

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

Part Number:

0753414474

Status:

Active

Overview:

gbx\_backplane\_connector\_system

Description:

1.85mm by 1.85mm (.073 by .073") Pitch 4-Pair GbX® Backplane Connector System, Power Module, 12 Circuits, 1.27µm (50µ") Gold (Au)

Documents:

Drawing (PDF)

Product Specification PS-75221-999 (PDF)

RoHS Certificate of Compliance (PDF)

Agency Certification

UL

E29179

General

Product Family

Backplane Connectors

Series

75341

Application

Backplane

Application Tooling Documents

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

Comments

Blade Length A 4.50mm, B 4.50mm, C 7.50mm, D 4.50mm

Component Type

Power Header

Overview

gbx\_backplane\_connector\_system

Product Name

GbX®

Style

N/A

Physical

Circuits (Loaded)

8

Circuits (maximum)

8

Circuits Detail

Rows A, B, C, & D

Color - Resin

Gray

Durability (mating cycles max)

200

First Mate / Last Break

Yes

Flammability

94V-0

Guide to Mating Part

No

Keying to Mating Part

None

Material - Plating Mating

Gold

Material - Plating Termination

Tin-Lead

Material - Resin

High Temperature Thermoplastic

Number of Columns

N/A

Number of Pairs

4

Number of Rows

4

Orientation

Vertical

PC Tail Length (in)

0.089 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)

0.073 In

Pitch - Mating Interface (mm)

1.85 mm

Pitch - Term. Interface (in)

0.102 In

Pitch - Term. Interface (mm)

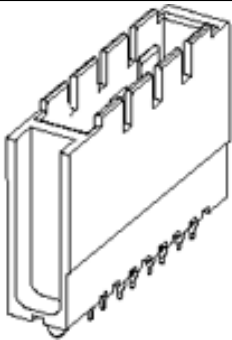
2.60 mm

Plating min: Mating (µin)

50

Plating min: Mating (µm)

1.25



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

75341Series

Mates With

75292 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 Module, GbX® 4 pair 1- Up Power Module | 0622022005 |
| GbX® Single Pin Repair Tool                      | 0622022090 |
| GbX® Shield Removal Tool                         | 0622022100 |

|                                |                              |
|--------------------------------|------------------------------|
| Plating min: Termination (μin) | 30                           |
| Plating min: Termination (μm)  | 0.75                         |
| Polarized to PCB               | Yes                          |
| Stackable                      | No                           |
| Surface Mount Compatible (SMC) | Yes                          |
| Temperature Range - Operating  | -55°C to +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                |
| Shielded                      | No               |
| Voltage - Maximum             | 120V AC (RMS)/DC |

**Material Info**

**Reference - Drawing Numbers**

|                       |              |
|-----------------------|--------------|
| Product Specification | PS-75221-999 |
| Sales Drawing         | SD-75341-001 |

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- 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-70873-562.
  4. CONTACTS IN EACH ROW HAVE THE SAME WIPE LENGTH.
  5. BACKPLANE ASSEMBLY MATES WITH DAUGHTERCARD POWER MODULE 75292-4\*\*\*.
  6. PART SHOWN IS 75343-4467 (SHEET 4).
  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 CLASS B.

1-UP ASSEMBLY PART NUMBER

7 5 3 4 1 - A B C D

- TIN/LEAD PLATED PRODUCT -

FOR EACH ROW LOCATION A, B, C, D:

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, D:

0 = VOID

2 = 4.5 mm WIPE

3 = 6.0 mm WIPE

5 = 7.5 mm WIPE

|                                                                                                                            |             |                                   |                                                            |       |                            |                                                                                                                               |                    |                                                                                              |                        |
|----------------------------------------------------------------------------------------------------------------------------|-------------|-----------------------------------|------------------------------------------------------------|-------|----------------------------|-------------------------------------------------------------------------------------------------------------------------------|--------------------|----------------------------------------------------------------------------------------------|------------------------|
| ADDED NOTES 9 & 10<br>EC NO: UCP2008-0426<br>DRAWN: STEWART 2007/08/29<br>CHKD: 2007/08/30<br>APPR: J.B. INGHAM 2007/08/31 | 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 PROJECTION |
|                                                                                                                            |             |                                   |                                                            | mm    | INCH                       | DRAWN BY<br>ELO                                                                                                               | DATE<br>2006/04/06 | TITLE<br><br>GBX 4 PAIR<br>BACKPLANE POWER<br>SALES ASSEMBLY<br><br>MOLEX MOLEX INCORPORATED |                        |
|                                                                                                                            |             |                                   | 4 PLACES                                                   | ± --- | ± ---                      | CHECKED BY<br>ELO                                                                                                             | DATE<br>2005/02/22 |                                                                                              |                        |
|                                                                                                                            |             |                                   | 3 PLACES                                                   | ± --- | ± ---                      | APPROVED BY<br>CUNNINGHAM                                                                                                     | DATE<br>2005/02/23 |                                                                                              |                        |
|                                                                                                                            |             |                                   | 2 PLACES                                                   | ± --- | ± ---                      | MATERIAL NO.<br>SEE CHART                                                                                                     |                    |                                                                                              |                        |
|                                                                                                                            |             |                                   | 1 PLACE                                                    | ± --- | ± ---                      | ANGULAR ± ---°                                                                                                                |                    | DOCUMENT NO.<br>SD-75341-001                                                                 | SHEET NO.<br>1 OF 4    |
|                                                                                                                            | REV         |                                   | DRAFT WHERE APPLICABLE<br>MUST REMAIN<br>WITHIN DIMENSIONS |       |                            | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX 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 4 2 - A B C D

