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Part Number:

0758360505

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, 30 Circuits, Lead Free, Pin Length 5.55mm (.219")

Documents:

Drawing (PDF)

RoHS Certificate of Compliance (PDF)

Product Specification PS-75221-999 (PDF)

Agency Certification

UL

E29179

General

Product Family

Backplane Connectors

Series

75836

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)

30

Circuits (maximum)

0

Color - Resin

Black

Durability (mating cycles max)

200

First Mate / Last Break

No

Flammability

94V-0

Guide to Mating Part

No

Keying to Mating Part

None

Material - Metal

High Performance Alloy (HPA)

Material - Plating Mating

Gold

Material - Plating Termination

Tin

Material - Resin

High Temperature Thermoplastic

Number of Columns

5

Number of Pairs

3

Number of Rows

6

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)

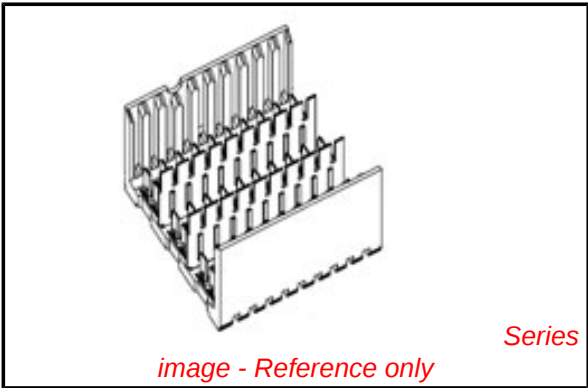
30

Plating min: Mating (µm)

0.76

Plating min: Termination (µin)

