

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

Part Number:

0753414646

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

Series

Application

Application Tooling Documents

Comments

Component Type

Overview

Product Name

Style

Backplane Connectors

75341

Backplane

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

Blade Length A 4.50mm, B 6.00mm, C 4.50mm, D 6.00mm

Power Header

gbx\_backplane\_connector\_system

GbX®

N/A

Physical

Circuits (Loaded)

Circuits (maximum)

Circuits Detail

Color - Resin

Durability (mating cycles max)

First Mate / Last Break

Flammability

Guide to Mating Part

Keying to Mating Part

Material - Plating Mating

Material - Plating Termination

Material - Resin

Number of Columns

Number of Pairs

Number of Rows

Orientation

PC Tail Length (in)

PC Tail Length (mm)

PCB Locator

PCB Retention

PCB Thickness Recommended (in)

PCB Thickness Recommended (mm)

Packaging Type

Pitch - Mating Interface (in)

Pitch - Mating Interface (mm)

Pitch - Term. Interface (in)

Pitch - Term. Interface (mm)

Plating min: Mating (µin)

Plating min: Mating (µm)

8

8

Rows A, B, C, & D

Gray

200

Yes

94V-0

No

None

Gold

Tin-Lead

High Temperature Thermoplastic

N/A

4

4

Vertical

0.089 In

2.28 mm

Yes

Yes

0.063 In

1.60 mm

Tube

0.073 In

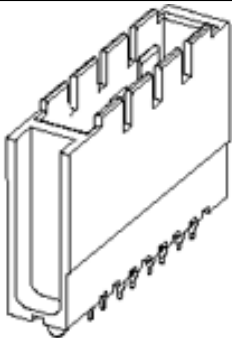
1.85 mm

0.102 In

2.60 mm

50

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 |

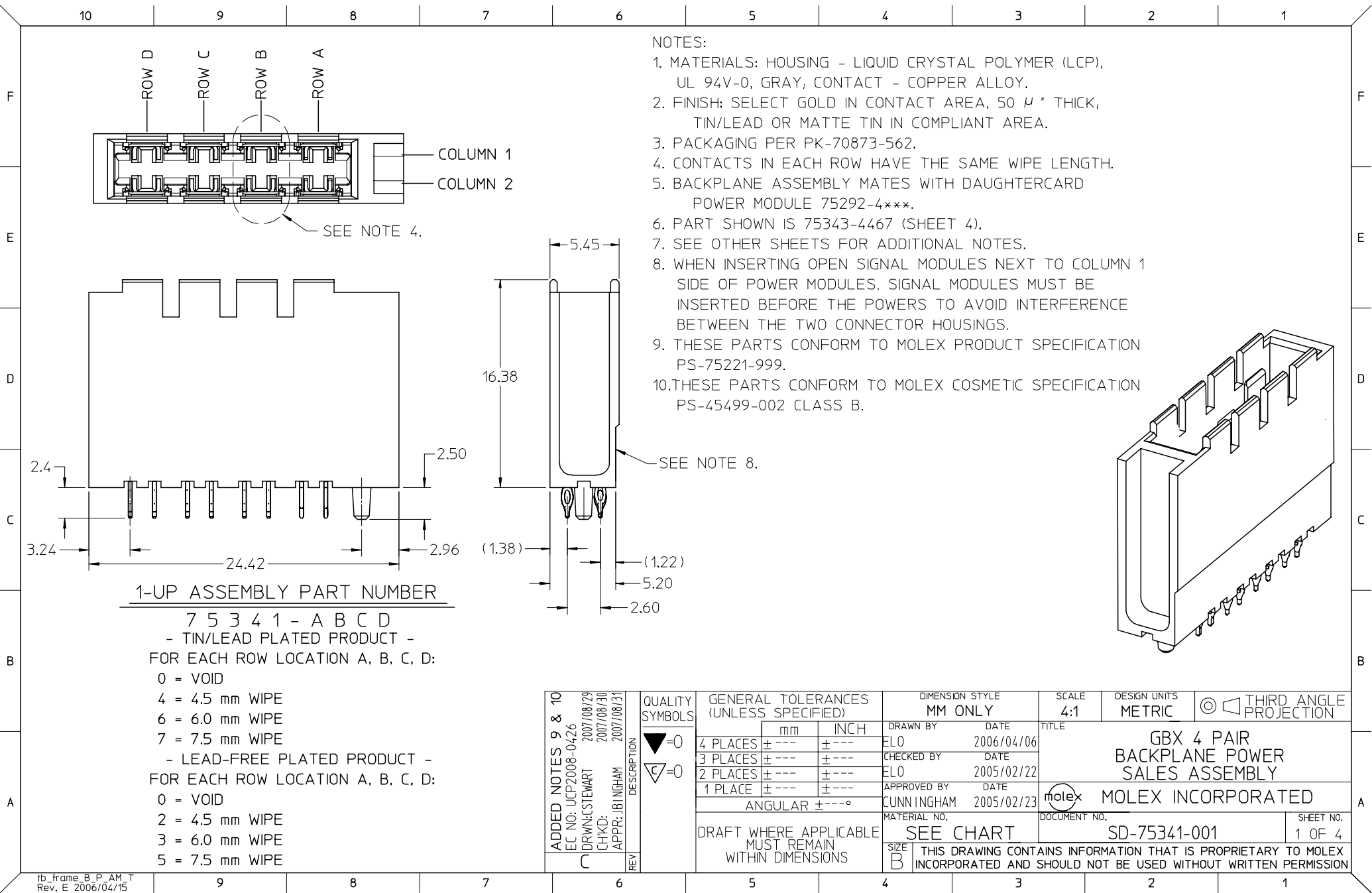
**Material Info**

**Reference - Drawing Numbers**

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

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1-UP ASSEMBLY PART NUMBER

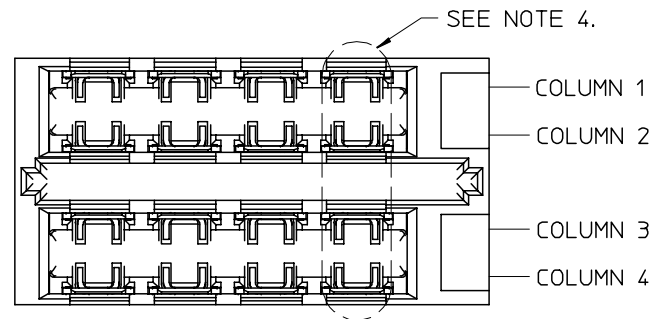
7 5 3 4 1 - A B C D  
- TIN/LEAD PLATED PRODUCT -  
FOR EACH ROW LOCATION A, B, C, D:  
0 = VOID  
4 = 4.5 mm WIPE  
6 = 6.0 mm WIPE  
7 = 7.5 mm WIPE  
- LEAD-FREE PLATED PRODUCT -  
FOR EACH ROW LOCATION A, B, C, D:  
0 = VOID  
2 = 4.5 mm WIPE  
3 = 6.0 mm WIPE  
5 = 7.5 mm WIPE

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.

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

10 9 8 7 6 5 4 3 2 1



### 2-UP ASSEMBLY PART NUMBER

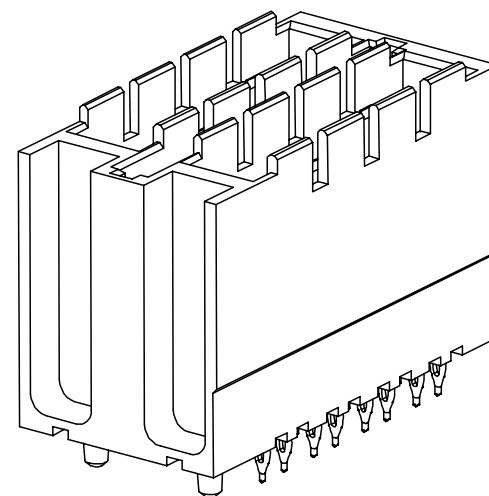
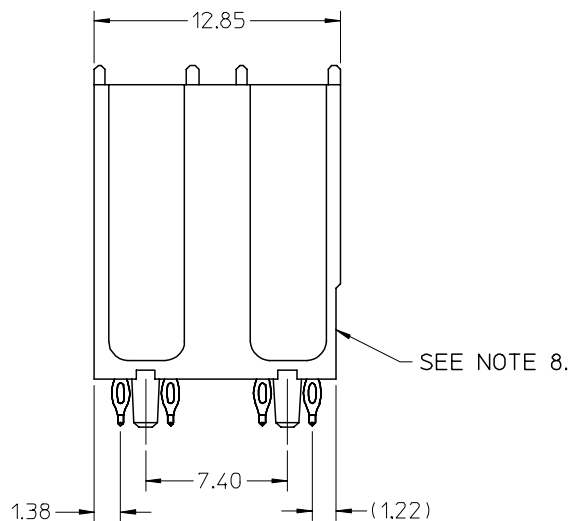
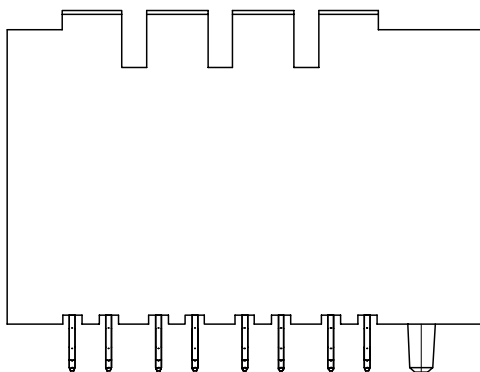
7 5 3 4 2 - A B C D

