

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

Part Number:

0758360204

Status:

Active

Overview:

gbx_backplane_connector_system

Description:

1.85mm by 1.85mm (.073 by .073") Pitch 3-Pair GbX® Backplane Connector System, Open Header, 60 Circuits, Lead Free, Pin Length 4.55mm (.179")

Documents:

Drawing (PDF)

Packaging Specification (PDF)

Product Specification PS-75221-999 (PDF)

RoHS Certificate of Compliance (PDF)

Agency Certification

UL

E29179

General

Product Family

Series

Application

Application Tooling Documents

Comments

Component Type

Overview

Product Name

Style

Backplane Connectors

75836

Backplane

Tooling Manual

Open Header

PCB Header

gbx_backplane_connector_system

GbX®

N/A

Physical

Circuits (Loaded)

Circuits (maximum)

Color - Resin

Durability (mating cycles max)

First Mate / Last Break

Flammability

Guide to Mating Part

Keying to Mating Part

Material - Metal

Material - Plating Mating

Material - Plating Termination

Material - Resin

Number of Columns

Number of Pairs

Number of Rows

Orientation

PC Tail Length (in)

PC Tail Length (mm)

PCB Locator

PCB Retention

PCB Thickness Recommended (in)

PCB Thickness Recommended (mm)

Packaging Type

Pitch - Mating Interface (in)

Pitch - Mating Interface (mm)

Pitch - Term. Interface (in)

Pitch - Term. Interface (mm)

Plating min: Mating (µin)

Plating min: Mating (µm)

Plating min: Termination (µin)

150

150

Black

200

No

94V-0

No

None

High Performance Alloy (HPA)

Gold

Tin

High Temperature Thermoplastic

25

3

6

Vertical

0.087 In

2.20 mm

No

Yes

0.063 In

1.60 mm

Tube

0.073 In

1.85 mm

0.073 In

1.85 mm

30

0.76

30

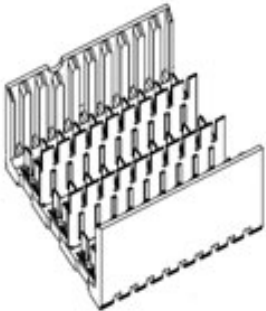


image - Reference only

Series

EU RoHS

ELV and RoHS

Compliant

REACH SVHC

Not Reviewed

Halogen-Free

Status

Not Reviewed

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

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® 3 Pair by 25	0622022530
Wide Differential	
Insertion Tool	

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

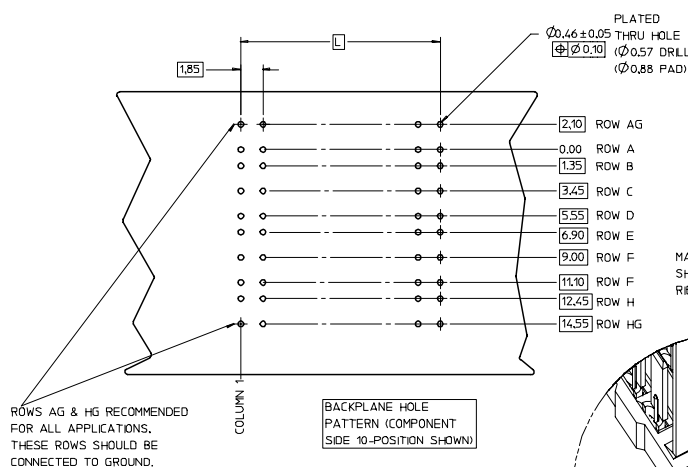
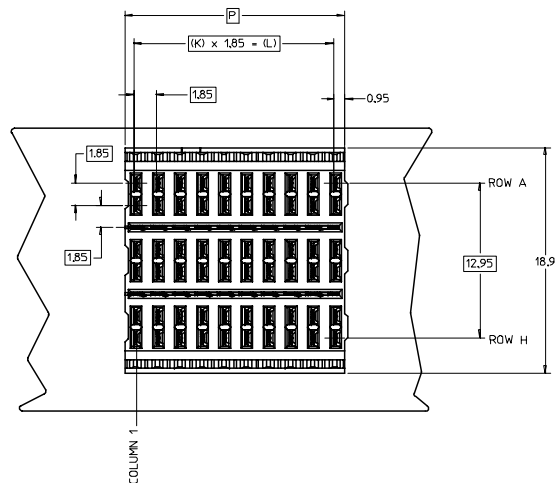
Reference - Drawing Numbers

Packaging Specification	PK-70873-576
Product Specification	PS-75221-999
Sales Drawing	SD-75836-010

GbX is a registered trademark of Amphenol Corporation.