30



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 5

0622022500

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

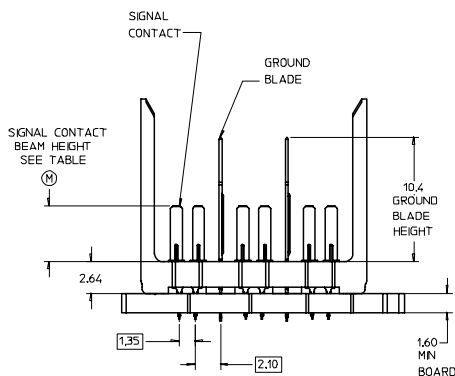
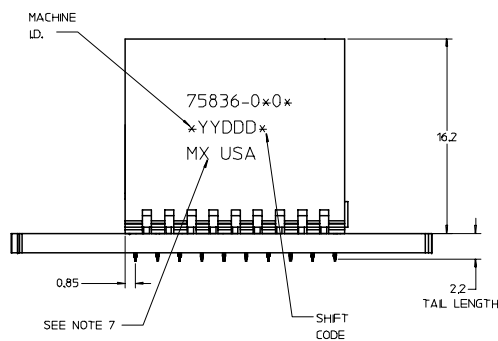
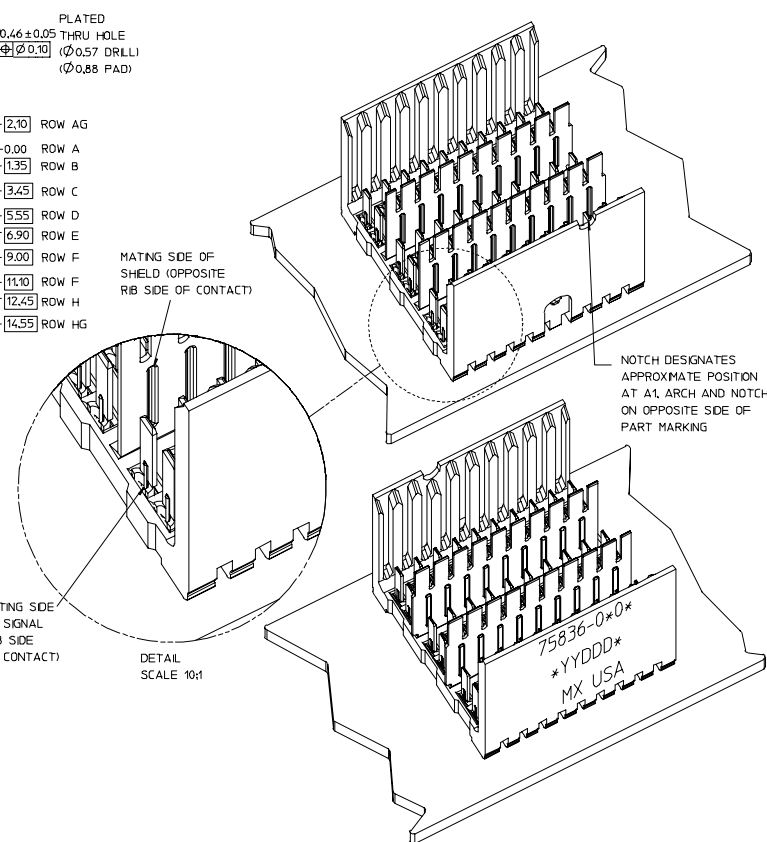
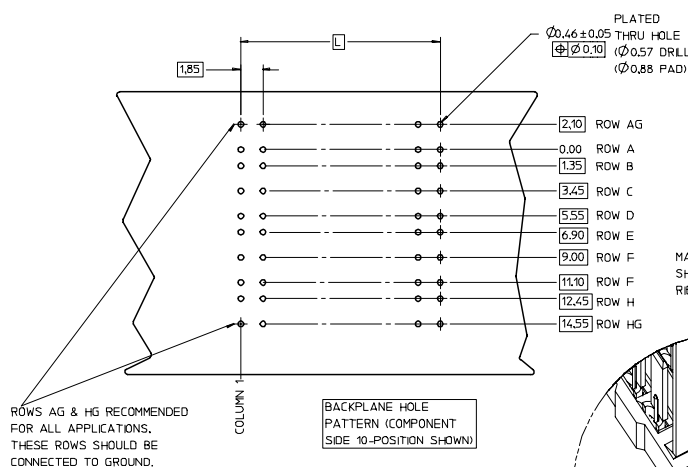
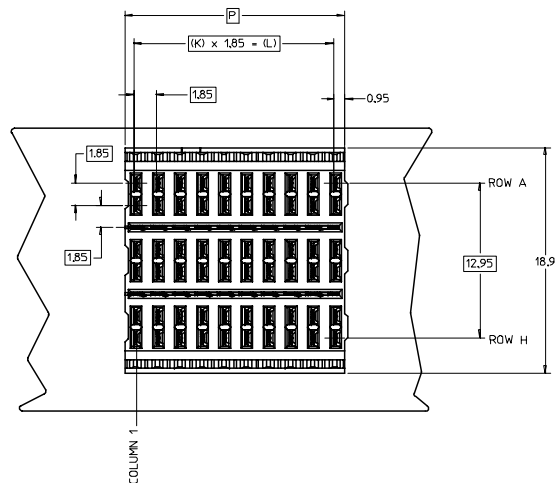
Packaging Specification	PK-70873-576
Product Specification	PS-75221-999
Sales Drawing	SD-75836-010

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



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	TOTAL NO. OF DIFFERENTIAL PAIRS
75836-010*	9	16.65	18.35	30
75836-020*	24	44.40	46.10	75
75836-050*	4	7.40	9.10	15

REVISED EC NO: UCP2006-2458 DRWN: JBRINGHAM 2006/04/20 CHKD: 2006/04/20 APPR: CBXLER 2006/04/20	DESCRIPTION	QUALITY SYMBOLS ▽.0 ▽.0	GENERAL TOLERANCES (UNLESS SPECIFIED)		SCALE 5:1	DESIGN UNITS METRIC	 THIRD ANGLE PROJECTION	REVISE ON CAD ONLY	
					DIMENSION STYLE				TITLE
					MM ONLY				
					DRAWN BY DATE				
			4 PLACES ± --- ± ---	THOMAS 2006/01/13	GBX 3-PAIR OPEN END BACKPLANE ASSEMBLY				
			3 PLACES ± --- ± ---	CHECKED BY DATE	LEAD-FREE SALES DRAWING				
			2 PLACES ± --- ± ---	KMULVEY 2006/01/16	MOLEX INCORPORATED				
			1 PLACE ± --- ± ---	APPROVED BY DATE	MATERIAL NO.	DOCUMENT NO.	SHEET NO.		
			ANGULAR ± ---°	JBRINGHAM 2006/01/17	SEE CHART	SD-75836-010	1 OF 1		
			DRAFT WHERE APPLICABLE	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION					
			MUST REMAIN WITHIN DIMENSIONS						