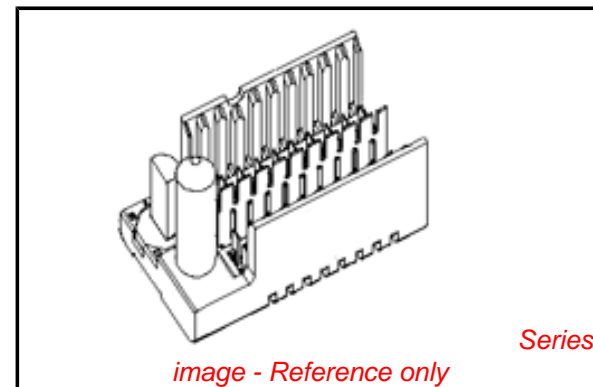


PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

Part Number: [0756472104](#)
Status: **Active**
Overview: [gbx_backplane_connector_system](#)
Description: 1.85mm by 1.85mm (.073" by .073") Pitch 2-Pair GbX® Backplane Electrically Enhanced Connector System, Left Guide Header, 100 Circuits, Pin Length 4.55mm (.179")

Documents:

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



General

Product Family	Backplane Connectors
Series	75647
Application	Backplane
Application Tooling Documents	Tooling Manual
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), Red
Durability (mating cycles max)	200
First Mate / Last Break	No
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	Yes
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
Plating min: Termination (µm)	0.76
Polarized to PCB	Yes
Stackable	No
Surface Mount Compatible (SMC)	Yes

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

[75647Series](#)

Mates With

[75650 GbX® Daughtercard](#)

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
Shielded No
Voltage - Maximum 120V AC (RMS)/DC

Material Info

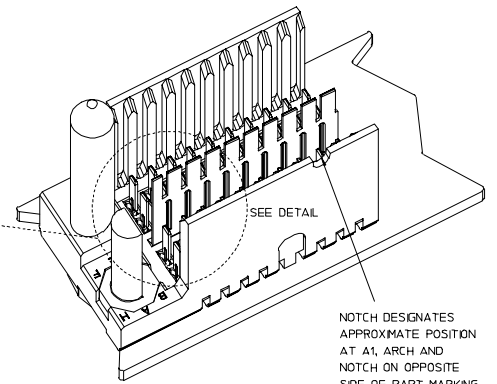
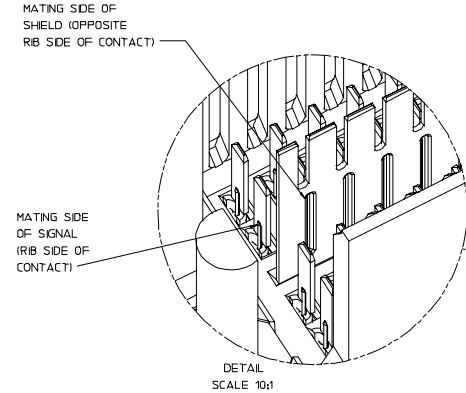
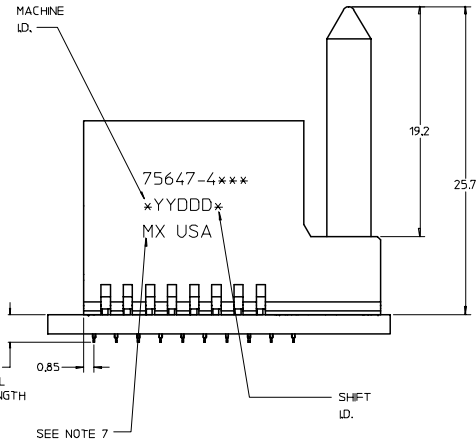
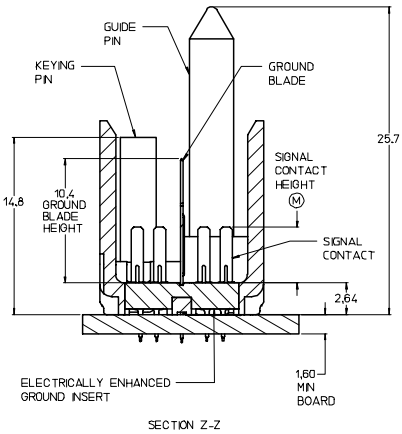
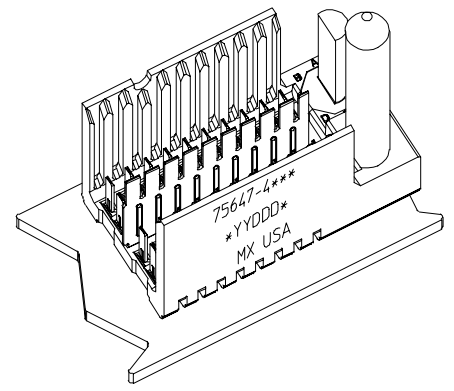
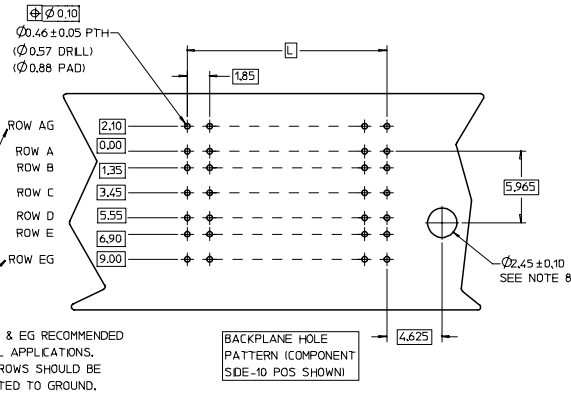
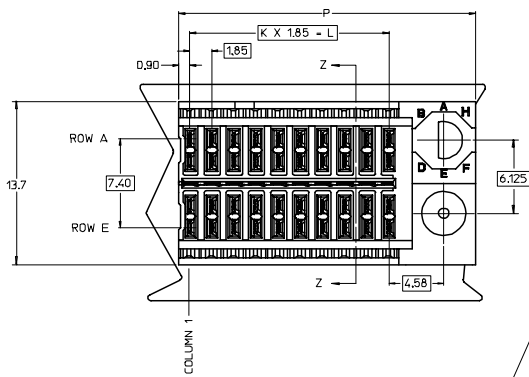
Reference - Drawing Numbers

