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Part Number: [0758362124](#)
Status: **Active**
Overview: [gbx_backplane_connector_system](#)
Description: 1.85mm by 1.85mm (.073 by .073") Pitch 4-Pair GbX® Backplane Connector System, Right Guide Header, 60 Circuits, Lead Free, Pin Length 4.55mm (.179")

Documents:

Packaging Specification (PDF)	Product Specification PS-75221-999 (PDF)
Drawing (PDF)	RoHS Certificate of Compliance (PDF)

Agency Certification

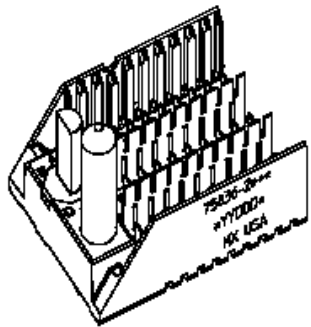
UL	E29179
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General

Product Family	Backplane Connectors
Series	75836
Application	Backplane
Application Tooling Documents	Tooling Manual
Comments	Left Guide Header, Keying Position B
Component Type	PCB Header
Overview	gbx_backplane_connector_system
Product Name	GbX®
Style	N/A

Physical

Circuits (Loaded)	60
Circuits (maximum)	60
Color - Resin	Black
Durability (mating cycles max)	200
First Mate / Last Break	No
Flammability	94V-0
Guide to Mating Part	Yes
Keying to Mating Part	Yes
Material - Metal	High Performance Alloy (HPA), Stainless Steel
Material - Plating Mating	Gold
Material - Plating Termination	Tin
Material - Resin	High Temperature Thermoplastic
Number of Columns	10
Number of Pairs	4
Number of Rows	6
Orientation	Vertical
PC Tail Length (in)	0.091 In
PC Tail Length (mm)	2.30 mm
PCB Locator	No
PCB Retention	Yes
PCB Thickness Recommended (in)	0.063 In
PCB Thickness Recommended (mm)	1.60 mm
Packaging Type	Tray
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



Series
image - Reference only

EU RoHS

**ELV and RoHS
Compliant**
REACH SVHC
Not Reviewed
**Halogen-Free
Status**

China RoHS



**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
[75836Series](#)

Plating min: Termination (μm)	0.76
Polarized to PCB	No
Stackable	No
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)	82
Shield Type	Ground Plane Shield
Shielded	Yes
Voltage - Maximum	120V AC (RMS)/DC

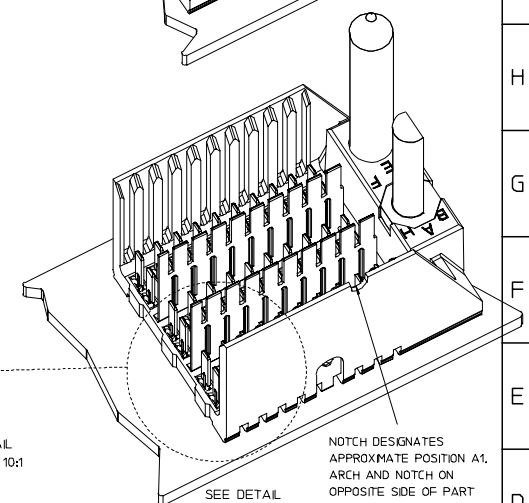
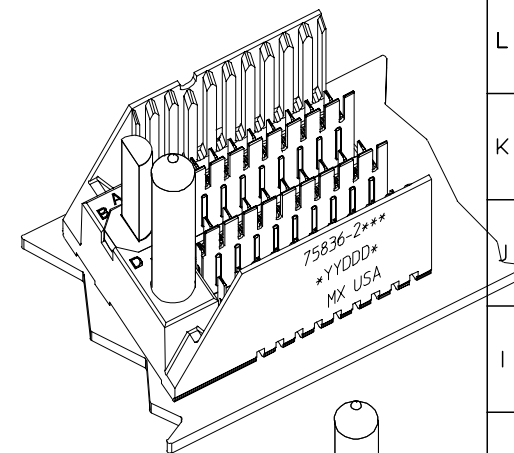
Material Info

Reference - Drawing Numbers

Packaging Specification	PK-70873-572
Product Specification	PS-75221-999
Sales Drawing	SD-75836-210

GbX is a registered trademark of Amphenol Corporation.