- 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:

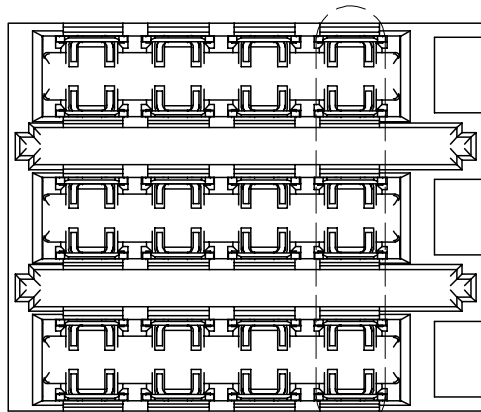
0 = VOID  
2 = 4.5 mm WIPE  
3 = 6.0 mm WIPE  
5 = 7.5 mm WIPE



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

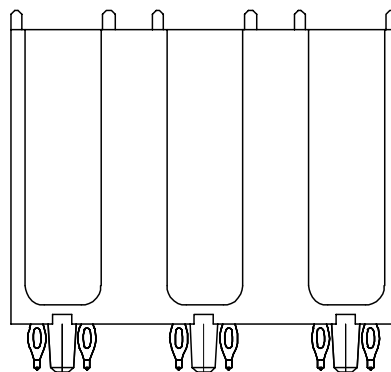
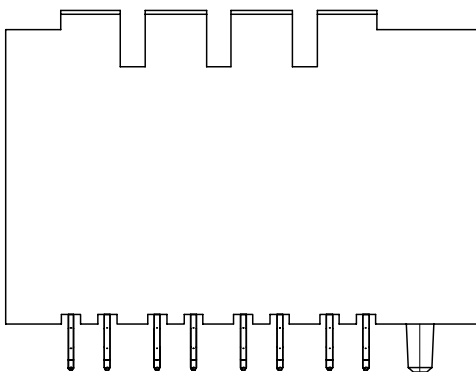
|                                                                                                                                     |                                   |             |                                                            |       |       |                                      |                            |                                                                                                                               |                                                                           |                        |                        |  |  |
|-------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------|-------------|------------------------------------------------------------|-------|-------|--------------------------------------|----------------------------|-------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------|------------------------|------------------------|--|--|
| SEE SHEET ONE<br>EC NO: UCP2008-0426<br>DRAWN: STEWART 2007/08/29<br>CHKD: J. B. INGHAM 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<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 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 -

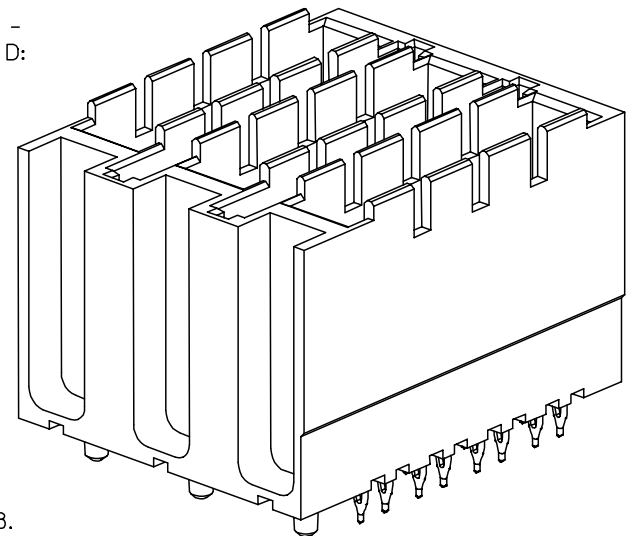
FOR EACH ROW LOCATION A, B, C, D:

0 = VOID

2 = 4.5 mm WIPE

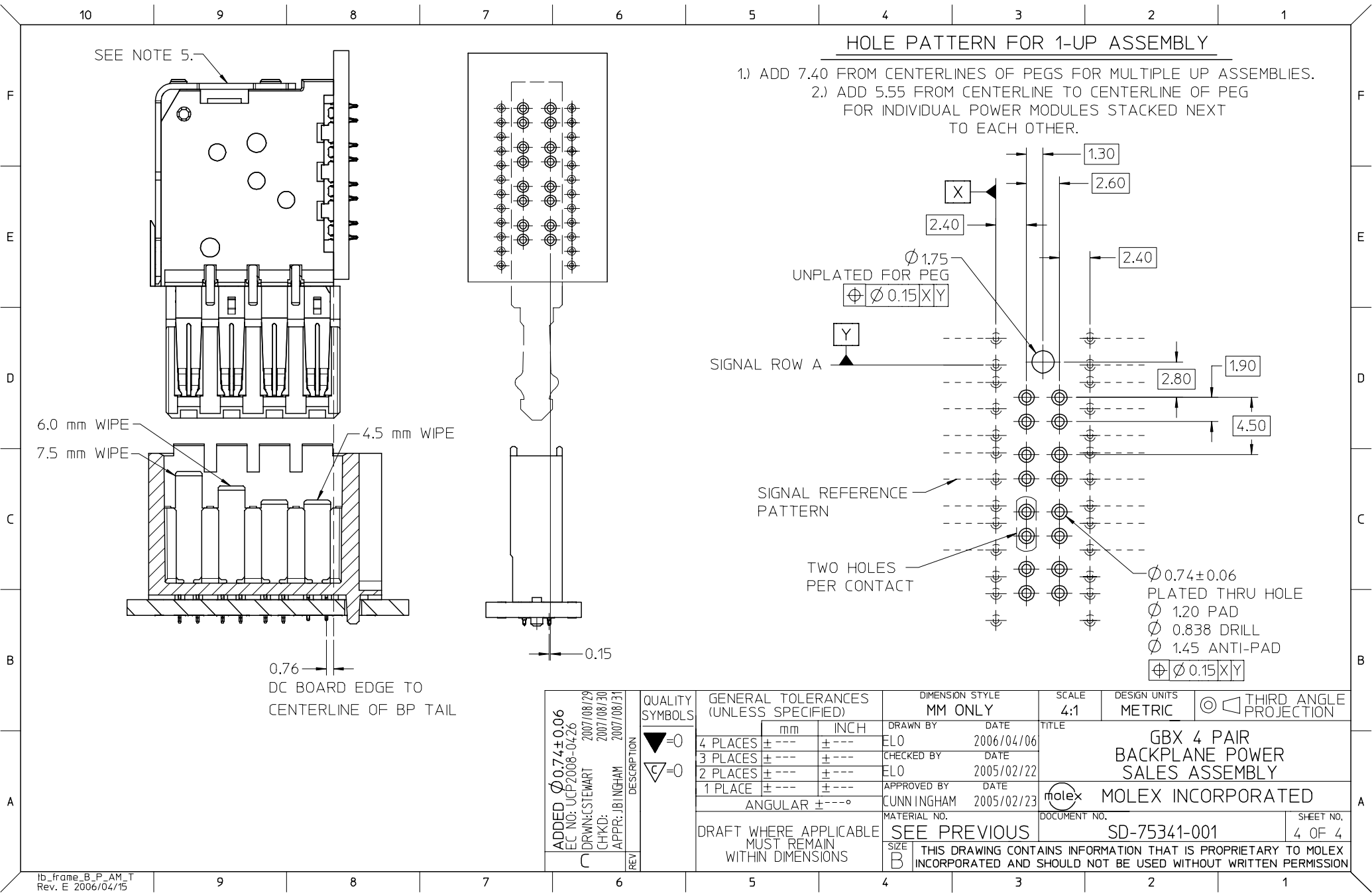
3 = 6.0 mm WIPE

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>DRAWN: STEWART 2007/08/29<br>CHKD: 2007/08/30<br>APPR: 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 | 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.       |                                                                                                          |                                                                                                              |                     |  |  |  |
|                                                                                                                   |                                   |             | DRAFT WHERE APPLICABLE<br>MUST REMAIN<br>WITHIN DIMENSIONS |       | SEE CHART                  |                                                                                                                                  | SD-75341-001       |                                                                                                          |                                                                                                              | SHEET NO.<br>3 OF 4 |  |  |  |
|                                                                                                                   |                                   |             | REV                                                        | C     | SIZE<br>B                  | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX<br>INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION |                    |                                                                                                          |                                                                                                              |                     |  |  |  |
|                                                                                                                   |                                   |             |                                                            |       |                            |                                                                                                                                  |                    |                                                                                                          |                                                                                                              |                     |  |  |  |



SEE NOTE 5.

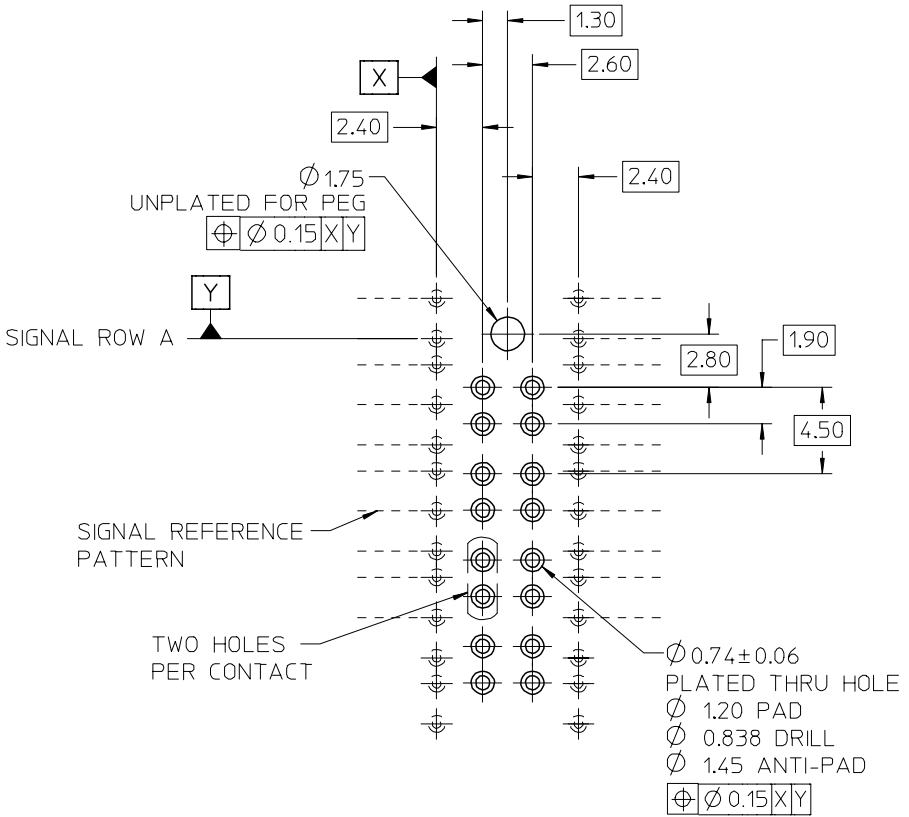
6.0 mm WIPE  
7.5 mm WIPE

0.76  
DC BOARD EDGE TO  
CENTERLINE OF BP TAIL

0.15

### 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 $\varnothing 0.74 \pm 0.06$<br>EC NO: UCP2008-0426<br>DRAWN: STEWART<br>CHKD: J.B. INGHAM<br>APPR: J.B. INGHAM | 2007/08/29<br>2007/08/30<br>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 |  |
|                                                                                                                      |                                        |                                   |             |                                                            |  | DRAWN BY<br>ELO              | DATE<br>2006/04/06 | TITLE<br>GBX 4 PAIR<br>BACKPLANE POWER<br>SALES ASSEMBLY<br>MOLEX INCORPORATED                                                   |                        |                           |  |
|                                                                                                                      |                                        |                                   |             |                                                            |  | CHECKED BY<br>ELO            | DATE<br>2005/02/22 |                                                                                                                                  |                        |                           |  |
|                                                                                                                      |                                        |                                   |             |                                                            |  | APPROVED BY<br>CUNNINGHAM    | DATE<br>2005/02/23 |                                                                                                                                  |                        |                           |  |
|                                                                                                                      |                                        |                                   |             | ANGULAR $\pm$ ----                                         |  | MATERIAL NO.<br>SEE PREVIOUS |                    |                                                                                                                                  |                        |                           |  |
|                                                                                                                      |                                        |                                   |             | DRAFT WHERE APPLICABLE<br>MUST REMAIN<br>WITHIN DIMENSIONS |  | SIZE<br>B                    |                    | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX<br>INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION |                        |                           |  |