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Part Number: [0758380104](#)
Status: **Active**
Overview: [gbx_backplane_connector_system](#)
Description: 1.85mm by 1.85mm (.073 by .073") Pitch 4-Pair GbX® Backplane Connector System, Open Header, 80 Circuits, Lead Free, Pin Length 4.55mm (.179")

Documents:
[Drawing \(PDF\)](#) [RoHS Certificate of Compliance \(PDF\)](#)
[Product Specification PS-75221-999 \(PDF\)](#)

Agency Certification

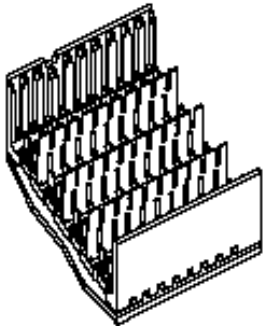
UL E29179

General

Product Family Backplane Connectors
Series [75838](#)
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) 80
Circuits (maximum) 80
Color - Resin Gray
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 10
Number of Pairs 4
Number of Rows 8
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 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



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
[75838Series](#)

Mates With
[75878](#) Daughtercard Assembly

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 #
Insertion Tool, GbX®	0622022000
4 pair by 10 wide	

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)	108
Shield Type	Ground Plane Shield
Shielded	Yes
Voltage - Maximum	120V AC (RMS)/DC

Material Info

Reference - Drawing Numbers

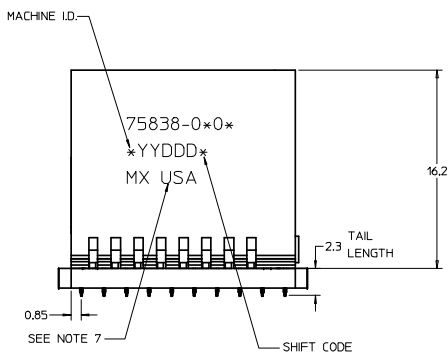
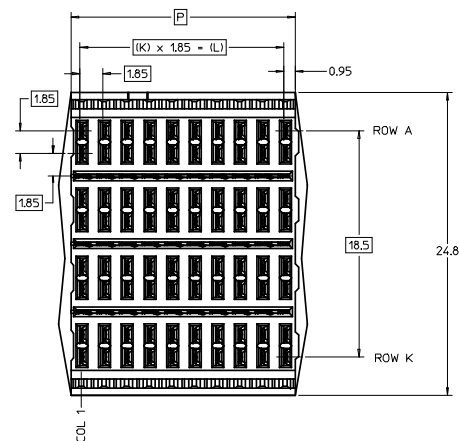
Packaging Specification	PK-70873-563
Product Specification	PS-75221-999
Sales Drawing	SD-75838-010

GbX is a registered trademark of Amphenol Corporation.

This document was generated on 06/07/2010

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20 19 18 17 16 15 14 13 12 11 75838 9 8 7 6 5 4 3 2 1



75838- 0 * 0 *

MODULE ORIENTATION
OPEN = 0

COLUMN
1 = 10 COL
2 = 25 COL
5 = 5 COL
7 = 7 COL

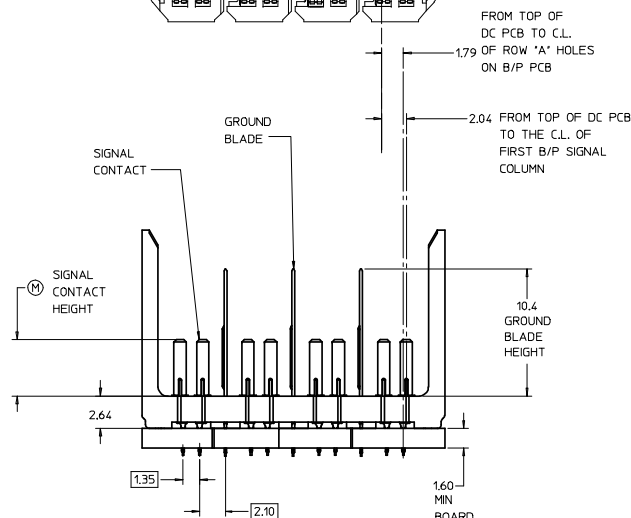
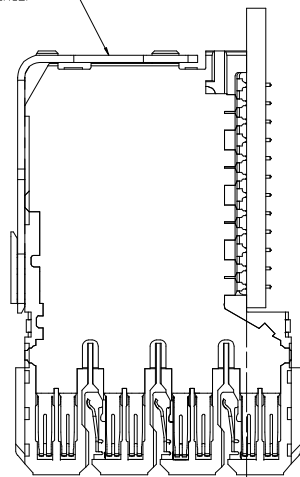
PIN LENGTH
DIM "M"
3=3.55 mm
4=4.55 mm
5=5.55 mm

