

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

Part Number:

0753427766

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, 16 Circuits, 1.27µm (50µ") Gold (Au)

Documents:

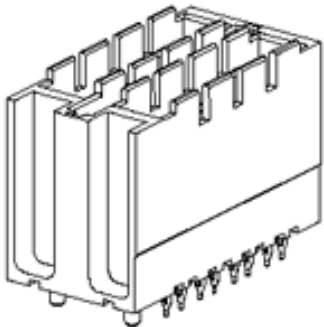
Drawing (PDF)

Product Specification PS-75221-999 (PDF)

RoHS Certificate of Compliance (PDF)

General	
Product Family	Backplane Connectors
Series	75342
Application	Backplane
Application Tooling Documents	Tooling Manual
Comments	Blade Length A 7.50mm, B 7.50mm, C 6.00mm, D 6.00mm
Component Type	Power Header
Overview	gbx_backplane_connector_system
Product Name	GbX®
Style	N/A

Physical	
Circuits (Loaded)	16
Circuits (maximum)	16
Circuits Detail	Rows A, B, C, & D
Color - Resin	Gray
Durability (mating cycles max)	200
First Mate / Last Break	Yes
Guide to Mating Part	No
Keying to Mating Part	None
Material - Metal	High Performance Alloy (HPA)
Material - Plating Mating	Gold
Material - Plating Termination	Tin-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)	0.090 In
PC Tail Length (mm)	2.28 mm
PCB Locator	Yes
PCB Retention	Yes
PCB Thickness Recommended (in)	0.063 In
PCB Thickness Recommended (mm)	1.60 mm
Packaging Type	Tube
Pitch - Mating Interface (in)	0.177 In
Pitch - Mating Interface (mm)	4.50 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



Series

image - Reference only

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
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

75342Series

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 2 - Up Power Module	0622022060
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)	22
Shielded	No
Voltage - Maximum	120V AC (RMS)/DC

Material Info

Reference - Drawing Numbers

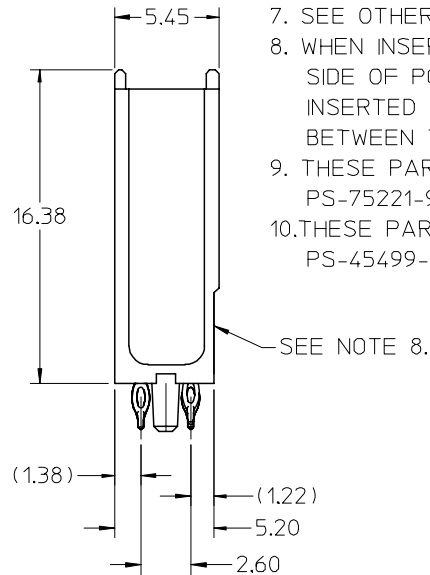
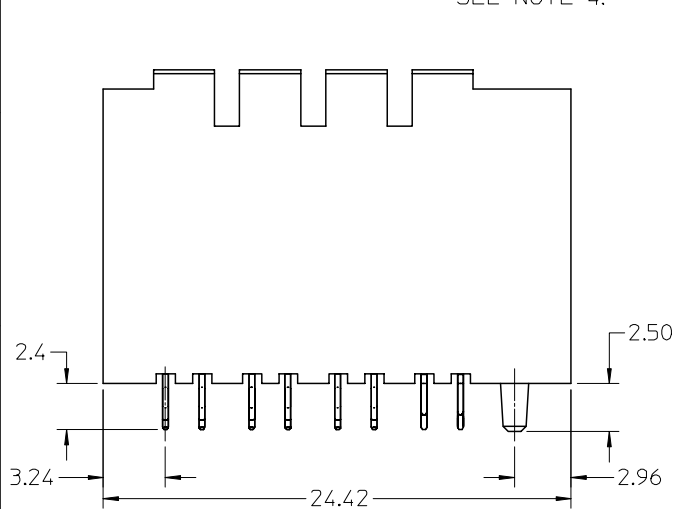
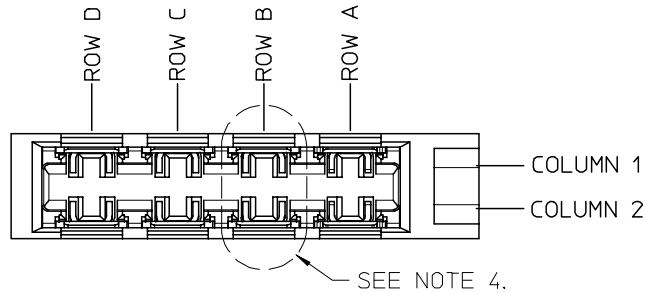
Product Specification	PS-75221-999
Sales Drawing	SD-75341-001

GbX is a registered trademark of Amphenol Corporation.