Packaging Specification PK-70873-5058
Product Specification PS-75221-999
Sales Drawing SD-75647-210

GbX is a registered trademark of Amphenol Corporation.

This document was generated on 05/14/2010

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- NOTES:**
1. MATERIAL: HOUSING - LIQUID CRYSTAL POLYMER (LCP) GLASS-FILLED, UL 94V-0, COLOR - GRAY. ELECTRICALLY ENHANCED GROUND INSERT - CONDUCTIVE RESIN, COLOR - RED, 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. THESE PARTS CONFORM 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. MARK PART NUMBER AND DATE CODE APPROXIMATELY WHERE SHOWN.
 8. OPTIONAL HOLE LOCATION FOR GROUNDED GUIDE PIN OR ADDITIONAL GUIDE PIN SUPPORT. FOR GROUNDED GUIDE PIN, HOLE TO BE PLATED, DRILL SIZE $\phi 2.58$, PAD SIZE $\phi 5.50$.
 9. THESE PARTS CONFORM TO MOLEX COSMETIC SPECIFICATION PS-45499-002 CLASS B.

MODULE ORIENTATION RIGHT = 4

KEYING ORIENTATION

0-NONE
1-A
2-B
ETC...

75647-4 * * *

PIN LENGTH DIM "M"

1-10 COL 3=3.55 mm
2-25 COL 4=4.55 mm
5-5 COL 5=5.55 mm

PART NUMBER TABLE				
ASSY PART NO.	K	L	P	TOTAL NO. OF DIFFERENTIAL PAIRS
75647-45**	4	7.40	15.53	10
75647-41**	9	16.65	24.78	20
75647-42**	24	44.40	52.53	50

P/N	---0*	---1*	---2*	---3*	---4*	---5*	F	---7*	---8*
75647-1	0	A	B	C	D	E	F	G	H
KEYING PIN ORIENTATION									

ADD 5-COL PART	QUALITY SYMBOLS	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE		SCALE	DESIGN UNITS	THIRD ANGLE PROJECTION
		mm	INCH	MM ONLY	INCH			
EC NO: UCP2008-0466	$\nabla=0$ $\nabla=0$	4 PLACES ±	±	MM ONLY	DATE	5:1	METRIC	
DRW: JB INGHAM		3 PLACES ±	±	DATE	TITLE			
CHKD: JH INGHAM		2 PLACES ±	±	DATE	GBX 2-PAIR BACKPLANE			
APPR: JLAIRX		1 PLACE ±	±	DATE	ELECTRICALLY ENHANCED			
REV	DESCRIPTION	ANGULAR ±		APPROVED BY	DATE	MOLEX INCORPORATED		
		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SEE CHART	2006/01/19	SD-75647-410		SHEET NO. 1 OF 1
		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION						