

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

Part Number:

0753310444

Status:

Active

Overview:

gbx_backplane_connector_system

Description:

1.85mm by 1.85mm (.073 by .073") Pitch 3-Pair GbX® Backplane Connector System, Power Module, 6 Circuits,1.27µm (50µ") Gold (Au)

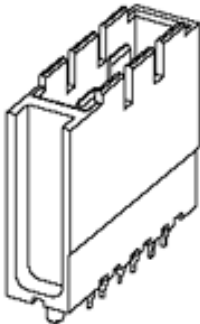
Documents:

Drawing (PDF)

Product Specification PS-75221-999 (PDF)

RoHS Certificate of Compliance (PDF)

General	
Product Family	Backplane Connectors
Series	75331
Application	Backplane
Application Tooling Documents	Tooling Manual
Comments	Blade Length A 4.50mm, B 4.50mm, C 4.50mm
Component Type	Power Header
Overview	gbx_backplane_connector_system
Product Name	GbX®
Style	N/A
Physical	
Circuits (Loaded)	6
Circuits (maximum)	6
Circuits Detail	Rows A, B & C
Color - Resin	Gray (Dark)
Durability (mating cycles max)	200
First Mate / Last Break	No
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	3
Number of Rows	3
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)	0.000 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
Stackable	No



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

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

75331Series

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 #
GbX® Single Pin Repair Tool	0622022090
GbX® Shield Removal Tool	0622022100
GbX® 3 Pair 1-Up Power Module	0622022580

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
Shield Type	N/A
Shielded	No
Voltage - Maximum	120V AC (RMS)/DC

Material Info

Reference - Drawing Numbers

Packaging Specification	PK-70873-571
Product Specification	PS-75221-999
Sales Drawing	SD-75331-001

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



1-UP ASSEMBLY PART NUMBER

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

NOTES:

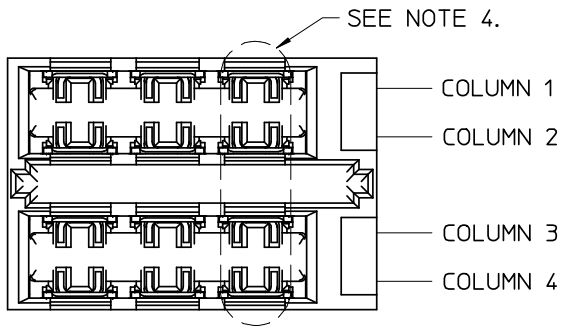
1. MATERIALS: HOUSING - LIQUID CRYSTAL POLYMER (LCP), UL 94V-0, GRAY; CONTACT - COPPER ALLOY.
2. FINISH: SELECT GOLD IN CONTACT AREA, 50 μ " THICK, TIN/LEAD OR MATTE TIN IN COMPLIANT AREA.
3. PACKAGING PER PK-70873-571.
4. CONTACTS IN EACH ROW HAVE THE SAME WIPE LENGTH.
5. BACKPLANE ASSEMBLY MATES WITH DAUGHTERCARD POWER MODULE 75292-3***.
6. PART SHOWN IS 75331-0467.
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.



SPEC FILE CORRECTED EC NO: UCP2008-2380 TIDRMNDVARA 2008/03/27 CHKD:JBINGHAM 2008/03/27 APPR:JBINGHAM 2008/03/31	QUALITY SYMBOLS =0 =0	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE 4:1	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION			
		4 PLACES 3 PLACES 2 PLACES 1 PLACE	mm INCH	DRAWN BY ELO	DATE 2005/02/18	TITLE GBX 3 PAIR BACKPLANE POWER SALES ASSEMBLY					
				CHECKED BY ELO	DATE 2005/02/22						
				APPROVED BY CUNNINGHAM	DATE 2005/02/23	MATERIAL NO. MOLEX INCORPORATED					
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		ANGULAR $\pm$ ---		SEE CHART		DOCUMENT NO. SD-75331-001		SHEET NO. 1 OF 4			
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



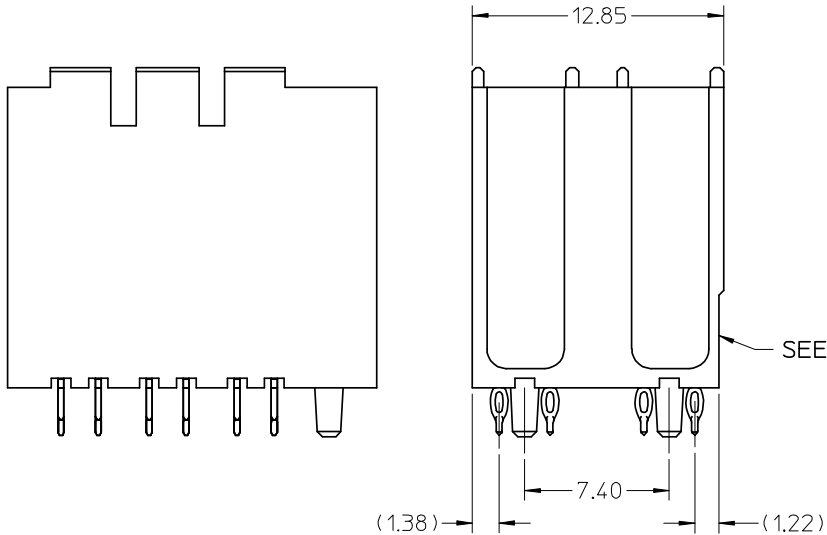
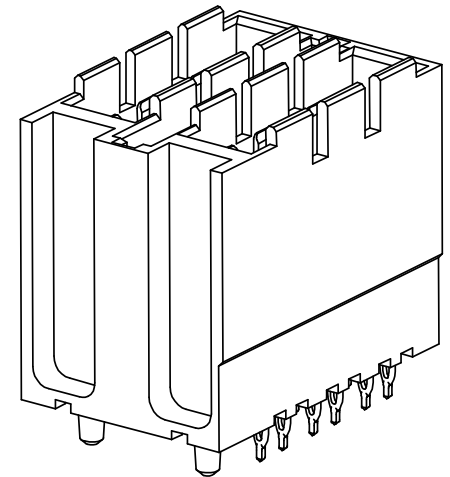
2-UP ASSEMBLY PART NUMBER

7 5 3 3 2 - 0 A B C

- TIN/LEAD PLATED PRODUCT -
FOR EACH ROW LOCATION A, B, C:
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:
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: UCP2008-2380 TDRW: DVARVARA 2008/03/27 CHKD: J BINGHAM 2008/03/27 APPR: J BINGHAM 2008/03/31	QUALITY SYMBOLS ▽=0 ▽=0	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY	SCALE 4:1	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION						
				DRAWN BY ELO	DATE 2005/02/18	TITLE GBX 3 PAIR BACKPLANE POWER SALES ASSEMBLY							
				CHECKED BY ELO	DATE 2005/02/22								
				APPROVED BY CUNNINGHAM	DATE 2005/02/23								
REV	DESCRIPTION	4 PLACES	± ---	± ---	MATERIAL NO. SEE CHART		DOCUMENT NO. SD-75331-001						
		3 PLACES	± ---	± ---									
		2 PLACES	± ---	± ---									
		1 PLACE	± ---	± ---									
		ANGULAR ± ---°											
		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS											
		SIZE B		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION									
						MOLEX INCORPORATED		SHEET NO. 2 OF 4					

9 8 7 6 5 4 3 2 1



SEE NOTE 4.

3-UP ASSEMBLY PART NUMBER

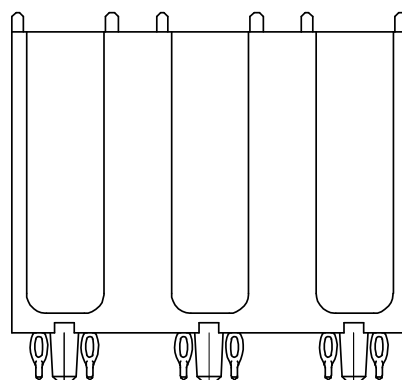
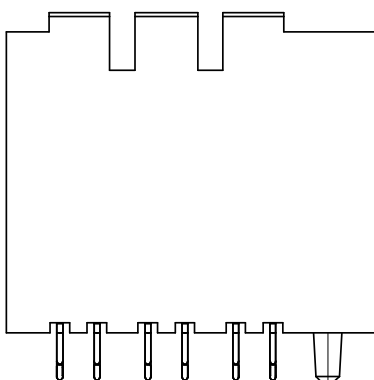
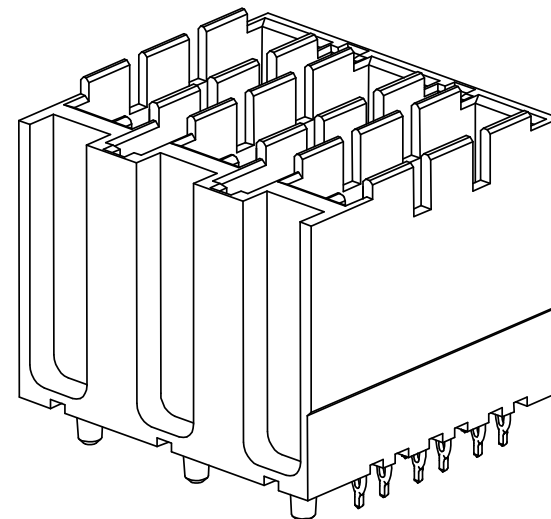
7 5 3 3 3 - 0 A B C

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FOR EACH ROW LOCATION A, B, C:

0 = VOID
4 = 4.5 mm WIPE
6 = 6.0 mm WIPE
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- LEAD-FREE PLATED PRODUCT -
FOR EACH ROW LOCATION A, B, C:

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



SEE NOTE 8.

