

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

Part Number:

0753414777

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)

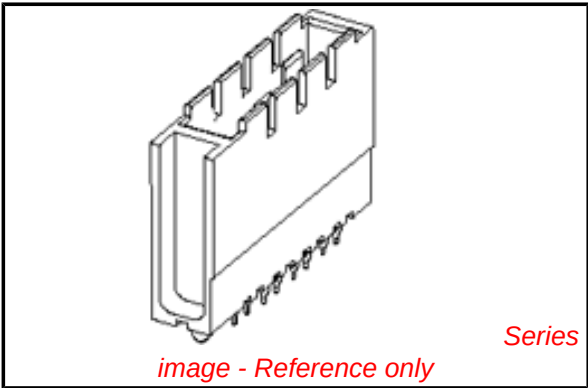
Product Specification PS-75221-999 (PDF)

RoHS Certificate of Compliance (PDF)

Agency Certification

UL	E29179
General	
Product Family	Backplane Connectors
Series	75341
Application	Backplane
Application Tooling Documents	Tooling Manual
Comments	Blade Length A 4.50mm, B 7.50mm, C 7.4mm, 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

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

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

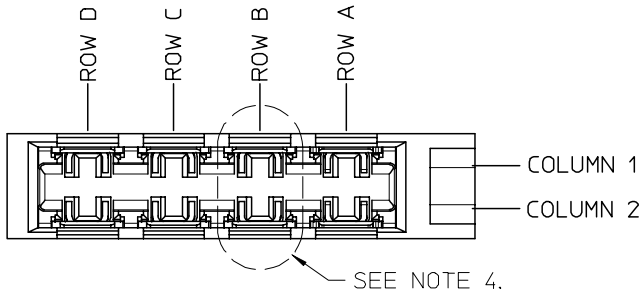
Reference - Drawing Numbers

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

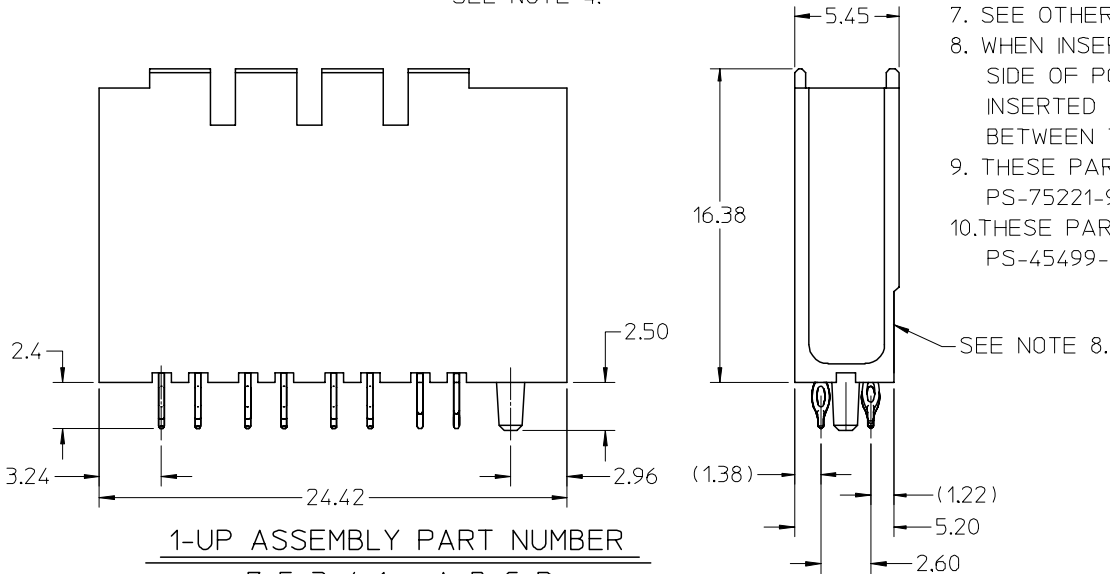
GbX is a registered trademark of Amphenol Corporation.

