

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

Part Number:

0753436777

Status:

Active

Overview:

gbx\_backplane\_connector\_system

Description:

1.85mm by 1.85mm (.073 by .073") Pitch 5-Pair GbX® Backplane Connector System, Power Module, 48 Circuits, 1.3µm (50µ") Gold (Au)

Documents:

Drawing (PDF)

Product Specification PS-75221-999 (PDF)

RoHS Certificate of Compliance (PDF)

| General                       |                                                                                 |
|-------------------------------|---------------------------------------------------------------------------------|
| Product Family                | Backplane Connectors                                                            |
| Series                        | 75343                                                                           |
| Application                   | Backplane                                                                       |
| Application Tooling Documents | <a href="http://www.molex.com/pdm_docs/ats/TM-622022099.pdf">Tooling Manual</a> |
| Comments                      | Blade Length A 6.00mm, B 7.50mm, C 7.50mm, D 7.50mm                             |
| Component Type                | Power Header                                                                    |
| Overview                      | gbx_backplane_connector_system                                                  |
| Product Name                  | GbX®                                                                            |
| Style                         | N/A                                                                             |

| Physical                       |                                |
|--------------------------------|--------------------------------|
| Circuits (Loaded)              | 24                             |
| Circuits (maximum)             | 24                             |
| Circuits Detail                | Rows A, B, C & D               |
| 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 | 90/10 Tin Lead                 |
| Material - Resin               | High Temperature Thermoplastic |
| Number of Columns              | N/A                            |
| Number of Pairs                | 5                              |
| Number of Rows                 | 4                              |
| Orientation                    | Vertical                       |
| PC Tail Length (in)            | 0.094 In                       |
| PC Tail Length (mm)            | 2.40 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                            |

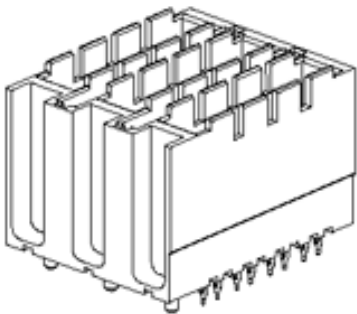


image - Reference only

Series

EU RoHS

RoHS Compliant by Exemption

REACH SVHC

Contains SVHC: No

Halogen-Free

Status

Halogen-Free

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

75343Series

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 3 - Up Power Module                                                                                                                               | 0622022061 |
| GbX® Single Pin Repair Tool                                                                                                                                                     | 0622022090 |
| GbX® Shield Removal Tool                                                                                                                                                        | 0622022100 |

|                                |                              |
|--------------------------------|------------------------------|
| Stackable                      | No                           |
| 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                |
| Shielded                      | No               |
| Voltage - Maximum             | 120V AC (RMS)/DC |

**Material Info**

**Reference - Drawing Numbers**

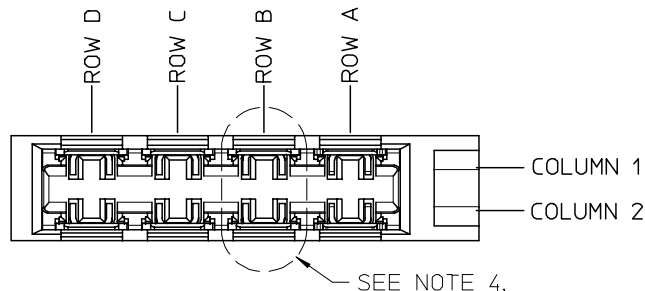
|                         |              |
|-------------------------|--------------|
| Packaging Specification | PK-70873-562 |
| Product Specification   | PS-75221-999 |
| Sales Drawing           | SD-75341-001 |

