                                                 |             |                                                                                                                               | ANGULAR ± ---°                        |                              | MATERIAL NO.               |                           |                    |                                                          |                           |                     |  |
| DRAFT WHERE APPLICABLE<br>MUST REMAIN<br>WITHIN DIMENSIONS                                                                      |             |                                                                                                                               |                                       | SEE PREVIOUS<br>SD-75331-001 |                            |                           |                    |                                                          |                           |                     |  |
| REV                                                                                                                             | SIZE<br>B   | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION |                                       |                              |                            |                           |                    |                                                          |                           |                     |  |



**Стандарт  
Электрон  
Связь**

Мы молодая и активно развивающаяся компания в области поставок электронных компонентов. Мы поставляем электронные компоненты отечественного и импортного производства напрямую от производителей и с крупнейших складов мира.

Благодаря сотрудничеству с мировыми поставщиками мы осуществляем комплексные и плановые поставки широчайшего спектра электронных компонентов.

Собственная эффективная логистика и склад в обеспечивает надежную поставку продукции в точно указанные сроки по всей России.

Мы осуществляем техническую поддержку нашим клиентам и предпродажную проверку качества продукции. На все поставляемые продукты мы предоставляем гарантию .

Осуществляем поставки продукции под контролем ВП МО РФ на предприятия военно-промышленного комплекса России , а также работаем в рамках 275 ФЗ с открытием отдельных счетов в уполномоченном банке. Система менеджмента качества компании соответствует требованиям ГОСТ ISO 9001.

Минимальные сроки поставки, гибкие цены, неограниченный ассортимент и индивидуальный подход к клиентам являются основой для выстраивания долгосрочного и эффективного сотрудничества с предприятиями радиоэлектронной промышленности, предприятиями ВПК и научно-исследовательскими институтами России.

С нами вы становитесь еще успешнее!

**Наши контакты:**

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