This document was generated on 05/13/2010
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10 9 8 7 6 5 4 3 2 1

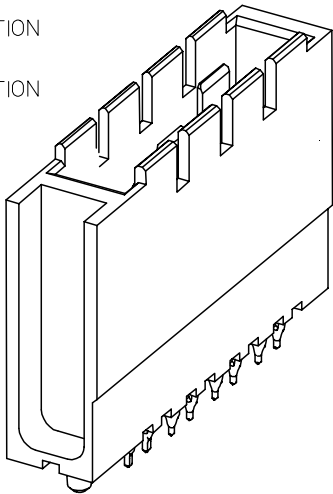


- NOTES:
1. MATERIALS: HOUSING - LIQUID CRYSTAL POLYMER (LCP), UL 94V-0, GRAY; CONTACT - COPPER ALLOY.
 2. FINISH: SELECT GOLD IN CONTACT AREA, 50 μ " THICK; TIN/LEAD OR MATTE TIN IN COMPLIANT AREA.
 3. PACKAGING PER PK-70873-562.
 4. CONTACTS IN EACH ROW HAVE THE SAME WIPE LENGTH.
 5. BACKPLANE ASSEMBLY 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

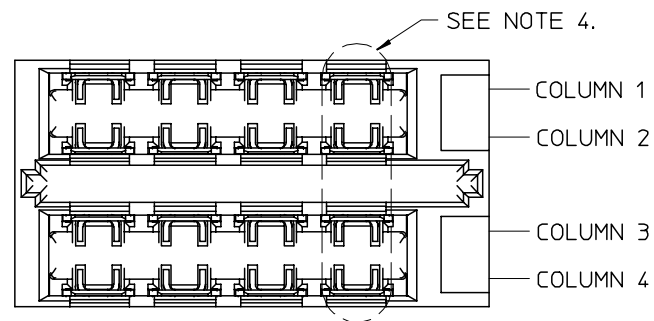
7 5 3 4 1 - A B C D
 - TIN/LEAD PLATED PRODUCT -
 FOR EACH ROW LOCATION A, B, C, D:
 0 = VOID
 4 = 4.5 mm WIPE
 6 = 6.0 mm WIPE
 7 = 7.5 mm WIPE
 - LEAD-FREE PLATED PRODUCT -
 FOR EACH ROW LOCATION A, B, C, D:
 0 = VOID
 2 = 4.5 mm WIPE
 3 = 6.0 mm WIPE
 5 = 7.5 mm WIPE



ADDED NOTES 9 & 10 EC NO: UCP2008-0426 DRWN: C STEWART 2007/08/29 CHKD: 2007/08/30 APPR: J B INGHAM 2007/08/31				DESCRIPTION	QUALITY SYMBOLS	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE 4:1	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION	
▽=0 ▽=0		mm INCH			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									
CUNNINGHAM 2005/02/23		MATERIAL NO.										DOCUMENT NO.	
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SIZE B		SEE CHART		SD-75341-001 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

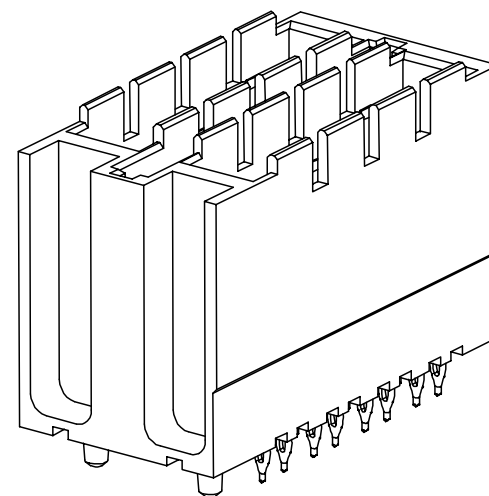
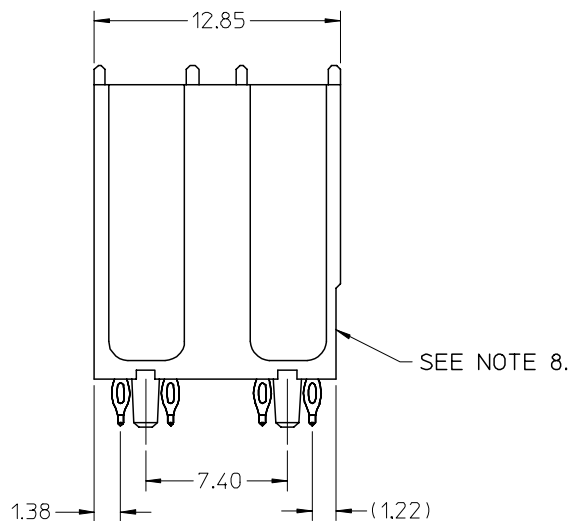
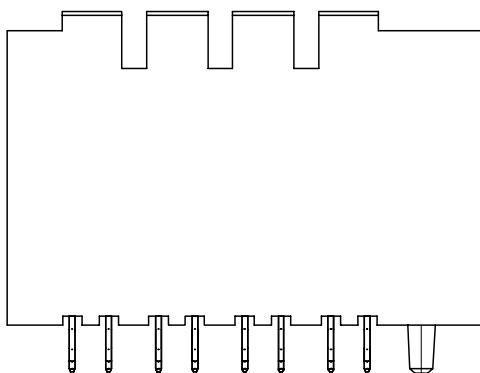
7 5 3 4 2 - A B C D