This document was generated on 05/14/2010

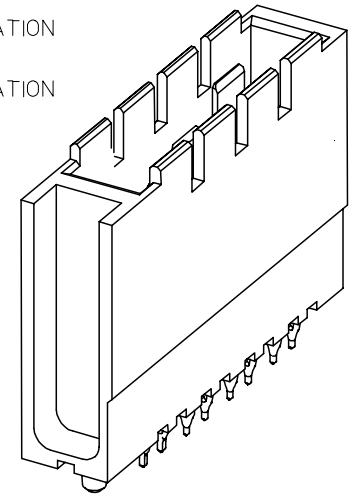
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10 9 8 7 6 5 4 3 2 1



NOTES:

1. MATERIALS: HOUSING - LIQUID CRYSTAL POLYMER (LCP), UL 94V-0, GRAY; CONTACT - COPPER ALLOY.
2. FINISH: SELECT GOLD IN CONTACT AREA, 50 μ " 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 EC NO: UCP2008-0426 DRAWN: STEWART 2007/08/29 CHKD: 2007/08/30 APPR: J.B. INGHAM 2007/08/31	QUALITY SYMBOLS ▽=0 ▽=0	DESCRIPTION	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE 4:1	DESIGN UNITS METRIC	 THIRD ANGLE PROJECTION	
					DRAWN BY	DATE	TITLE GBX 4 PAIR BACKPLANE POWER SALES ASSEMBLY			
			4 PLACES	± --- ± ---	ELO	2006/04/06				
			3 PLACES	± --- ± ---	CHECKED BY	DATE				
			2 PLACES	± --- ± ---	ELO	2005/02/22				
			1 PLACE	± --- ± ---	APPROVED BY	DATE	MOLEX MOLEX INCORPORATED			
ANGULAR ± ---°		CUNNINGHAM	2005/02/23							
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		MATERIAL NO.		DOCUMENT NO.		SHEET NO.				
		SEE CHART		SD-75341-001		1 OF 4				
REV	C		SIZE 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

F

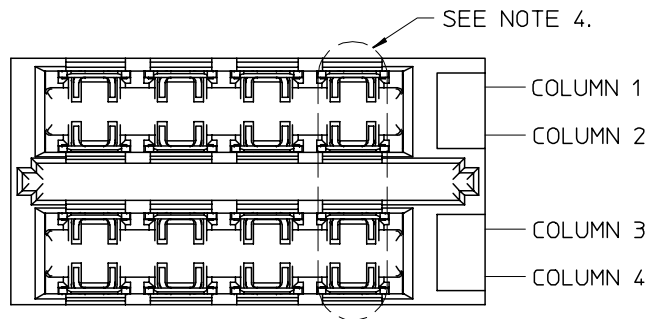
E

D

C

B

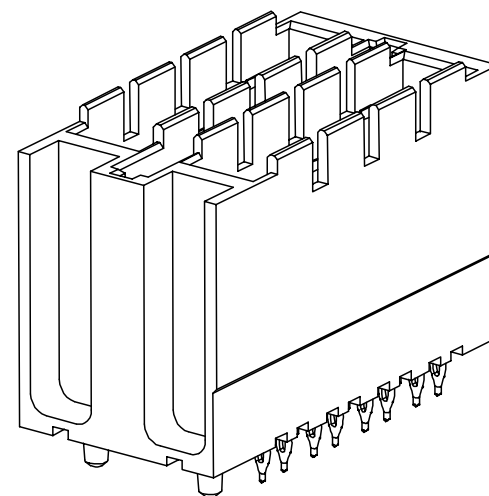
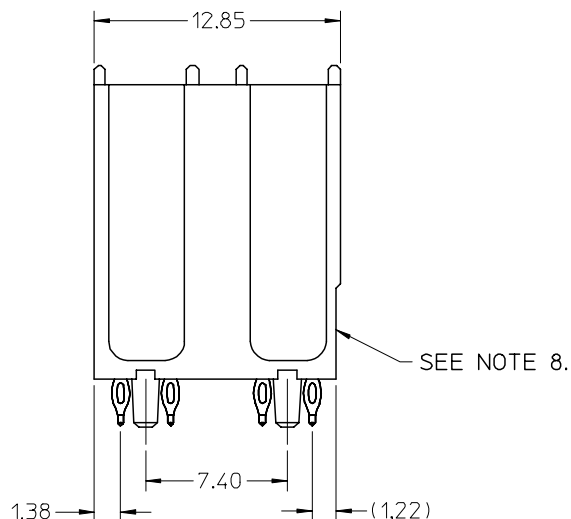
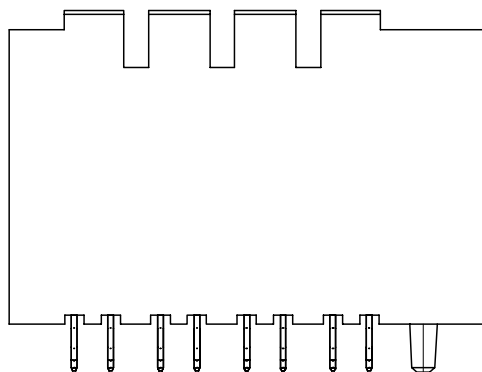
A



