

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

Part Number:

0758610104

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, Open Header, 55 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

Open Header

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

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

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)

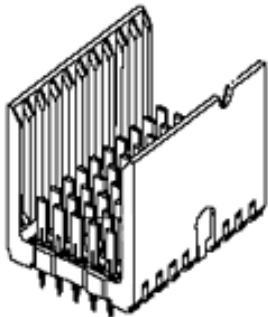
0.76

Polarized to PCB

No

Stackable

No



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
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-75861-010

GbX is a registered trademark of Amphenol Corporation.

This document was generated on 05/14/2010

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13 12 11 10 9 8 7 6 5 4 3 2 1

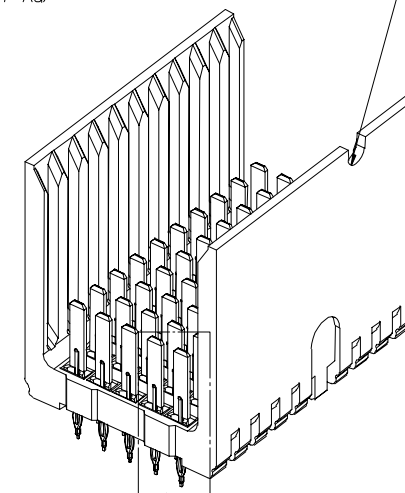
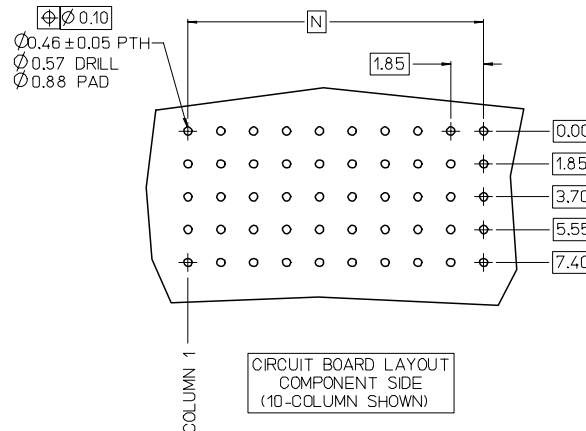
CONFIGURATION			
ASSEMBLY NO.	K	N	(L)
75861-050*	4	7.40	9.10
75861-010*	9	16.65	18.35
75861-020*	24	44.40	46.10

75861-0*0*

COLUMN
05 = 5
01 = 10
02 = 25

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

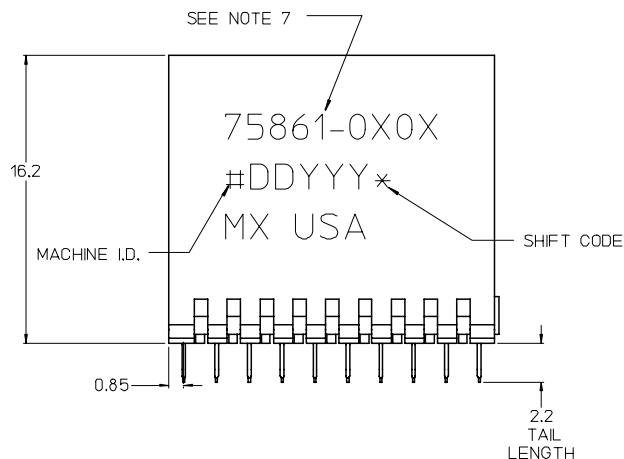
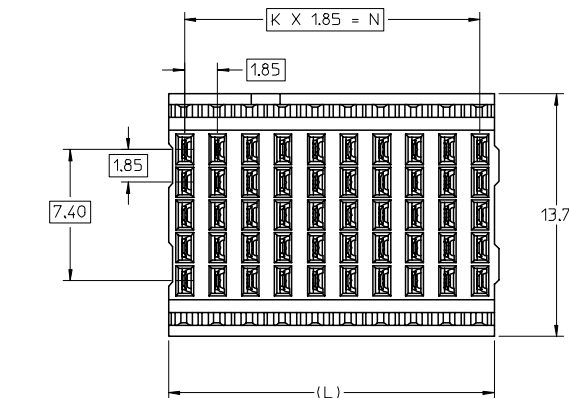
NOTCH DESIGNATES
APPROX. POSITION OF A1.
ARCH & NOTCH ON
OPPOSITE SIDE OF
PART MARKING



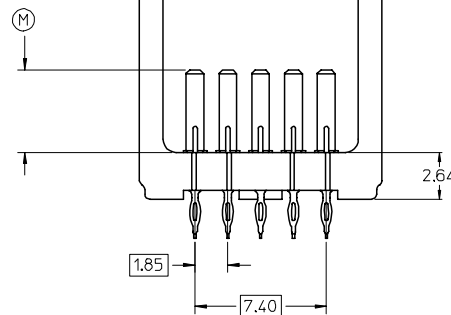
SEE DETAIL Y

MATING SIDE
OF SIGNAL
(RIB SIDE
OF CONTACT)

DETAIL Y
SCALE 10:1



SIGNAL CONTACT
BEAM LENGTH
SEE TABLE



- 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 MATING 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. THESE PARTS CONFORM TO MOLEX COSMETIC SPECIFICATION PS-45499-002 CLASS B.

REVISED (MINOR) EC NO: UCP2008-0890 DRAWN: JB INGHAM CHKD: 2007/11/15 APPR: LAJFXR 2007/11/16	DESCRIPTION	QUALITY SYMBOLS	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE 5:1	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION	
		▽=0	mm	INCH	DRAWN BY	DATE	TITLE GBX 2-PAIR L-SERIES OPEN END BACKPLANE SALES ASSEMBLY DRAWING			
		▽=0	4 PLACES ± --- ± ---	JB INGHAM	2006/02/03					
		3 PLACES ± --- ± ---	CHECKED BY	DATE						
		2 PLACES ± 0.13 ± ---	KMULVEY	2006/02/03						
		1 PLACE ± 0.25 ± ---	APPROVED BY	DATE						
		ANGULAR ± ---°		SPEED	2006/02/03	MOLEX MOLEX INCORPORATED				
		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		MATERIAL NO.	DOCUMENT NO.		SHEET NO.			
		SEE CHART		SD-75861-010	1 OF 1					
		B1	REV	SIZE	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION					