

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

Part Number:

0758612104

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, Left Guide Header, 50 Circuits, Gold (Au) 0.76µm (30µ"), Pin Length 4.55mm (.179")

Documents:

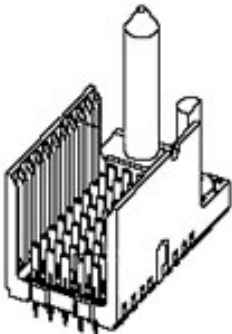
[Drawing \(PDF\)](#)

[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



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

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

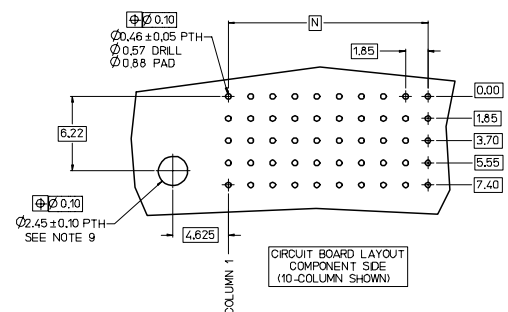
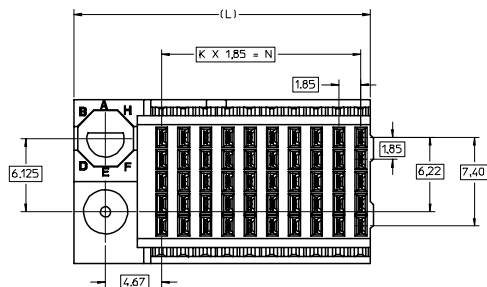
Reference - Drawing Numbers

Packaging Specification	PK-70873-5058
Product Specification	PS-75221-999
Sales Drawing	SD-75861-210

GbX is a registered trademark of Amphenol Corporation.

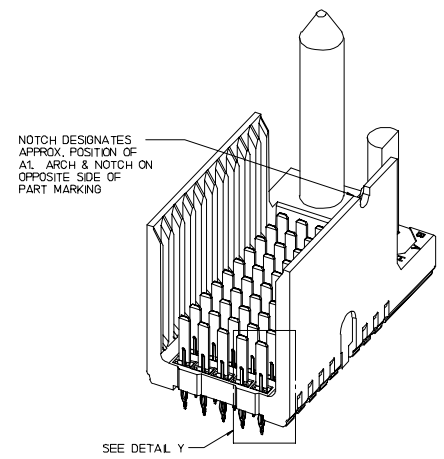
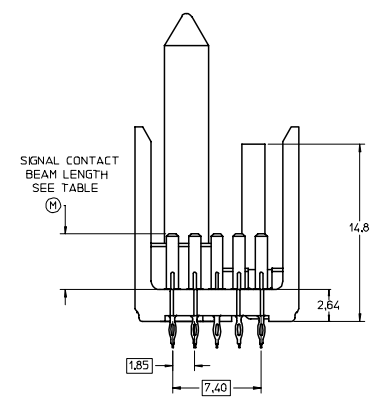
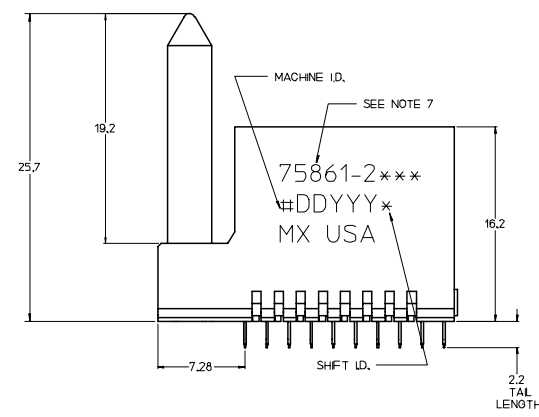
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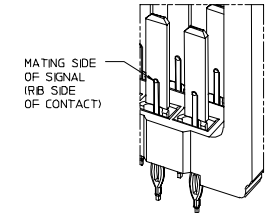


75861-2***
 COLUMN 1
 21 = 10
 22 = 25
 25 = 5
 SIGNAL LENGTH
 DIMENSION "M"
 3 = 3.55mm (30 H Au)
 4 = 4.55mm (30 H Au)
 5 = 5.55mm (30 H Au)
 7 = 3.55mm (50 H Au)
 8 = 4.55mm (50 H Au)
 9 = 5.55mm (50 H Au)
 KEYING
 POSITION
 0 = NONE
 1 = A
 2 = B
 ETC.