2-UP ASSEMBLY PART NUMBER

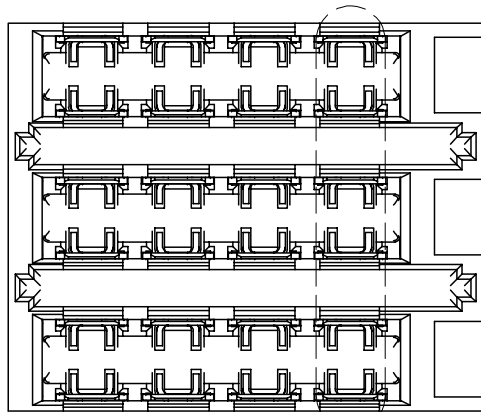
7 5 3 4 2 - A B C D

- 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



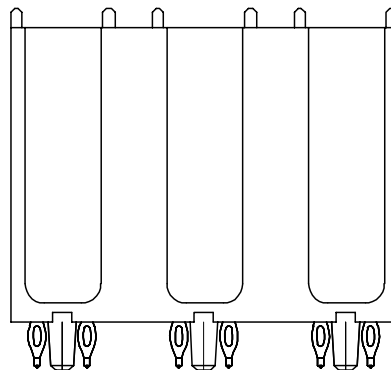
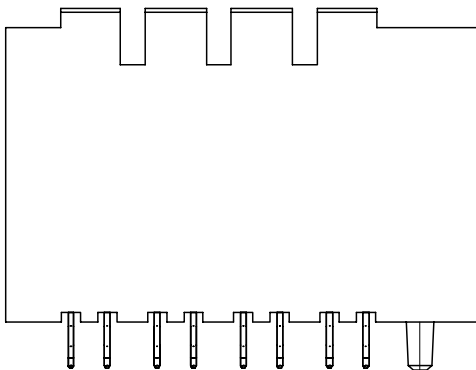
SEE SHEET 1 FOR ADDITIONAL INFORMATION
CHECK WITH PRODUCT MANAGER FOR AVAILABILITY

SEE SHEET ONE EC NO: UCP2008-0426 DRAWN: C STEWART 2007/08/29 CHKD: J. B. INGHAM 2007/08/30 APPR: J. B. INGHAM 2007/08/31	DESCRIPTION	QUALITY SYMBOLS ▽=0 ▽=0	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE 4:1	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION		
				mm	INCH	DRAWN BY ELO	DATE 2006/04/06	GBX 4 PAIR BACKPLANE POWER SALES ASSEMBLY			
			4 PLACES	± ---	± ---	CHECKED BY ELO	DATE 2005/02/22				
			3 PLACES	± ---	± ---	APPROVED BY CUNNINGHAM	DATE 2005/02/23	MOLEX INCORPORATED			
			2 PLACES	± ---	± ---	MATERIAL NO.	DOCUMENT NO.				
			1 PLACE	± ---	± ---	SHEET NO. 2 OF 4					
			ANGULAR ± ---°		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SEE CHART		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION		
					SIZE B						



