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Part Number: [0758274104](#)
Status: **Active**
Overview: [gbx_backplane_connector_system](#)
Description: 1.85mm by 1.85mm (.073 by .073") Pitch 2-Pair GbX® Backplane Connector System, Right Guide Header, 40 Circuits, Gold (Au) 0.76µm (30µ"), Pin Length 4.55mm (.179")

Documents:

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

Agency Certification

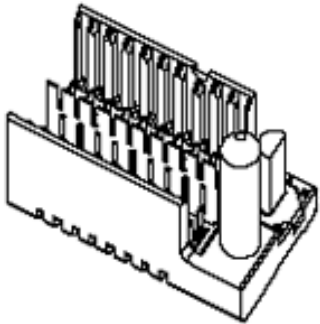
UL E29179

General

Product Family Backplane Connectors
Series [75827](#)
Application Backplane
Application Tooling Documents Tooling Manual
Comments Right Guide Header, No Keying Postion
Component Type PCB Header
Overview [gbx_backplane_connector_system](#)
Product Name GbX®
Style N/A

Physical

Circuits (Loaded) 40
Circuits (maximum) 40
Color - Resin Gray (Dark)
Durability (mating cycles max) 200
First Mate / Last Break No
Flammability 94V-0
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 4
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

RoHS Compliant by Exemption

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

[75827Series](#)

Mates With

[75650 GbX® 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	0622022410
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)	54
Shield Type	Ground Plane Shield
Shielded	Yes
Voltage - Maximum	120V AC (RMS)/DC

Material Info

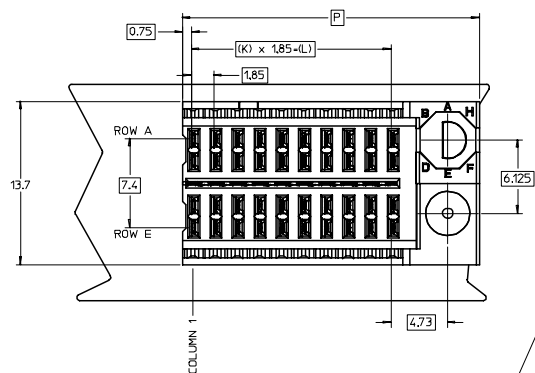
Reference - Drawing Numbers

Packaging Specification	PK-70873-5058
Product Specification	PS-75221-999
Sales Drawing	SD-75827-410

GbX is a registered trademark of Amphenol Corporation.

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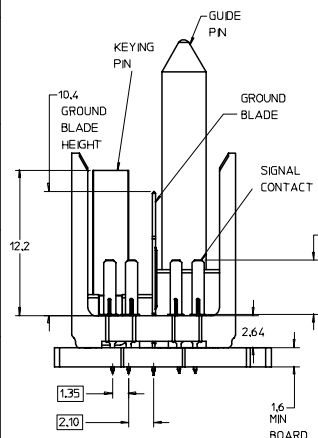
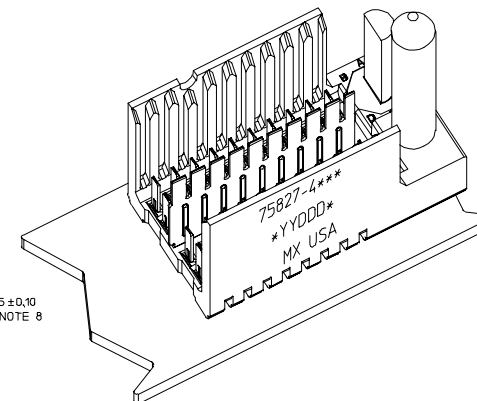
$\varnothing 0.10$
 $\varnothing 0.46 \pm 0.05$ PTH
 $\varnothing 0.57$ DRILL
 $\varnothing 0.88$ PAD

ROW AG
 ROW A
 ROW B
 ROW C
 ROW D
 ROW E
 ROW EG

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

BACKPLANE HOLE
 PATTERN (COMPONENT
 SIDE-10 POS SHOWN)

$\varnothing 2.45 \pm 0.10$
 SEE NOTE 8



MACHINE ID.

SIGNAL CONTACT HEIGHT
 2.3
 TAIL LENGTH

SEE NOTE 7

MODULE ORIENTATION
RIGHT = 4

KEYING ORIENTATION
 0-NONE
 1=A
 2=B
 ETC...

COLUMN
 1=10 COL
 2=25 COL

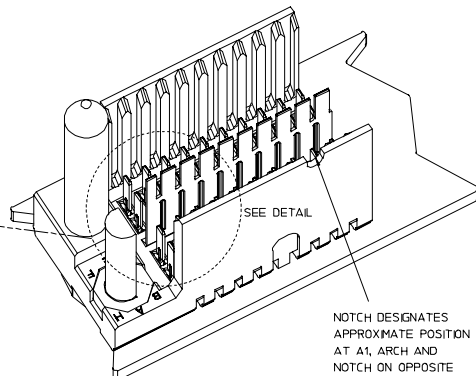
PIN LENGTH
 DIM "M"
 3=3.55 mm
 4=4.55 mm
 5=5.55 mm

PART NUMBER TABLE				
ASSY PART NO.	K	L	P	TOTAL NO. OF DIFFERENTIAL PAIRS
75827-41**	9	16.65	24.78	20
75827-42**	24	44.40	52.53	50

MATING SIDE OF
 SHIELD (OPPOSITE
 RIB SIDE OF CONTACT)

MATING SIDE
 OF SIGNAL
 (RIB SIDE OF
 CONTACT)

DETAIL
 SCALE 10:1



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

- 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 TIN/LEAD (Sn/Pb) 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-70873-5058.
 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, HOLE TO BE PLATED, DRILL SIZE $\varnothing 258$, PAD SIZE $\varnothing 550$.
 9. THESE PARTS CONFORM TO MOLEX COSMETIC SPECIFICATION PS-45499-002 CLASS B.

P/N	75827-4	75827-5	75827-6	75827-7	75827-8	75827-9	75827-10	75827-11	75827-12	75827-13	75827-14	75827-15	75827-16	75827-17	75827-18	75827-19	75827-20
KEYING PIN ORIENTATION	0	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P

REVISED	EC NO: UCP2007-2580 DRWN: JINGHAM 2007/05/02 CHKD: JINGHAM 2007/05/02 APPR: SREED 2007/05/02	DESCRIPTION	QUALITY SYMBOLS	GENERAL TOLERANCES (UNLESS SPECIFIED)		SCALE	DESIGN UNITS		THIRD ANGLE PROJECTION	REVISE ON CAD ONLY	
						5:1	METRIC				
						DIMENSION STYLE					TITLE
						MM ONLY					
4 PLACES	±--- ±---	DRAWN BY	DATE								
3 PLACES	±--- ±---	NMARTIN	2005/07/05								
2 PLACES	±--- ±---	CHECKED BY	DATE								
1 PLACE	±--- ±---	JMYCZEK	2005/07/05								
	ANGULAR ±---°	APPROVED BY	DATE								
		SREED	2005/07/05								
		DRAFT WHERE APPLICABLE		MATERIAL NO.	DOCUMENT NO.	SHEET NO.					
		MUST REMAIN		SEE CHART	SD-75827-410	1 OF 1					
		WITHIN DIMENSIONS		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION							