

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

Part Number: [0753310664](#)
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 \(PDF\)](#) [RoHS Certificate of Compliance \(PDF\)](#)
[Product Specification PS-75221-999 \(PDF\)](#)

Agency Certification

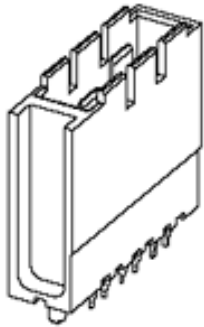
UL E29179

General

Product Family Backplane Connectors
Series [75331](#)
Application Backplane
Application Tooling Documents Tooling Manual
Comments Blade Length A 6.00mm, B 6.00mm, C 4.00mm
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 Yes
Flammability 94V-0
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



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

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	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:

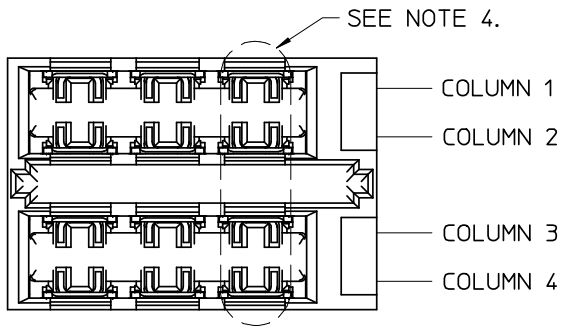
1. MATERIALS: HOUSING - LIQUID CRYSTAL POLYMER (LCP), UL 94V-0, GRAY; CONTACT - COPPER ALLOY.
2. FINISH: SELECT GOLD IN CONTACT AREA, 50 μ " THICK, TIN/LEAD OR MATTE TIN IN COMPLIANT AREA.
3. PACKAGING PER PK-70873-571.
4. CONTACTS IN EACH ROW HAVE THE SAME WIPE LENGTH.
5. BACKPLANE ASSEMBLY MATES WITH 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 DRAWN:ADVARA 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	GBX 3 PAIR BACKPLANE POWER SALES ASSEMBLY MOLEX INCORPORATED				
			4 PLACES	± ---	± ---	ELO	2005/02/18					
			3 PLACES	± ---	± ---	CHECKED BY	DATE					
			2 PLACES	± ---	± ---	ELO	2005/02/22					
			1 PLACE	± ---	± ---	APPROVED BY	DATE	MOLEX INCORPORATED				
			ANGULAR ± ---°			CUNNINGHAM	2005/02/23					
			DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS			MATERIAL NO.		DOCUMENT NO.		SHEET NO.		
						SEE CHART		SD-75331-001		1 OF 4		
						SIZE B		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION				

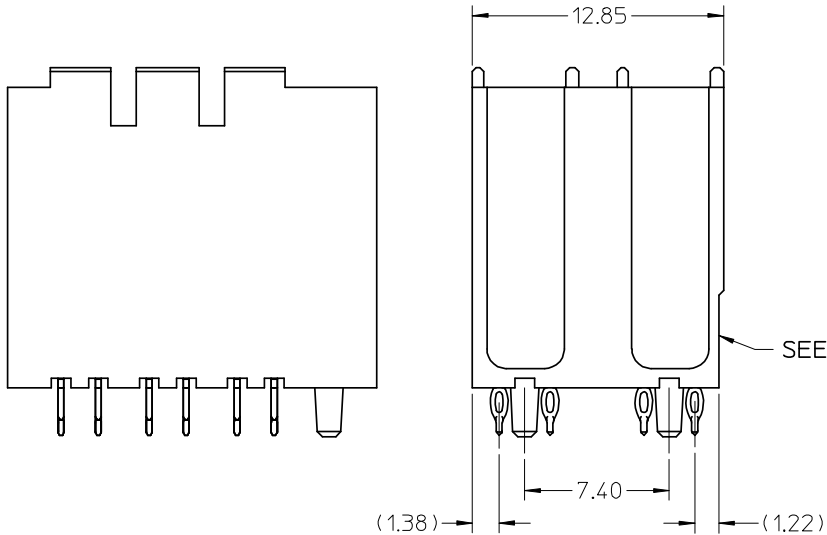
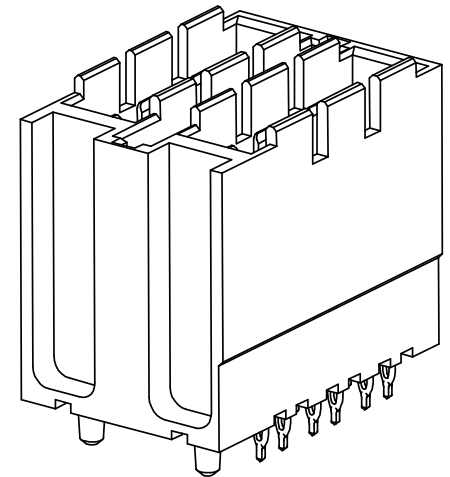
9 8 7 6 5 4 3 2 1

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



SEE NOTE 4.

3-UP ASSEMBLY PART NUMBER

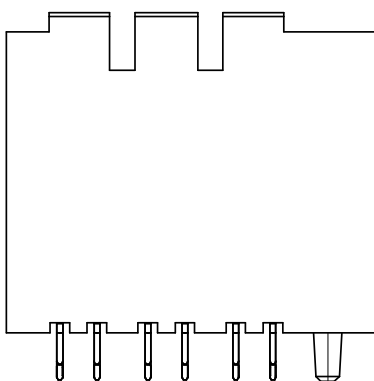
7 5 3 3 3 - 0 A B C

- 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
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5 = 7.5 mm WIPE



SEE NOTE 8.

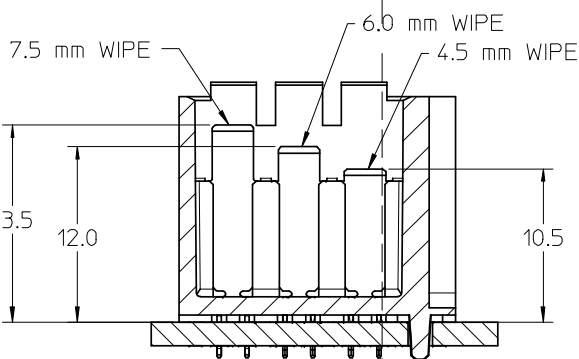
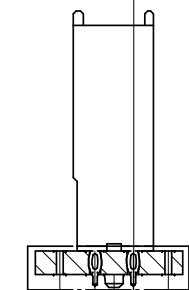
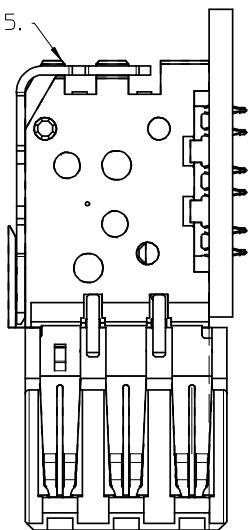
14.80

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			
				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						MOLEX MOLEX INCORPORATED
				ANGULAR ±---°		MATERIAL NO.		DOCUMENT NO.		SHEET NO.	
				DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SEE PREVIOUS		SD-75331-001		4 OF 4	
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