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 -

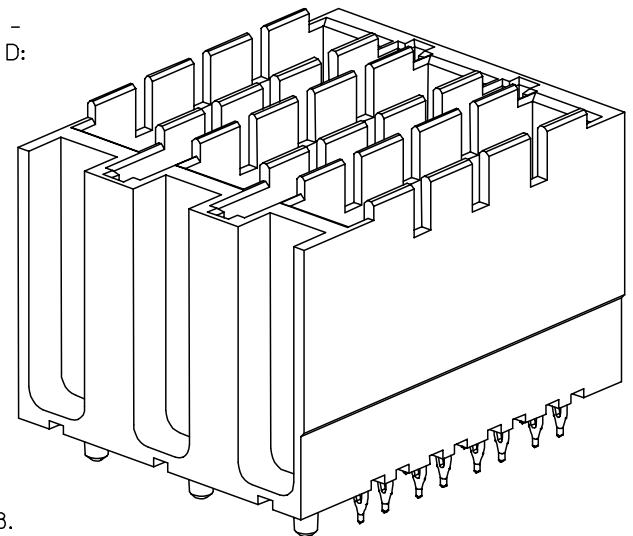
FOR EACH ROW LOCATION A, B, C, D:

0 = VOID

2 = 4.5 mm WIPE

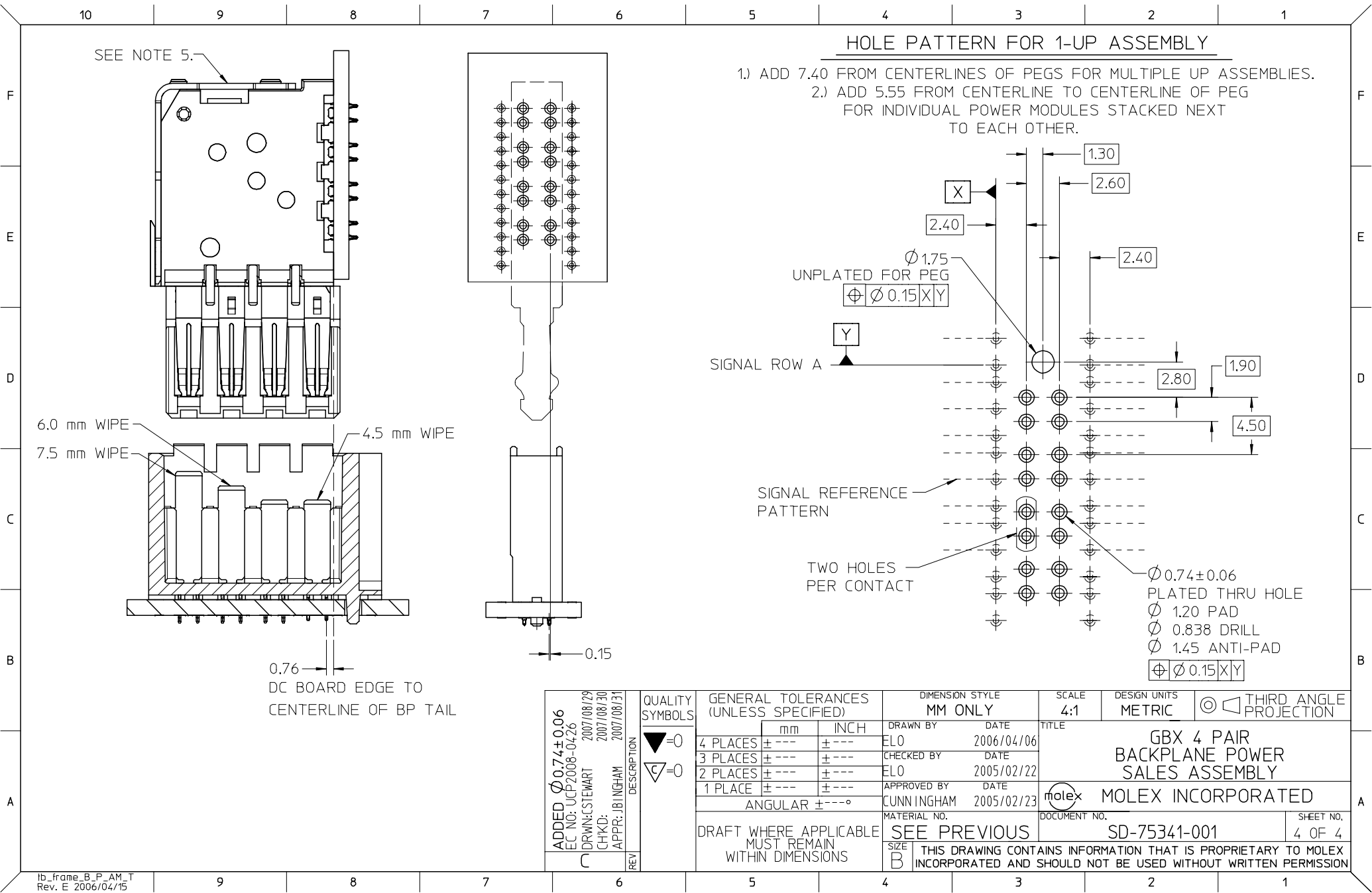
3 = 6.0 mm WIPE

5 = 7.5 mm WIPE



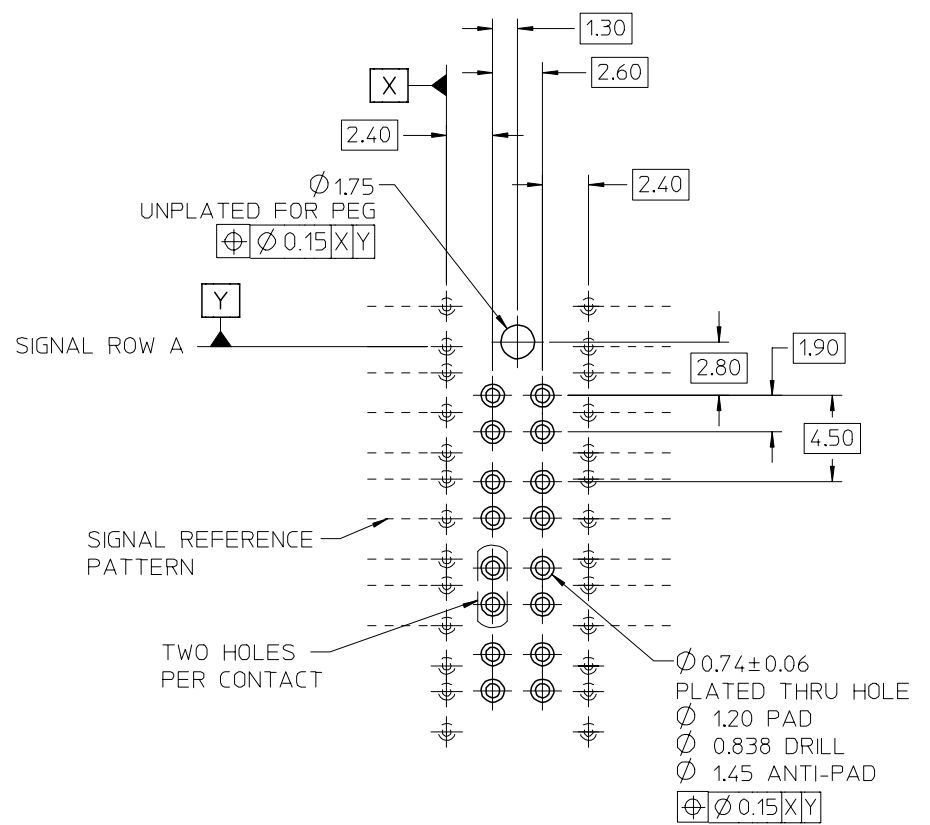
SEE SHEET 1 FOR ADDITIONAL INFORMATION
CHECK WITH PRODUCT MANAGER FOR AVAILABILITY

SEE SHEET ONE EC NO: UCP2008-0426 DRW: J. STEWART 2007/08/29 CHKD: J. STEWART 2007/08/30 APPR: J. INGHAM 2007/08/31	QUALITY SYMBOLS ▽=0 ▽=0	DESCRIPTION	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE 4:1	DESIGN UNITS METRIC	 THIRD ANGLE PROJECTION			
				mm	INCH	DRAWN BY ELO	DATE 2006/04/06	TITLE GBX 4 PAIR BACKPLANE POWER 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. 3 OF 4		
			DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SEE CHART		SD-75341-001					
			REV	C		SIZE B	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION					



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 $\varnothing 0.74 \pm 0.06$ EC NO: UCP2008-0426 DRAWN: STEWART CHKD: APPR: J. BINGHAM	2007/08/29 2007/08/30 2007/08/31	QUALITY SYMBOLS ▽=0 ▽=0	DESCRIPTION	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE 4:1	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION		
						DRAWN BY	DATE	TITLE GBX 4 PAIR BACKPLANE POWER SALES ASSEMBLY				
						CHECKED BY	DATE					
						APPROVED BY	DATE					
				1 PLACE ± --- ± ---		CUNNINGHAM	2005/02/23	MOLEX MOLEX INCORPORATED				
				ANGULAR ± ---°		MATERIAL NO.		DOCUMENT NO.				
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SEE PREVIOUS					SD-75341-001					
		SIZE B					THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION					
REV		SHEET NO. 4 OF 4										