CONFIGURATION			
ASSEMBLY NO.	K	N	(L)
75861-25**	4	7.40	15.53
75861-21**	9	16.85	24.78
75861-22**	24	44.40	52.53



P/N	75861-1	75861-2	75861-3	75861-4	75861-5	75861-6	75861-7	75861-8
KEYING PIN ORIENTATION	0	A	B	C	D	E	F	G



- 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 LENGTH 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.

REVISED	EC NO.	DATE	DRAWN BY	CHECKED BY	APPROVED BY	DESCRIPTION	QUALITY SYMBOLS	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE		SCALE	DESIGN UNITS	THERMAL ANGLE PROJECTION	TITLE
								mm	INCH	MM ONLY	DATE				
1	2007/05/02	2007/05/02	JB INGHAM	2006/02/06	2006/02/06	2006/02/06	2006/02/06	4 PLACES ±	±	DATE	2006/02/06	5:1	METRIC	0	GBX 2-PAIR L-SERIES LEFT END BACKPLANE SALES ASSEMBLY DRAWING
2	2007/05/02	2007/05/02	2006/02/06	2006/02/06	2006/02/06	2006/02/06	2006/02/06	3 PLACES ±	±	DATE	2006/02/06	5:1	METRIC	0	MOLEX INCORPORATED
3	2007/05/02	2007/05/02	2006/02/06	2006/02/06	2006/02/06	2006/02/06	2006/02/06	2 PLACES ±	±	DATE	2006/02/06	5:1	METRIC	0	MOLEX INCORPORATED
4	2007/05/02	2007/05/02	2006/02/06	2006/02/06	2006/02/06	2006/02/06	2006/02/06	1 PLACE ±	±	DATE	2006/02/06	5:1	METRIC	0	MOLEX INCORPORATED
5	2007/05/02	2007/05/02	2006/02/06	2006/02/06	2006/02/06	2006/02/06	2006/02/06	ANGULAR ±	±	DATE	2006/02/06	5:1	METRIC	0	MOLEX INCORPORATED
6	2007/05/02	2007/05/02	2006/02/06	2006/02/06	2006/02/06	2006/02/06	2006/02/06	ANGULAR ±	±	DATE	2006/02/06	5:1	METRIC	0	MOLEX INCORPORATED
7	2007/05/02	2007/05/02	2006/02/06	2006/02/06	2006/02/06	2006/02/06	2006/02/06	ANGULAR ±	±	DATE	2006/02/06	5:1	METRIC	0	MOLEX INCORPORATED
8	2007/05/02	2007/05/02	2006/02/06	2006/02/06	2006/02/06	2006/02/06	2006/02/06	ANGULAR ±	±	DATE	2006/02/06	5:1	METRIC	0	MOLEX INCORPORATED
9	2007/05/02	2007/05/02	2006/02/06	2006/02/06	2006/02/06	2006/02/06	2006/02/06	ANGULAR ±	±	DATE	2006/02/06	5:1	METRIC	0	MOLEX INCORPORATED
10	2007/05/02	2007/05/02	2006/02/06	2006/02/06	2006/02/06	2006/02/06	2006/02/06	ANGULAR ±	±	DATE	2006/02/06	5:1	METRIC	0	MOLEX INCORPORATED
11	2007/05/02	2007/05/02	2006/02/06	2006/02/06	2006/02/06	2006/02/06	2006/02/06	ANGULAR ±	±	DATE	2006/02/06	5:1	METRIC	0	MOLEX INCORPORATED
12	2007/05/02	2007/05/02	2006/02/06	2006/02/06	2006/02/06	2006/02/06	2006/02/06	ANGULAR ±	±	DATE	2006/02/06	5:1	METRIC	0	MOLEX INCORPORATED
13	2007/05/02	2007/05/02	2006/02/06	2006/02/06	2006/02/06	2006/02/06	2006/02/06	ANGULAR ±	±	DATE	2006/02/06	5:1	METRIC	0	MOLEX INCORPORATED
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19	2007/05/02	2007/05/02	2006/02/06	2006/02/06	2006/02/06	2006/02/06	2006/02/06	ANGULAR ±	±	DATE	2006/02/06	5:1	METRIC	0	MOLEX INCORPORATED
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