KEYING ORIENTATION
0 = OPEN

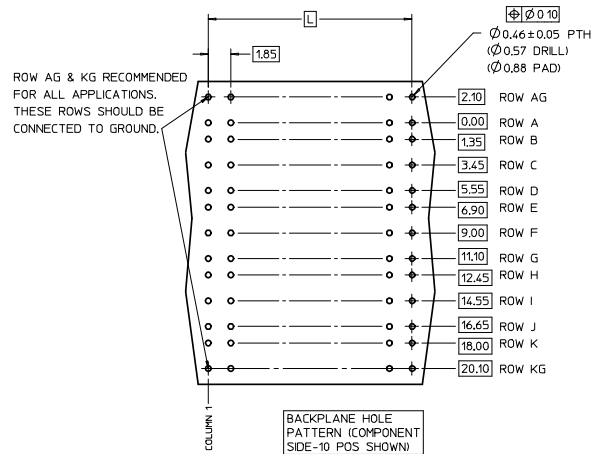
NOTES:

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-70873-563.
7. EITHER MARK PART NUMBER AND DATE CODE APPROXIMATELY WHERE SHOWN OR PLACE A LABEL ON THE TUBE.
8. THESE PARTS CONFORM TO MOLEX COSMETIC SPECIFICATION PS-45499-002 CLASS B.

DAUGHTERCARD
WAFER
(REFERENCE)



PART NUMBER TABLE				
ASSY PART NO.	K	L	P	TOTAL NO. OF DIFFERENTIAL PAIRS
75838-010*	9	16.65	18.35	40
75838-020*	24	44.40	46.10	100
75838-050*	4	7.40	9.10	20
75838-070*	6	11.10	12.80	28



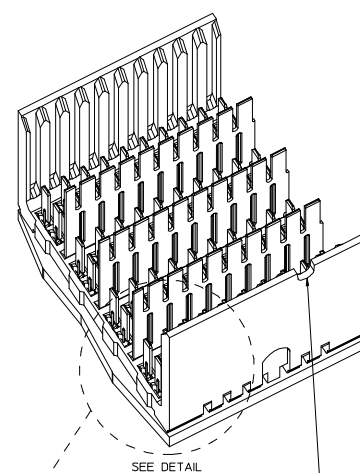
ROW AG & KG RECOMMENDED FOR ALL APPLICATIONS. THESE ROWS SHOULD BE CONNECTED TO GROUND.

MATING SIDE OF SHIELD (OPPOSITE RIB SIDE OF CONTACT)

MATING SIDE OF SIGNAL (RIB SIDE OF CONTACT)

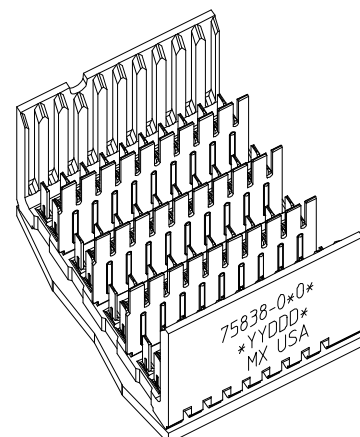
DETAIL SCALE 10:1

LEAD-FREE PLATING ON SIGNALS, & GROUNDS.



SEE DETAIL

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



ADD 5 & 7 COLUMN PARTS EC NO: UCP2008-2605 DRAWN: BINGHAM 2008/04/24 CHKD: 2008/04/23 APPR: LAUREX 2008/04/28 REV	QUALITY SYMBOLS DESCRIPTION REV	GENERAL TOLERANCES (UNLESS SPECIFIED) mm INCH 4 PLACES ± --- ± --- 3 PLACES ± --- ± --- 2 PLACES ± --- ± --- 1 PLACE ± --- ± --- ANGULAR ± ---° DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS	SCALE 5:1 DESIGN UNITS METRIC DIMENSION STYLE MM ONLY DRAWN BY CTHOMAS DATE 2006/01/03 CHECKED BY KMULVEY DATE 2006/01/04 APPROVED BY JBINGHAM DATE 2006/01/05	THIRD ANGLE PROJECTION REVISE ON CAD ONLY TITLE GBX 4-PAIR OPEN END BACKPLANE ASSEMBLY LEAD-FREE SALES DRAWING MATERIAL NO. SEE CHART DOCUMENT NO. SD-75838-010 SHEET NO. 1 OF 1

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