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Part Number:

0758614104

Status:

Active

Overview:

gbx_backplane_connector_system

Description:

1.85mm by 1.85mm (.073" by .073") Pitch 2-Pair GbX® Backplane L-Series Connector System, Right Guide Header, 50 Circuits, Gold (Au) 0.76µm (30µ"), Pin Length 4.55mm (.179")

Documents:

[Drawing \(PDF\)](#)

[RoHS Certificate of Compliance \(PDF\)](#)

[Product Specification PS-75221-999 \(PDF\)](#)

General	
Product Family	Backplane Connectors
Series	75861
Application	Backplane
Application Tooling Documents	Tooling Manual
Comments	Left Guide Header, No Keying Postion
Component Type	PCB Header
Overview	gbx_backplane_connector_system
Product Name	GbX®
Style	N/A

Physical	
Circuits (Loaded)	50
Circuits (maximum)	50
Color - Resin	Gray (Dark)
Durability (mating cycles max)	200
First Mate / Last Break	No
Guide to Mating Part	Yes
Keying to Mating Part	None
Material - Metal	High Performance Alloy (HPA), Stainless Steel
Material - Plating Mating	Gold
Material - Plating Termination	Tin-Lead
Material - Resin	High Temperature Thermoplastic
Number of Columns	10
Number of Pairs	2
Number of Rows	5
Orientation	Vertical
PC Tail Length (in)	0.087 In
PC Tail Length (mm)	2.20 mm
PCB Locator	No
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)	0.073 In
Pitch - Term. Interface (mm)	1.85 mm
Plating min: Mating (µin)	30
Plating min: Mating (µm)	0.76
Plating min: Termination (µin)	30
Plating min: Termination (µm)	0.76
Polarized to PCB	No
Stackable	No

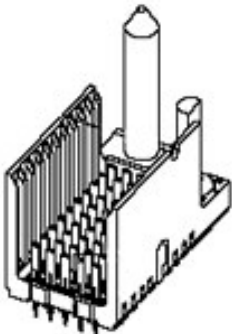


image - Reference only

Series

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

75861Series

Mates With

75676 Gbx Hybrid Daughtercard. 75671 GbX® L-Series 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® 2 Pair by 10 Wide L Series Insertion Module	0622022450

Surface Mount Compatible (SMC)	Yes
Temperature Range - Operating	105°C
Termination Interface: Style	Through Hole - Compliant Pin

Electrical

Current - Maximum per Contact	1A
Data Rate	8.0 Gbps
Real Signals (per 25mm)	67
Shielded	No
Voltage - Maximum	120V AC (RMS)/DC

Material Info

Reference - Drawing Numbers

Packaging Specification	PK-70873-5058
Product Specification	PS-75221-999
Sales Drawing	SD-75861-410

GbX is a registered trademark of Amphenol Corporation.

This document was generated on 05/14/2010

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20 19 18 17 16 15 14 13 12 11 10 9 8 7 6 5 4 3 2 1

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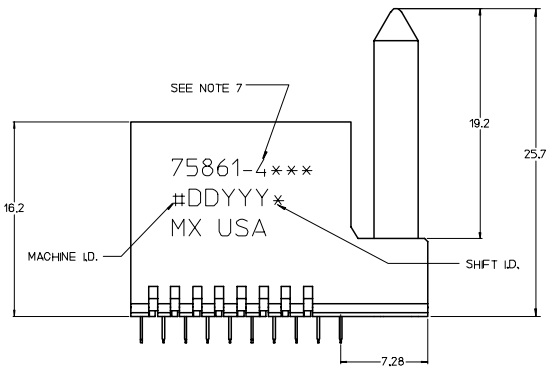
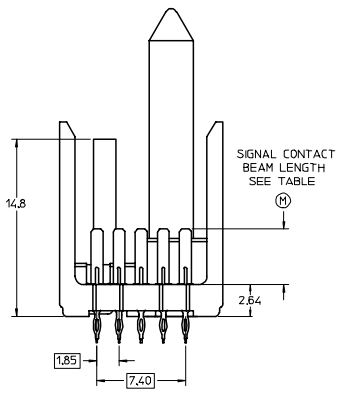
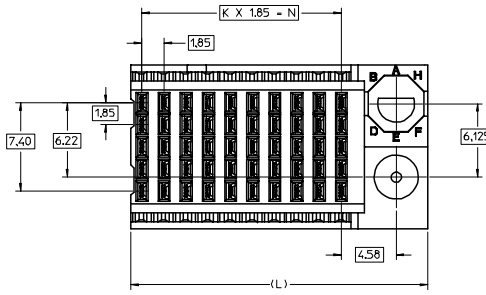
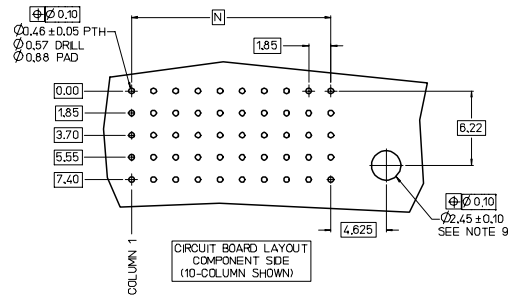
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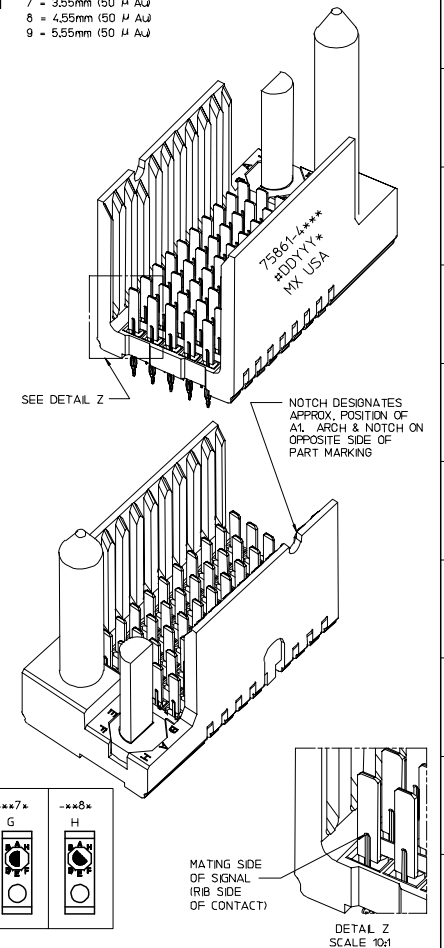
75861-4***