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

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, D:

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

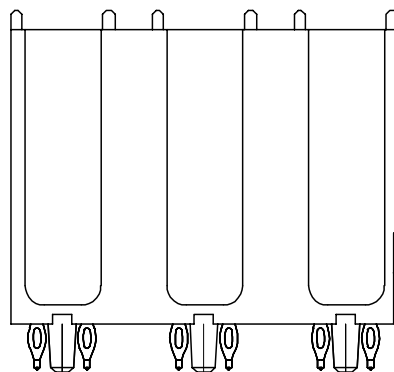
|                                                                                                                                |                                   |             |                                                            |                                                                                                                               |       |             |                            |                    |                                                                           |                        |                        |
|--------------------------------------------------------------------------------------------------------------------------------|-----------------------------------|-------------|------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|-------|-------------|----------------------------|--------------------|---------------------------------------------------------------------------|------------------------|------------------------|
| SEE SHEET ONE<br>EC NO: UCP2008-0426<br>DRAWN: STEWART 2007/08/29<br>CHKD: JINGHAM 2007/08/30<br>APPR: J. B. INGHAM 2007/08/31 | 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 PROJECTION |
|                                                                                                                                |                                   |             |                                                            |                                                                                                                               | mm    | INCH        | DRAWN BY<br>ELO            | DATE<br>2006/04/06 | GBX 4 PAIR<br>BACKPLANE POWER<br>SALES ASSEMBLY<br><br>MOLEX INCORPORATED |                        |                        |
|                                                                                                                                |                                   |             | 4 PLACES                                                   | ± ---                                                                                                                         | ± --- | CHECKED BY  | DATE                       |                    |                                                                           |                        |                        |
|                                                                                                                                |                                   |             | 3 PLACES                                                   | ± ---                                                                                                                         | ± --- | ELO         | 2005/02/22                 |                    |                                                                           |                        |                        |
|                                                                                                                                |                                   |             | 2 PLACES                                                   | ± ---                                                                                                                         | ± --- | APPROVED BY | DATE                       |                    |                                                                           |                        |                        |
|                                                                                                                                |                                   |             | 1 PLACE                                                    | ± ---                                                                                                                         | ± --- | CUNNINGHAM  | 2005/02/23                 |                    |                                                                           |                        |                        |
|                                                                                                                                |                                   |             | ANGULAR ± ---°                                             |                                                                                                                               |       |             | MATERIAL NO.               | DOCUMENT NO.       | SHEET NO.<br>2 OF 4                                                       |                        |                        |
|                                                                                                                                |                                   |             | DRAFT WHERE APPLICABLE<br>MUST REMAIN<br>WITHIN DIMENSIONS |                                                                                                                               |       |             | SEE CHART                  |                    | SD-75341-001                                                              |                        |                        |
|                                                                                                                                |                                   |             | SIZE<br>B                                                  | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION |       |             |                            |                    |                                                                           |                        |                        |
|                                                                                                                                |                                   |             | REV                                                        |                                                                                                                               |       |             |                            |                    |                                                                           |                        |                        |

9 8 7 6 5 4 3 2 1



COLUMN 1  
COLUMN 2  
COLUMN 3  
COLUMN 4  
COLUMN 5  
COLUMN 6

SEE NOTE 4.



SEE NOTE 8.

### 3-UP ASSEMBLY PART NUMBER

7 5 3 4 3 - A B C D

- TIN/LEAD PLATED PRODUCT -

FOR EACH ROW LOCATION A, B, C, D:

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, D:

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: UCP2008-0426<br>DRW: J. STEWART 2007/08/29<br>CHKD: J. STEWART 2007/08/30<br>APPR: J. INGHAM 2007/08/31 | 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>2006/04/06  | TITLE<br><br>GBX 4 PAIR<br>BACKPLANE POWER<br>SALES ASSEMBLY                                             |                                                                                                                 |  |  |
|                                                                                                                                 |                                   |             | 4 PLACES                                                   | ± ---                                                                                                                            | ± ---                      | CHECKED BY      | DATE                |                                                                                                          |                                                                                                                 |  |  |
|                                                                                                                                 |                                   |             | 3 PLACES                                                   | ± ---                                                                                                                            | ± ---                      | ELO             | 2005/02/22          |                                                                                                          |                                                                                                                 |  |  |
|                                                                                                                                 |                                   |             | 2 PLACES                                                   | ± ---                                                                                                                            | ± ---                      | APPROVED BY     | DATE                |                                                                                                          |                                                                                                                 |  |  |
|                                                                                                                                 |                                   |             | 1 PLACE                                                    | ± ---                                                                                                                            | ± ---                      | CUNNINGHAM      | 2005/02/23          |  MOLEX INCORPORATED |                                                                                                                 |  |  |
|                                                                                                                                 |                                   |             | ANGULAR ± ---°                                             |                                                                                                                                  | MATERIAL NO.               | DOCUMENT NO.    | SHEET NO.<br>3 OF 4 |                                                                                                          |                                                                                                                 |  |  |
|                                                                                                                                 |                                   |             | DRAFT WHERE APPLICABLE<br>MUST REMAIN<br>WITHIN DIMENSIONS |                                                                                                                                  | SEE CHART                  |                 |                     |                                                                                                          |                                                                                                                 |  |  |
|                                                                                                                                 |                                   |             | SIZE<br>B                                                  | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX<br>INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION |                            |                 |                     |                                                                                                          |                                                                                                                 |  |  |
|                                                                                                                                 |                                   |             | REV                                                        |                                                                                                                                  |                            |                 |                     |                                                                                                          |                                                                                                                 |  |  |