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PART NUMBER TABLE				
ASSY PART NO.	K	L	P	TOTAL NO. OF DIFFERENTIAL PAIRS
75836-21**	9	16.65	24.78	30
75836-22**	24	44.40	52.53	75
75836-25**	4	7.40	15.53	15

NOTES:

1. MATERIAL: COLORING LIQUID CRYSTAL POLYMER (LCP) GLASS-FILLED.
- UL 94V-0, HOUSING - GRAY. SIGNAL CONTACT AND GROUND BLADE - HIGH PERFORMANCE COPPER ALLOY.
2. FINISHES: SELECTIVE GOLD (Au) ON CONTACT AREA. SELECTIVE MATTE TIN (Sn) ON PCB TAILS. NICKEL (Ni) OVERALL.
3. THIS PART CONFORMS TO MOLEX PRODUCT SPECIFICATION PS-75221-999.
4. FOR MIXED CONTACT MATING LENGTHS CONSULT MOLEX FOR AVAILABILITY. CONTACT PAIRS MUST BE THE SAME LENGTH.
5. FOR SPECIFIC PART NUMBER AND MATING INFORMATION PLEASE REFER TO CHART.
6. PACKAGE PER PK-70873-572.
7. EITHER MARK PART NUMBER AND DATE CODE APPROXIMATELY WHERE SHOWN OR PLACE A LABEL ON THE TUBE.
8. OPTIONAL HOLE LOCATION FOR GROUNDED GUIDE PIN OR ADDITIONAL GUIDE PIN SUPPORT. FOR GROUNDED GUIDE PIN, HOLE TO BE PLATED, DRILL SIZE Ø2.58, PAD SIZE Ø5.50
9. THESE PARTS CONFORM TO MOLEX COSMETIC SPECIFICATION PS-45499-002 CLASS B.

MODULE
ORIENTATION
LEFT = 2

75836-2 * * *

COLUMN	PN LENGTH
1-10 COL	DM "M"
2-25 COL	3-3.55 mm
5= 5 COL	4-4.55 mm
	5-5.55 mm

P/N 75863 ()	--xx0*	--xx1*	--xx2*	--xx3*	--xx4*	--xx5*	--xx6*	--xx7*	--xx8*
KEYING PIN ORIENTATION	0	A	B	C	D	E	F	G	H

LEAD-FREE
PLATING ON
SIGNALS, & GROUNDS.

REVISED	EC NO: UCP2007-2799	DESCRIPTION	QUALITY SYMBOLS	GENERAL TOLERANCES (UNLESS SPECIFIED)		SCALE 5:1	DESIGN UNITS METRIC		THIRD ANGLE PROJECTION	REVISE ON CAD ONLY
				DIMENSION STYLE		TITLE				
				MM ONLY		GBX 3-PAIR LEFT END BACKPLANE ASSEMBLY LEAD-FREE SALES DRAWING				
				DRAWN BY DATE		 MOLEX INCORPORATED				
				THOMAS 2006/01/13						
REV	CHK'D: 2007/05/03	APPR: SPEED 2007/05/03	 0  0	4 PLACES ± --- ± ---	DRAWN BY DATE THOMAS 2006/01/13 CHECKED BY DATE KMULVEY 2006/01/16 APPROVED BY DATE JBINGHAM 2006/01/17	 MOLEX INCORPORATED	MATERIAL NO. SEE CHART	DOCUMENT NO. SD-75836-210	SHEET NO. 1 OF 1	
	3 PLACES ± --- ± ---									
	2 PLACES ± --- ± ---									
	1 PLACE ± --- ± ---									
				ANGULAR ± ---°						
				DRAFT WHERE APPLICABLE						
				MUST REMAIN WITHIN DIMENSIONS	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION					D