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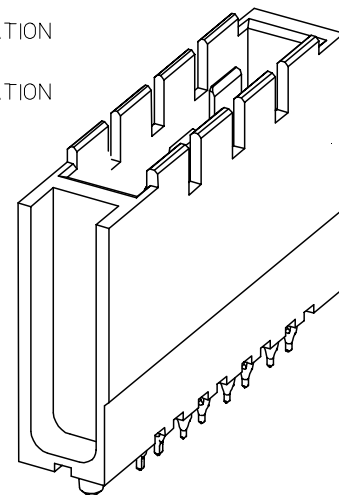
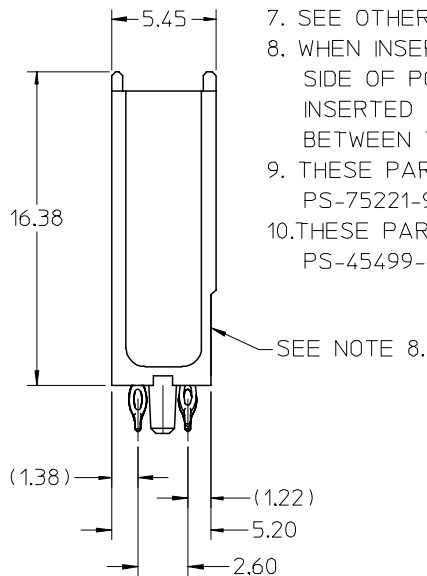
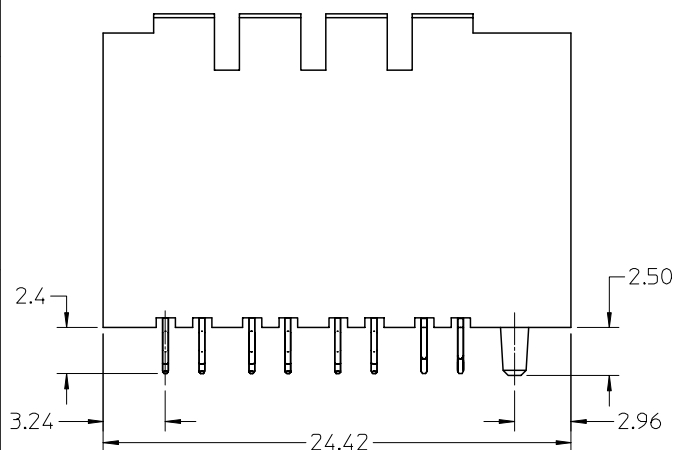
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10 9 8 7 6 5 4 3 2 1



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.



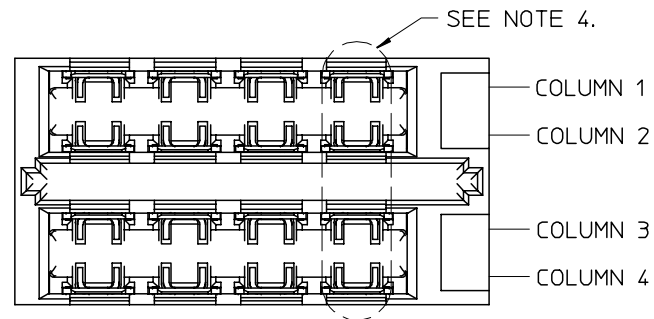
1-UP ASSEMBLY PART NUMBER

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<br>ELO            | DATE<br>2006/04/06 | TITLE<br>GBX 4 PAIR<br>BACKPLANE POWER<br>SALES ASSEMBLY |                        |                        |                     |  |
|                                                                                                                            |                                   |             |                                                            |                                                                                                                               | CHECKED BY<br>ELO          | DATE<br>2005/02/22 |                                                          |                        |                        |                     |  |
|                                                                                                                            |                                   |             |                                                            |                                                                                                                               | APPROVED BY<br>CUNNINGHAM  | DATE<br>2005/02/23 | MOLEX MOLEX INCORPORATED                                 |                        |                        |                     |  |
|                                                                                                                            |                                   |             |                                                            |                                                                                                                               | ANGULAR ±---°              |                    |                                                          |                        |                        |                     |  |
|                                                                                                                            |                                   |             | DRAFT WHERE APPLICABLE<br>MUST REMAIN<br>WITHIN DIMENSIONS |                                                                                                                               | SEE CHART                  |                    | DOCUMENT NO.<br>SD-75341-001                             |                        |                        | SHEET NO.<br>1 OF 4 |  |
| C                                                                                                                          | REV                               | SIZE<br>B   |                                                            | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION |                            |                    |                                                          |                        |                        |                     |  |

