

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

Part Number:

0753414477

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)

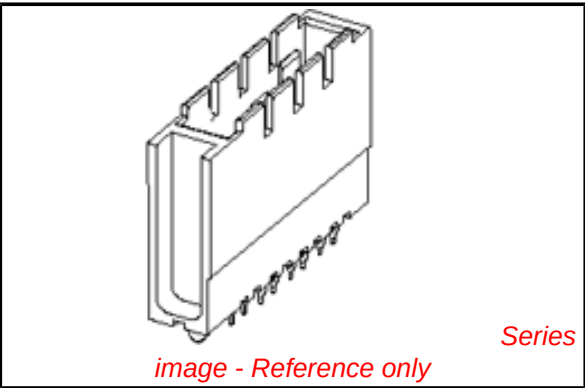
Documents:

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 7.50mm                             |
| 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                                                                            |



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 |

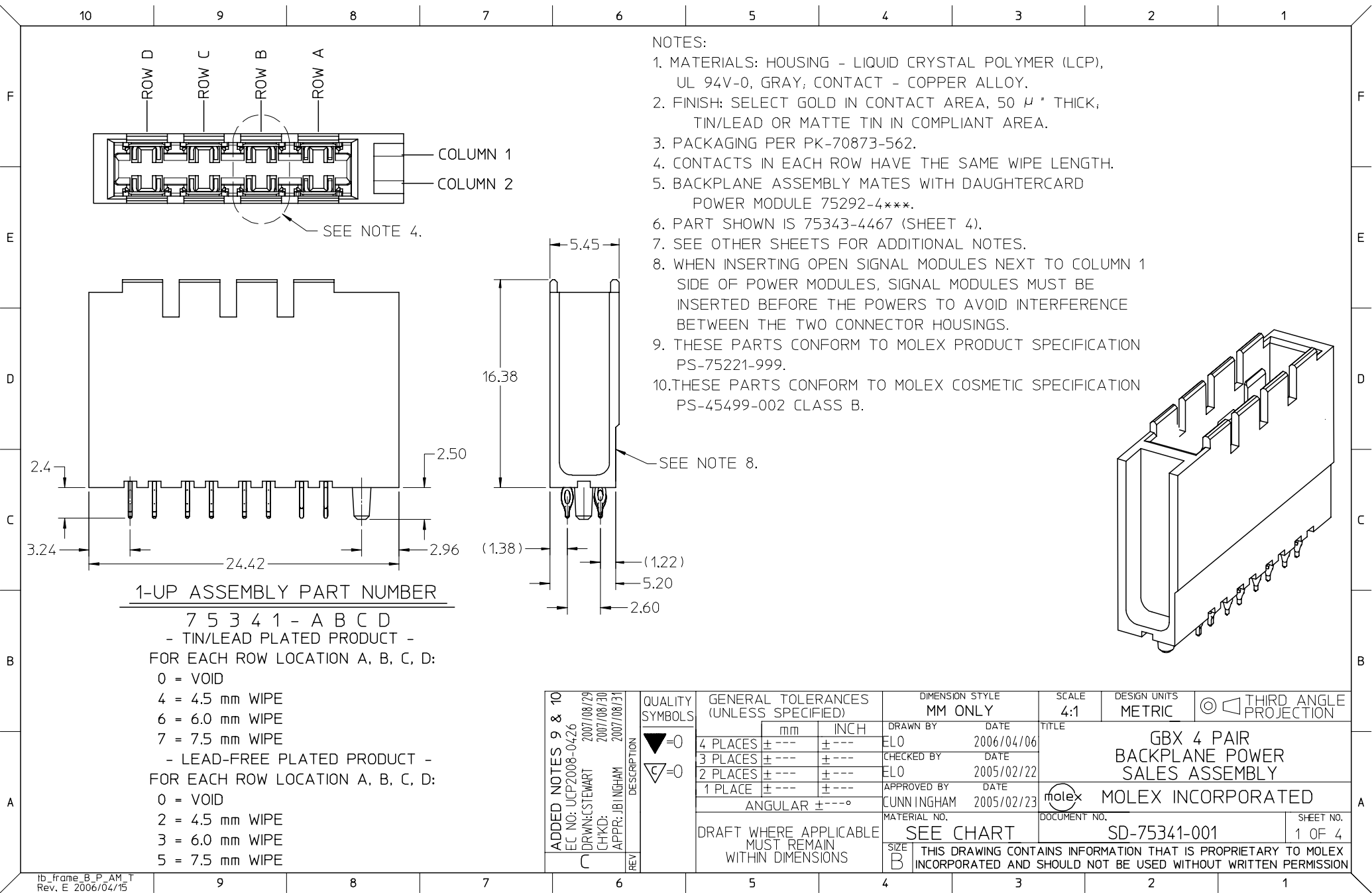
**Material Info**

**Reference - Drawing Numbers**

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

GbX is a registered trademark of Amphenol Corporation.