10 9 8 7 6 5 4 3 2 1

F  
E  
D  
C  
B  
A

SEE NOTE 5.

6.0 mm WIPE  
7.5 mm WIPE

4.5 mm WIPE

0.76  
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.



|                                                                                                             |                                             |                                       |           |                            |      |                                                                                                                               |                        |                                                          |  |
|-------------------------------------------------------------------------------------------------------------|---------------------------------------------|---------------------------------------|-----------|----------------------------|------|-------------------------------------------------------------------------------------------------------------------------------|------------------------|----------------------------------------------------------|--|
| ADDED $\phi 0.74 \pm 0.06$<br>EC NO: UCP2008-0426<br>DRAWN: STEWART<br>CHKD: J. BINGHAM<br>APPR: J. BINGHAM | QUALITY SYMBOLS<br>$\nabla=0$<br>$\nabla=0$ | 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>2006/04/06     | TITLE<br>GBX 4 PAIR<br>BACKPLANE POWER<br>SALES ASSEMBLY |  |
|                                                                                                             |                                             | 4 PLACES                              | $\pm$ --- | $\pm$ ---                  |      | CHECKED BY<br>ELO                                                                                                             | DATE<br>2005/02/22     |                                                          |  |
|                                                                                                             |                                             | 3 PLACES                              | $\pm$ --- | $\pm$ ---                  |      | APPROVED BY<br>CUNNINGHAM                                                                                                     | DATE<br>2005/02/23     | MOLEX INCORPORATED                                       |  |
| REV<br>C                                                                                                    | DESCRIPTION                                 | 2 PLACES                              | $\pm$ --- | $\pm$ ---                  |      | MATERIAL NO.                                                                                                                  | DOCUMENT NO.           |                                                          |  |
|                                                                                                             |                                             | 1 PLACE                               | $\pm$ --- | $\pm$ ---                  |      | SEE PREVIOUS                                                                                                                  |                        | SD-75341-001                                             |  |
|                                                                                                             |                                             | ANGULAR $\pm$ ----                    |           | $\pm$ ----                 |      | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION |                        | SHEET NO.<br>4 OF 4                                      |  |

9 8 7 6 5 4 3 2 1

Компания «Океан Электроники» предлагает заключение долгосрочных отношений при поставках импортных электронных компонентов на взаимовыгодных условиях!

Наши преимущества:

- Поставка оригинальных импортных электронных компонентов напрямую с производств Америки, Европы и Азии, а так же с крупнейших складов мира;
- Широкая линейка поставок активных и пассивных импортных электронных компонентов (более 30 млн. наименований);
- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
- Экспресс доставка в любую точку России;
- Помощь Конструкторского Отдела и консультации квалифицированных инженеров;
- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
- Поставка электронных компонентов под контролем ВП;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
- При необходимости вся продукция военного и аэрокосмического назначения проходит испытания и сертификацию в лаборатории (по согласованию с заказчиком);
- Поставка специализированных компонентов военного и аэрокосмического уровня качества (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Actel, Aeroflex, Peregrine, VPT, Syfer, Eurofarad, Texas Instruments, MS Kennedy, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits, General Dynamics и др.);

Компания «Океан Электроники» является официальным дистрибьютором и эксклюзивным представителем в России одного из крупнейших производителей разъемов военного и аэрокосмического назначения «JONHON», а так же официальным дистрибьютором и эксклюзивным представителем в России производителя высокотехнологичных и надежных решений для передачи СВЧ сигналов «FORSTAR».



## JONHON

«JONHON» (основан в 1970 г.)

Разъемы специального, военного и аэрокосмического назначения:

(Применяются в военной, авиационной, аэрокосмической, морской, железнодорожной, горно- и нефтедобывающей отраслях промышленности)

«FORSTAR» (основан в 1998 г.)

ВЧ соединители, коаксиальные кабели,  
кабельные сборки и микроволновые компоненты:

(Применяются в телекоммуникациях гражданского и специального назначения, в средствах связи, РЛС, а так же военной, авиационной и аэрокосмической отраслях промышленности).



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