9 8 7 6 5 4 3 2 1

10 9 8 7 6 5 4 3 2 1



### 2-UP ASSEMBLY PART NUMBER

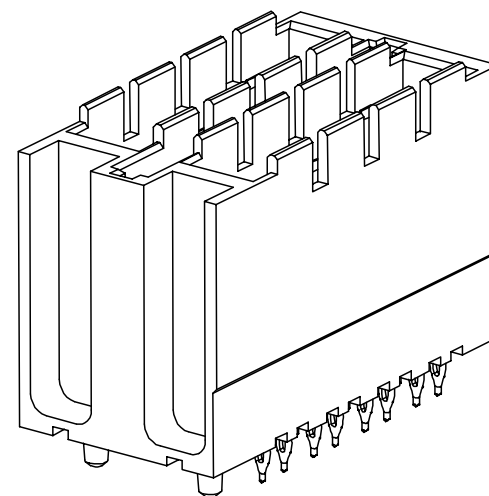
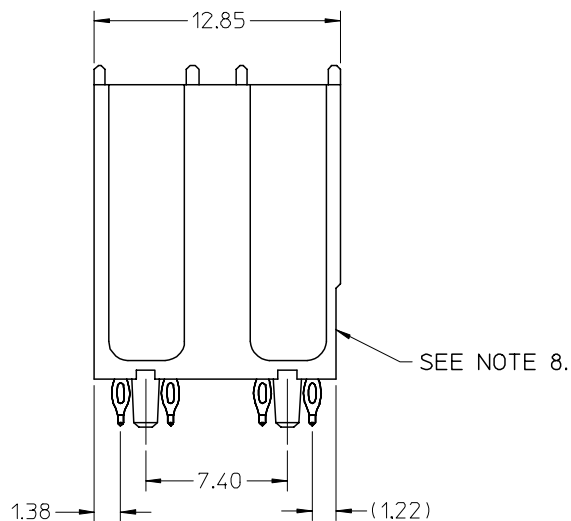
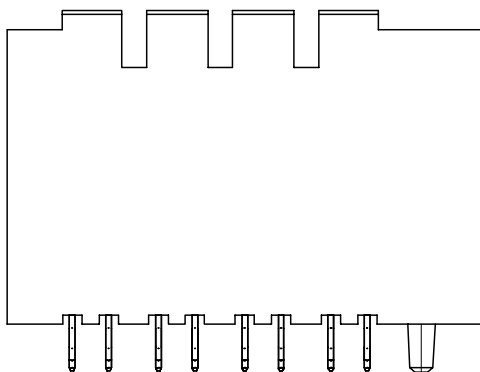
7 5 3 4 2 - A B C D

- 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:

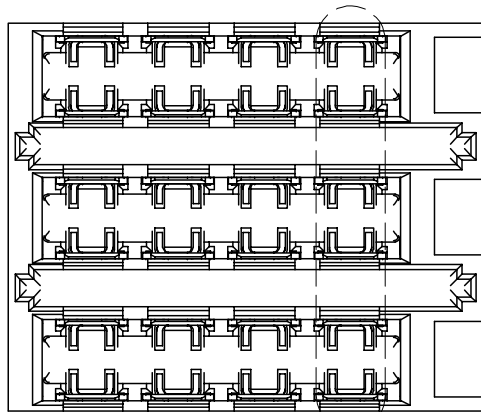
0 = VOID  
2 = 4.5 mm WIPE  
3 = 6.0 mm WIPE  
5 = 7.5 mm WIPE