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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

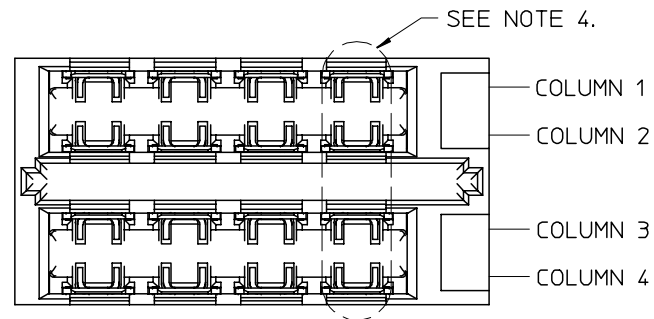
2 = 4.5 mm WIPE

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 | 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 |
|                                                                                                                            |                                   |             |                                                            |  | DRAWN BY DATE                                                                                                                    |  | TITLE<br><br>GBX 4 PAIR<br>BACKPLANE POWER<br>SALES ASSEMBLY<br><br>MOLEX INCORPORATED |                        |                                                                                                              |
|                                                                                                                            |                                   |             |                                                            |  | CHECKED BY DATE                                                                                                                  |  |                                                                                        |                        |                                                                                                              |
|                                                                                                                            |                                   |             |                                                            |  | APPROVED BY DATE                                                                                                                 |  |                                                                                        |                        |                                                                                                              |
|                                                                                                                            |                                   |             |                                                            |  | CUNNINGHAM 2005/02/23                                                                                                            |  |                                                                                        |                        |                                                                                                              |
|                                                                                                                            |                                   |             |                                                            |  | MATERIAL NO.                                                                                                                     |  |                                                                                        |                        |                                                                                                              |
| C                                                                                                                          | REV                               |             | DRAFT WHERE APPLICABLE<br>MUST REMAIN<br>WITHIN DIMENSIONS |  | SIZE<br>B                                                                                                                        |  | DOCUMENT NO.<br>SD-75341-001                                                           |                        | SHEET NO.<br>1 OF 4                                                                                          |
|                                                                                                                            |                                   |             |                                                            |  | 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

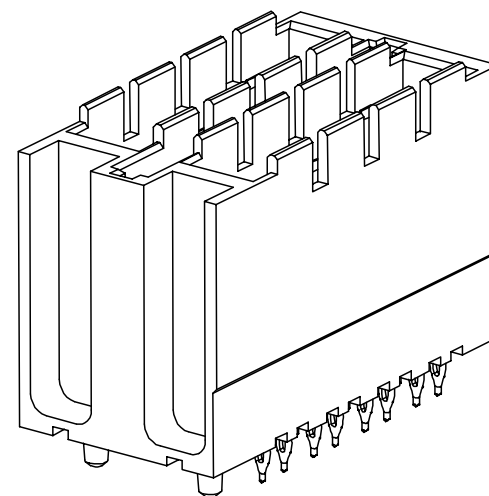
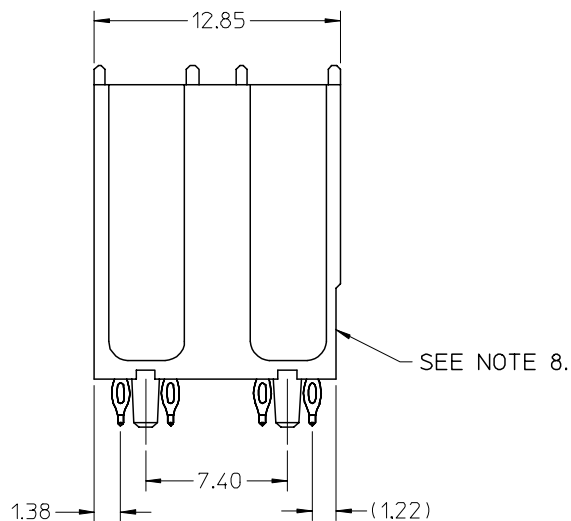
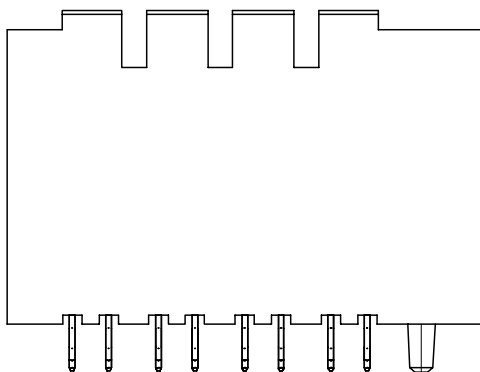
7 5 3 4 2 - A B C D