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



BACKPLANE HOLE PATTERN (COMPONENT SIDE 10-POSITION SHOWN)

PLATED
Ø0.46±0.05 THRU HOLE
(Ø0.57 DRILL)
(Ø0.88 PAD)

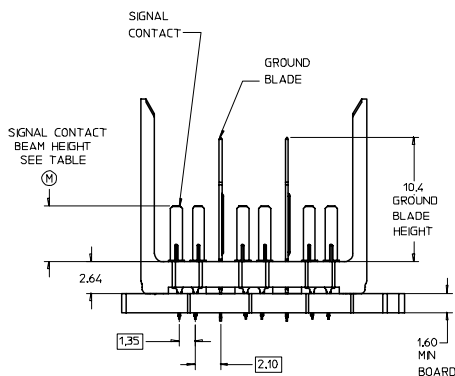
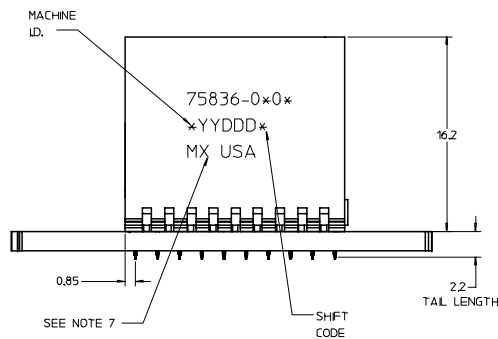
2.10 ROW AG
0.00 ROW A
1.35 ROW B
3.45 ROW C
5.55 ROW D
6.90 ROW E
9.00 ROW F
11.10 ROW G
12.45 ROW H
14.55 ROW HG

MATING SIDE OF SHIELD (OPPOSITE RB SIDE OF CONTACT)

MATING SIDE OF SIGNAL (RB SIDE OF CONTACT)

DETAIL SCALE 10:1

NOTCH DESIGNATES APPROXIMATE POSITION AT A1, ARCH AND NOTCH ON OPPOSITE SIDE OF PART MARKING



LEAD-FREE PLATING ON SIGNALS & GROUNDS.

- NOTES:
1. MATERIAL: HOUSING - LIQUID CRYSTAL POLYMER (LCP) GLASS-FILLED, UL 94V-0, COLOR - 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-70873-576.
 7. EITHER MARK PART NUMBER AND DATE CODE APPROXIMATELY WHERE SHOWN OR PLACE A LABEL ON THE TUBE.

PART NUMBER TABLE			
ASSY PART NO.	K	L	P
75836-010*	9	16.65	18.35
75836-020*	24	44.40	46.10
75836-050*	4	7.40	9.10

75836-0*0*
PN LENGTH
DM "M"
3=3.55 mm
4=4.55 mm
5=5.55 mm

KEYING
ORIENTATION
OPEN = 0 (NONE)

REVISED EC NO: UCP2006-2458 DRAWN: JBINGHAM 2006/04/20 CHKD: 2006/04/20 APPR: CBXLER 2006/04/20	QUALITY SYMBOLS 0.0 0.0	GENERAL TOLERANCES (UNLESS SPECIFIED)	SCALE 5:1	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION	REVISE ON CAD ONLY
B	DESCRIPTION	4 PLACES ±	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		

TITLE
GBX 3-PAIR OPEN END BACKPLANE ASSEMBLY
LEAD-FREE SALES DRAWING

MATERIAL NO. SEE CHART
DOCUMENT NO. SD-75836-010
SHEET NO. 1 OF 1

MOLEX INCORPORATED

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