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

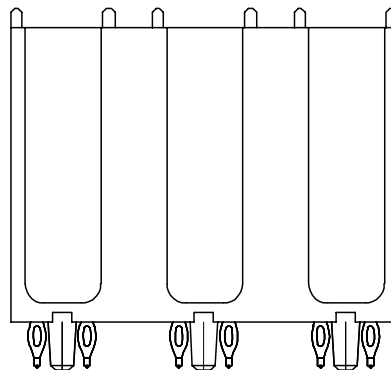
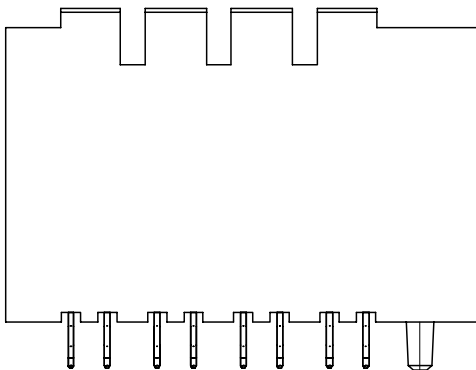
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|----------------------------------------------------------------------------------------------------------------------|-----------------------------------|-------------|------------------------------------------------------------|-------|-------|--------------------------------------|----------------------------|----------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------|------------------------|------------------------|--|--|
| SEE SHEET ONE<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><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<br>ELO                    | DATE<br>2005/02/22         |                                                                                                                                  |                                                                           |                        |                        |  |  |
|                                                                                                                      |                                   |             | 3 PLACES                                                   | ± --- | ± --- | APPROVED BY<br>CUNNINGHAM 2005/02/23 |                            |                                                                                                                                  |                                                                           |                        |                        |  |  |
|                                                                                                                      |                                   |             | 2 PLACES                                                   | ± --- | ± --- |                                      |                            |                                                                                                                                  |                                                                           |                        |                        |  |  |
|                                                                                                                      |                                   |             | 1 PLACE                                                    | ± --- | ± --- |                                      |                            |                                                                                                                                  |                                                                           |                        |                        |  |  |
|                                                                                                                      |                                   |             | 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<br>INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION |                                                                           |                        |                        |  |  |
|                                                                                                                      |                                   |             |                                                            |       |       |                                      |                            |                                                                                                                                  |                                                                           |                        |                        |  |  |

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 -

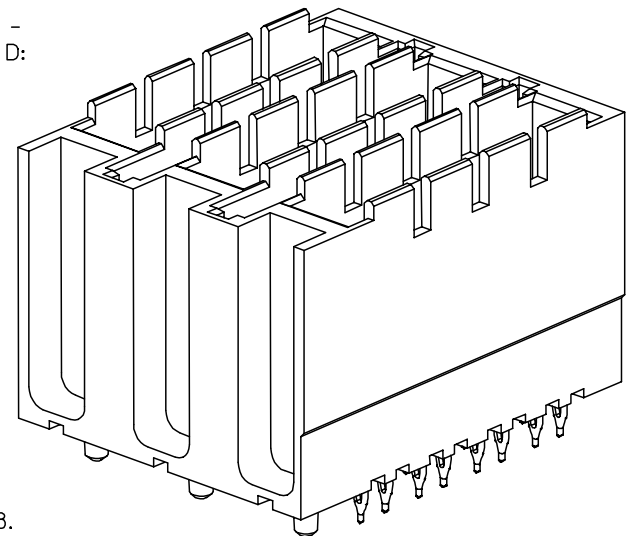
FOR EACH ROW LOCATION A, B, C, D:

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 |                            |                 |                     |                                                                                                          |                                                                                                                 |  |  |
|                                                                                                                                 |                                   |             | SD-75341-001                                               |                                                                                                                                  |                            |                 |                     |                                                                                                          |                                                                                                                 |  |  |

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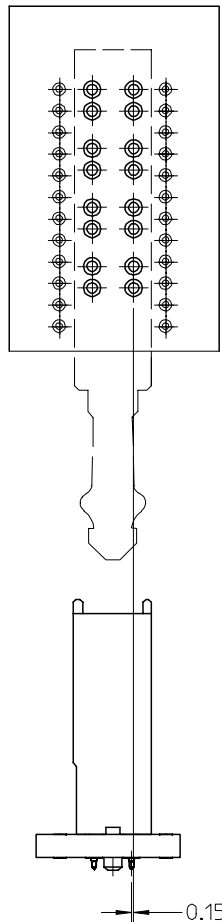
F  
E  
D  
C  
B  
A

SEE NOTE 5.