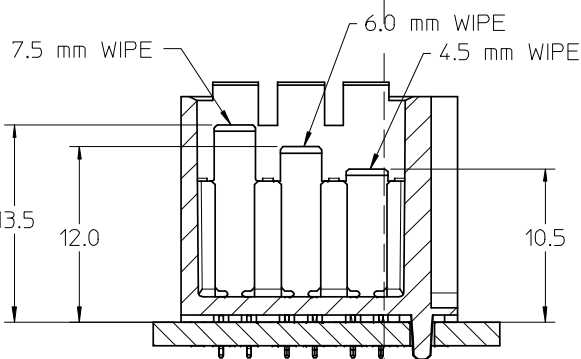
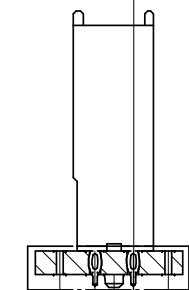
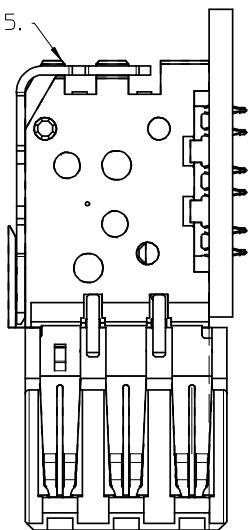
14.80

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

SEE SHEET ONE EC NO: UCP2008-2380 TIDRWD:VARVARA 2008/03/27 CHKD:JB INGHAM 2008/03/27 APPR:JB INGHAM 2008/03/31	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	DATE	TITLE GBX 3 PAIR BACKPLANE POWER SALES ASSEMBLY				
			4 PLACES	± ---	± ---	ELO	2005/02/18					
			3 PLACES	± ---	± ---	CHECKED BY	DATE	MOLEX MOLEX INCORPORATED				
			2 PLACES	± ---	± ---	ELO	2005/02/22					
			1 PLACE	± ---	± ---	APPROVED BY	DATE	DOCUMENT NO.				
			ANGULAR ± ---°		CUNNINGHAM	2005/02/23						
			DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		MATERIAL NO.		SHEET NO.					
					SEE CHART		SD-75331-001					
					SIZE 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

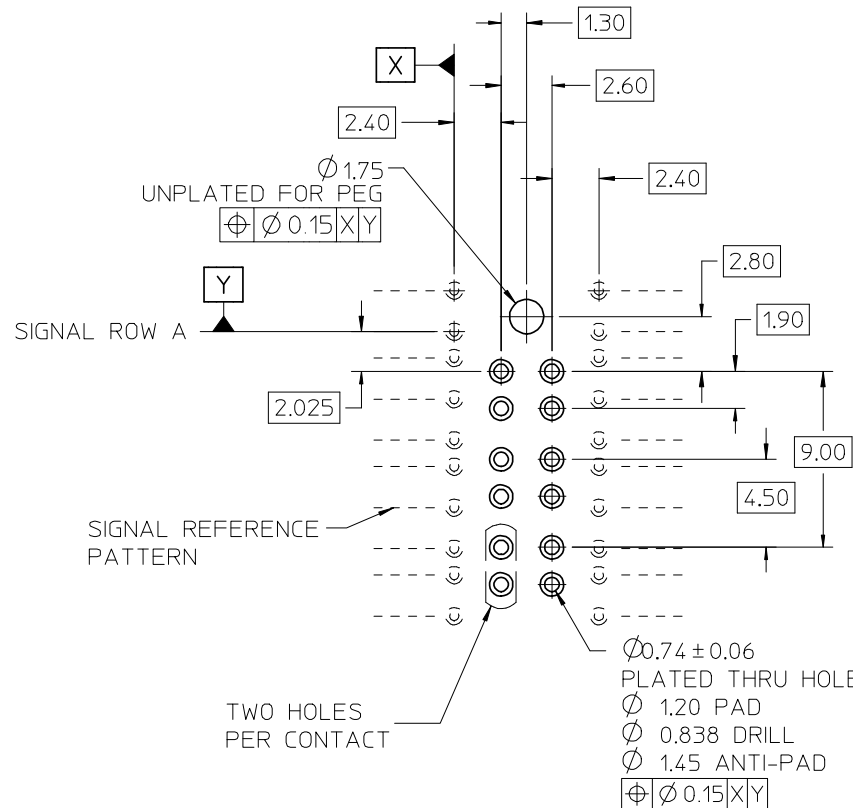
SEE NOTE 5.



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.



SEE SHEET ONE EC NO: UCP2008-2380 TIDRWN: DVARVARA 2008/03/27 CHKD: JB INGHAM 2008/03/27 APPR: JB INGHAM 2008/03/31	QUALITY SYMBOLS ▽=0 ▽=0	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE 4:1	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION		
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			± ---	± ---	ELO	2005/02/18				
			± ---	± ---	CHECKED BY	DATE				
			± ---	± ---	ELO	2005/02/22				
ANGULAR ± ---°		APPROVED BY		DATE	MOLEX MOLEX INCORPORATED					
		CUNNINGHAM		2005/02/23						
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS				MATERIAL NO. SEE PREVIOUS		DOCUMENT NO. SD-75331-001			SHEET NO. 4 OF 4	
				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