- 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:

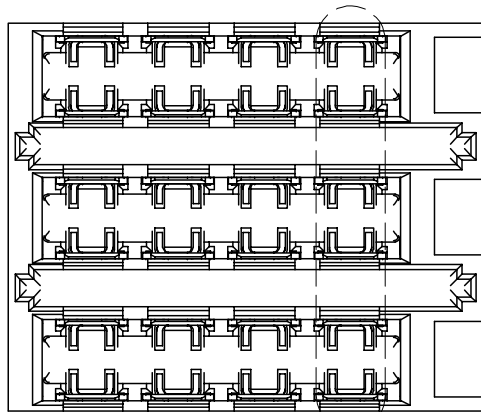
0 = VOID  
2 = 4.5 mm WIPE  
3 = 6.0 mm WIPE  
5 = 7.5 mm WIPE



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

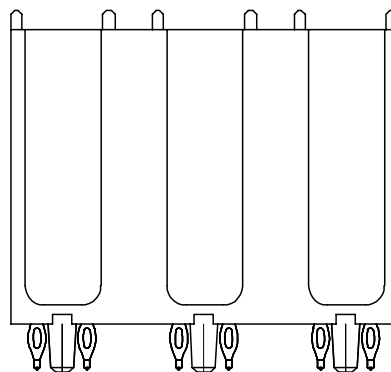
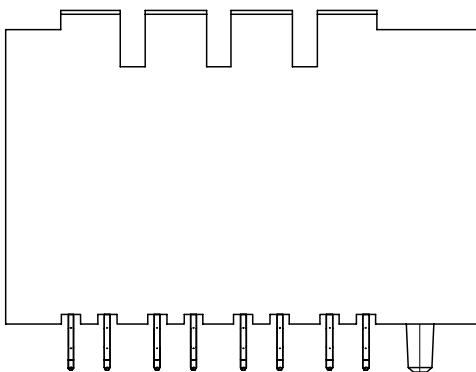
|                                                                                                                          |                                   |             |                                                            |  |       |  |                            |  |                                                                                                                               |                        |                                                                                        |  |  |  |
|--------------------------------------------------------------------------------------------------------------------------|-----------------------------------|-------------|------------------------------------------------------------|--|-------|--|----------------------------|--|-------------------------------------------------------------------------------------------------------------------------------|------------------------|----------------------------------------------------------------------------------------|--|--|--|
| SEE SHEET ONE<br>EC NO: UCP2008-0426<br>DRAWN: C STEWART 2007/08/29<br>CHKD: 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<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<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.                                                                              |  |  |  |
|                                                                                                                          |                                   |             | DRAFT WHERE APPLICABLE<br>MUST REMAIN<br>WITHIN DIMENSIONS |  |       |  | SEE CHART                  |  | SD-75341-001                                                                                                                  |                        | 2 OF 4                                                                                 |  |  |  |
|                                                                                                                          |                                   |             |                                                            |  |       |  | 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 -

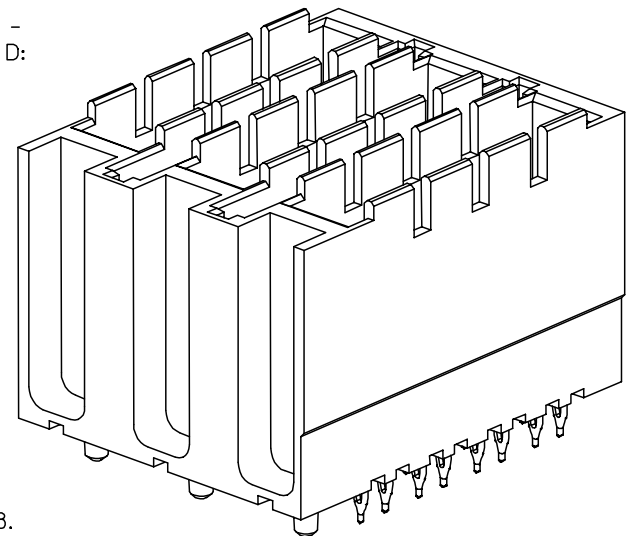
FOR EACH ROW LOCATION A, B, C, D:

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 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                  |                 |                                                                                                                               |                                                                                                          |                                                                                                              | SD-75341-001 |  |  |
|                                                                                                                                 |                                   |             | REV                                                        | C     |                            | SIZE<br>B       | 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

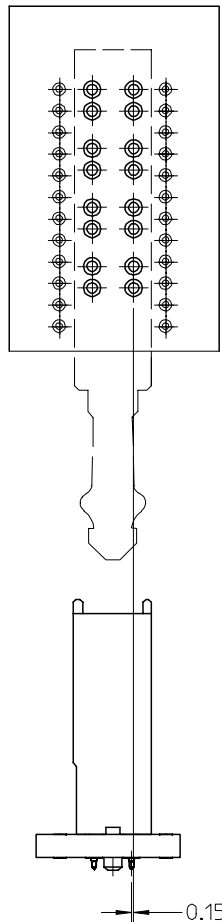
F  
E  
D  
C  
B  
A

SEE NOTE 5.

6.0 mm WIPE  
7.5 mm WIPE

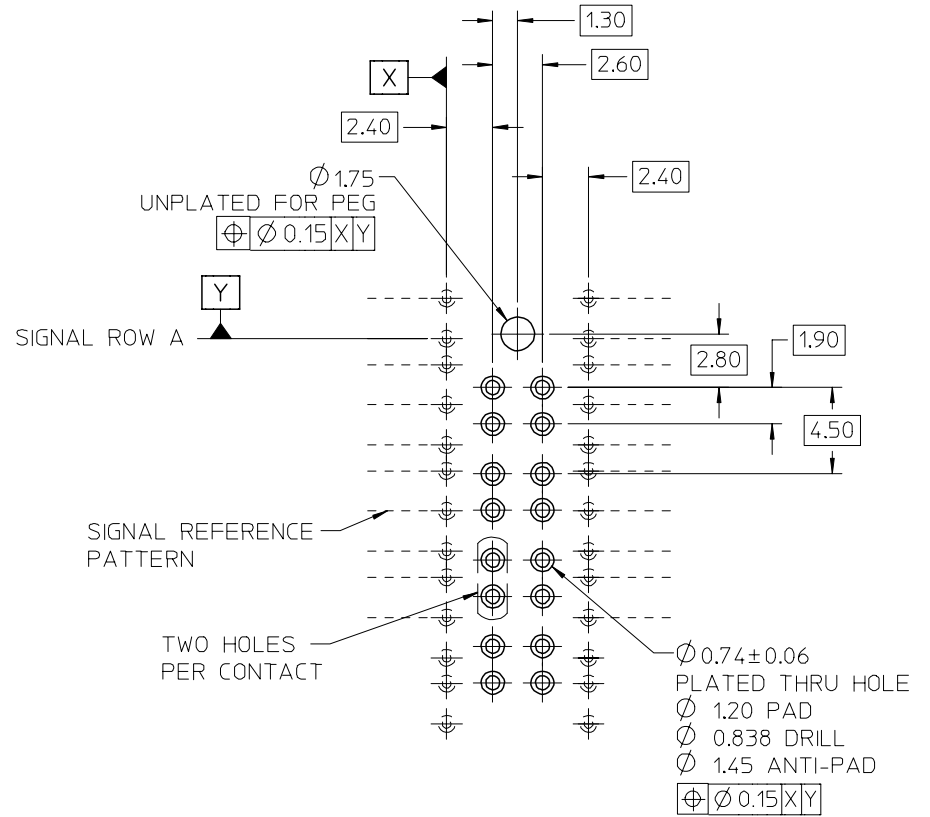
4.5 mm WIPE

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 2007/08/29<br>CHKD: 2007/08/30<br>APPR: J. BINGHAM 2007/08/31 | 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 $\pm$ ----                                         |           |                            |      |                           |                        |                                                          |  |
|                                                                                                                                   |                                             | DRAFT WHERE APPLICABLE<br>MUST REMAIN<br>WITHIN DIMENSIONS |           |                            |      |                           |                        | SHEET NO.<br>4 OF 4                                      |  |

9 8 7 6 5 4 3 2 1