COLUMN
01 = 10
02 = 25
05 = 5

KEYING
POSITION
0 = NONE
1 = A
2 = B
ETC.

SIGNAL LENGTH
DIMENSION "M"
3 = 3.55mm (30 M Au)
4 = 4.55mm (30 M Au)
5 = 5.55mm (30 M Au)
7 = 3.55mm (50 M Au)
8 = 4.55mm (50 M Au)
9 = 5.55mm (50 M Au)

CONFIGURATION			
ASSEMBLY NO.	K	N	(L)
75861-45**	4	7.40	6.53
75861-41**	9	16.65	24.78
75861-42**	24	44.40	52.53



- NOTES:
1. MATERIAL: HOUSING - LIQUID CRYSTAL POLYMER (LCP), GLASS-FILLED, UL 94V-0, GRAY. SIGNAL CONTACTS - HIGH PERFORMANCE COPPER ALLOY.
 2. FINISHES: SELECTIVE GOLD (Au) ON CONTACT AREA, SELECTIVE TIN/LEAD (Sn/Pb) ON TAIL AREA, NICKEL (Ni) OVERALL.
 3. 10-COLUMN ASSEMBLY SHOWN AS REFERENCE. SEE TABLE AND CHART FOR OTHER OPTIONS.
 4. PARTS PACKAGED PER PK-70873-5058.
 5. THIS PART CONFORMS TO MOLEX PRODUCT SPECIFICATION PS-75221-999.
 6. FOR MIXED CONTACT LENGTHS CONSULT MOLEX.
 7. EITHER MARK PART NUMBER AND DATE CODE APPROXIMATELY WHERE SHOWN OR PLACE A LABEL ON THE TUBE.
 8. MINIMUM CIRCUIT BOARD THICKNESS: 1.6.
 9. OPTIONAL HOLE LOCATION FOR GROUNDED GUIDE PIN OR FOR ADDITIONAL GUIDE PIN SUPPORT. FOR GROUNDED GUIDE, HOLE TO BE PLATED, DRILL SIZE Ø2.58, PAD SIZE Ø5.50.
 10. THESE PARTS CONFORM TO MOLEX COSMETIC SPECIFICATION PS-45499-002 CLASS B.

P/N 75861-4)	-xx0*	-xx1*	-xx2*	-xx3*	-xx4*	-xx5*	-xx6*	-xx7*	-xx8*
KEYING PIN ORIENTATION									

REVISED EC NO. UCP2007-2780 DRAWN: JB INGHAM CHKD: CHKCD APPR: SREED REV	QUALITY SYMBOLS ▽=0 ▽=0	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE 5:1	DESIGN UNITS METRIC	 THIRD ANGLE PROJECTION		
				DATE		TITLE				
				DRAWN BY JB INGHAM		2006/02/06			GBX 2-PAIR L-SERIES RIGHT END BACKPLANE SALES ASSEMBLY DRAWING	
				CHECKED BY KMULVEY		2006/02/06			MOLEX INCORPORATED	
				APPROVED BY SREED		2006/02/06			DOCUMENT NO. SD-75861-410	
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				SHEET NO. 1 OF 1		

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