6.0 mm WIPE  
7.5 mm WIPE

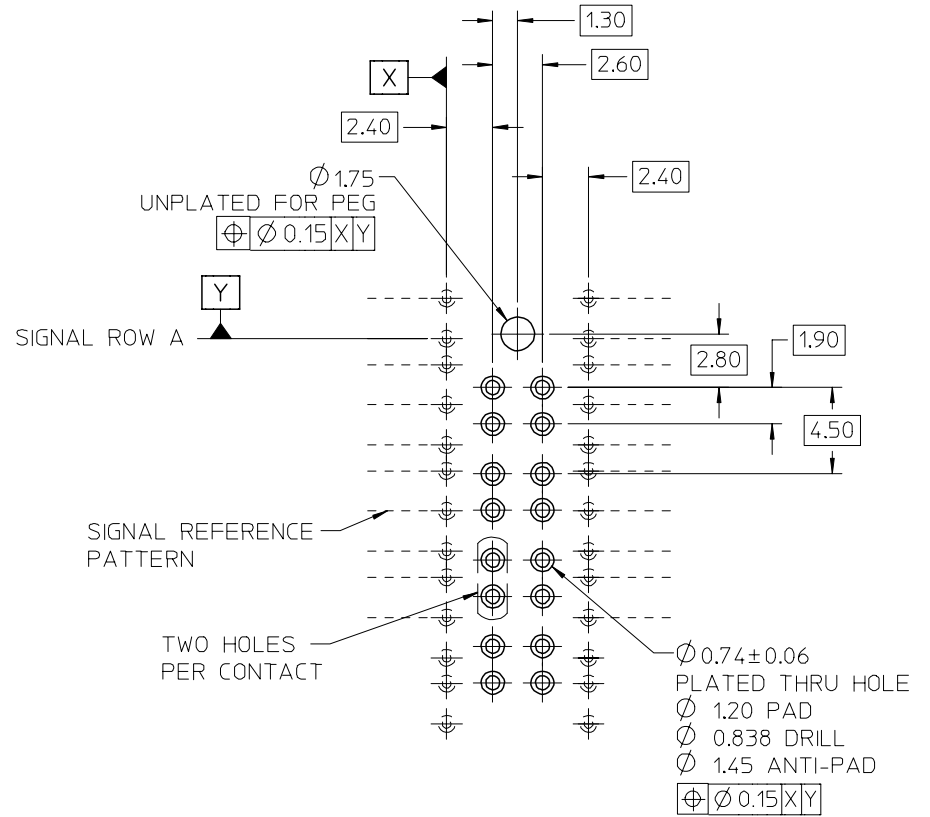
4.5 mm WIPE

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     | GBX 4 PAIR<br>BACKPLANE POWER<br>SALES ASSEMBLY<br><br>MOLEX INCORPORATED<br><br>SD-75341-001 |  |
|                                                                                                                                   |                                             | 4 PLACES                                                   | $\pm$ --- | $\pm$ ---                  |      | CHECKED BY                | DATE<br>2005/02/22     |                                                                                               |  |
|                                                                                                                                   |                                             | 3 PLACES                                                   | $\pm$ --- | $\pm$ ---                  |      | APPROVED BY<br>CUNNINGHAM | DATE<br>2005/02/23     |                                                                                               |  |
| REV<br>C                                                                                                                          | DESCRIPTION                                 | 2 PLACES                                                   | $\pm$ --- | $\pm$ ---                  |      | MATERIAL NO.              |                        | DOCUMENT NO.                                                                                  |  |
|                                                                                                                                   |                                             | 1 PLACE                                                    | $\pm$ --- | $\pm$ ---                  |      | SEE PREVIOUS              |                        | SHEET NO.<br>4 OF 4                                                                           |  |
|                                                                                                                                   |                                             | ANGULAR $\pm$ ----                                         |           |                            |      |                           |                        |                                                                                               |  |
|                                                                                                                                   |                                             | DRAFT WHERE APPLICABLE<br>MUST REMAIN<br>WITHIN DIMENSIONS |           |                            |      |                           |                        |                                                                                               |  |

9 8 7 6 5 4 3 2 1