- 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:

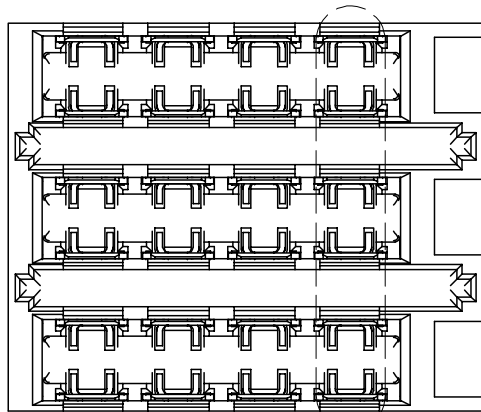
0 = VOID
2 = 4.5 mm WIPE
3 = 6.0 mm WIPE
5 = 7.5 mm WIPE



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

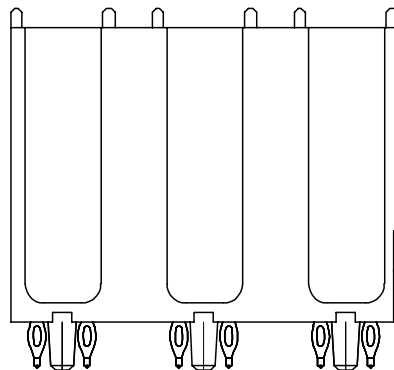
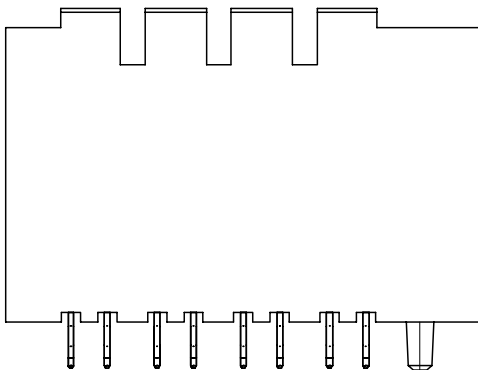
SEE SHEET ONE EC NO: UCP2008-0426 DRAWN: STEWART 2007/08/29 CHKD: 2007/08/30 APPR: J. B. INGHAM 2007/08/31	QUALITY SYMBOLS ▽=0 ▽=0	DESCRIPTION	GENERAL TOLERANCES (UNLESS SPECIFIED)				DIMENSION STYLE MM ONLY		SCALE 4:1	DESIGN UNITS METRIC	 THIRD ANGLE PROJECTION	
			mm		INCH		DRAWN BY ELO	DATE 2006/04/06	GBX 4 PAIR BACKPLANE POWER SALES ASSEMBLY MOLEX INCORPORATED			
			4 PLACES	± ---	± ---	CHECKED BY ELO	DATE 2005/02/22					
			3 PLACES	± ---	± ---							
			2 PLACES	± ---	± ---							
			1 PLACE	± ---	± ---							
			ANGULAR ± ---°				APPROVED BY CUNNINGHAM	DATE 2005/02/23	DOCUMENT NO.			SHEET NO. 2 OF 4
			DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS				MATERIAL NO.		SD-75341-001			
							SEE CHART					
							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



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

SEE NOTE 4.



14.80

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 -

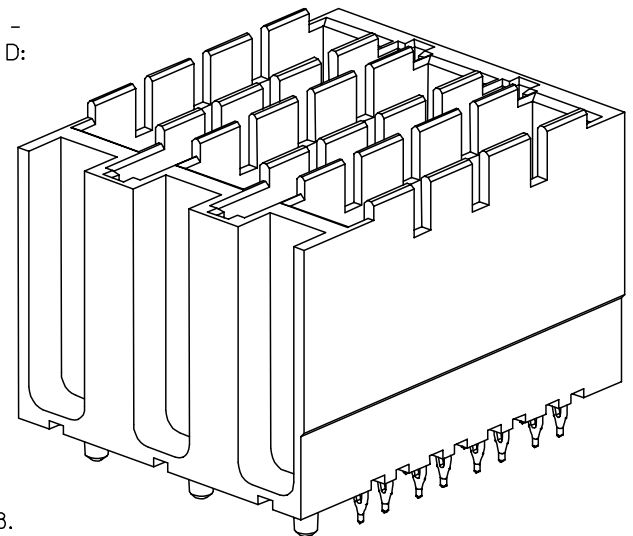
FOR EACH ROW LOCATION A, B, C, D:

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	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	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.						
			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			SHEET NO. 3 OF 4

10 9 8 7 6 5 4 3 2 1

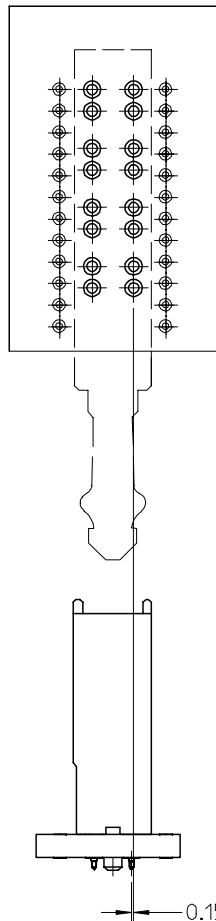
F
E
D
C
B
A

SEE NOTE 5.

6.0 mm WIPE
7.5 mm WIPE

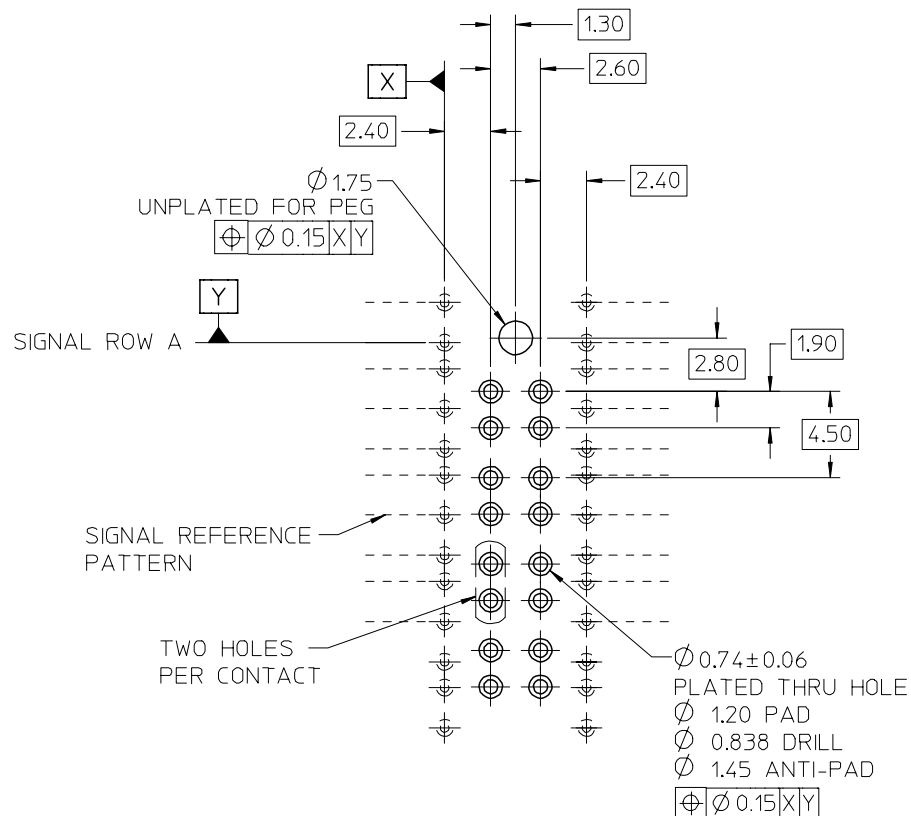
4.5 mm WIPE

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 $\varnothing 0.74 \pm 0.06$ EC NO: UCP2008-0426 DRAWN: STEWART CHKD: APPR: J. BINGHAM	2007/08/29 2007/08/30 2007/08/31	DESCRIPTION REV	QUALITY SYMBOLS $\nabla=0$ $\nabla=0$	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	TITLE GBX 4 PAIR BACKPLANE POWER SALES ASSEMBLY MOLEX MOLEX INCORPORATED SD-75341-001					
				4 PLACES	$\pm$ ---	$\pm$ ---	CHECKED BY ELO	DATE 2005/02/22						
				3 PLACES	$\pm$ ---	$\pm$ ---	APPROVED BY CUNNINGHAM	DATE 2005/02/23						
				2 PLACES	$\pm$ ---	$\pm$ ---	MATERIAL NO. SEE PREVIOUS		DOCUMENT NO.		SHEET NO. 4 OF 4			
				1 PLACE	$\pm$ ---	$\pm$ ---	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION					
								ANGULAR $\pm$ ---°		SIZE B				