

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

Part Number: [0756470104](#)
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, Open Header, 100 Circuits, Pin Length 4.55mm (.179")

Documents:

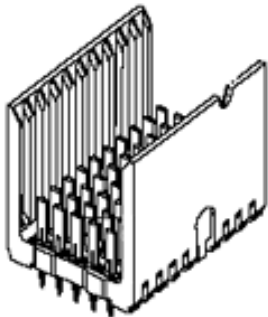
[Drawing \(PDF\)](#) [RoHS Certificate of Compliance \(PDF\)](#)
[Product Specification PS-75221-999 \(PDF\)](#)

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	No
Keying to Mating Part	None
Material - Metal	High Performance Alloy (HPA)
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
Plating min: Termination (µm)	0.76
Polarized to PCB	No
Stackable	No
Surface Mount Compatible (SMC)	Yes
Temperature Range - Operating	105°C



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

[75647Series](#)

Mates With

[75650 GbX® Daughtercard](#)

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

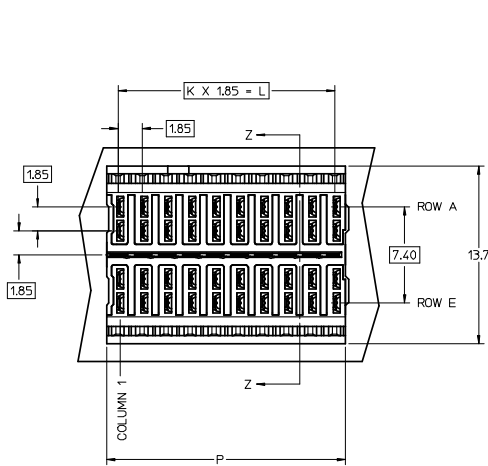
Sales Drawing

SD-75647-010

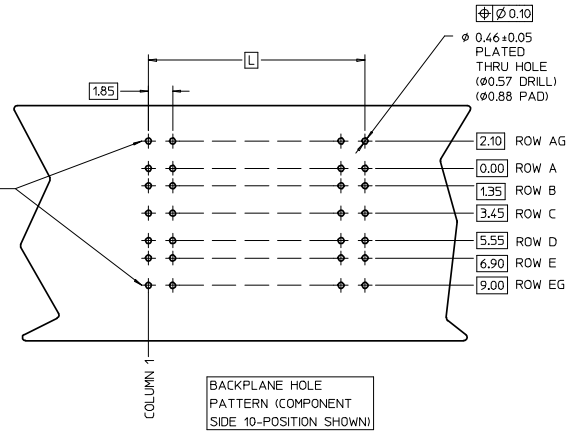
GbX is a registered trademark of Amphenol Corporation.

This document was generated on 05/14/2010

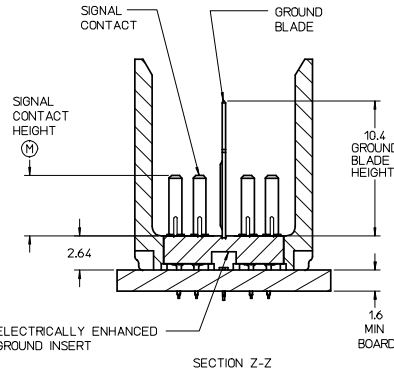
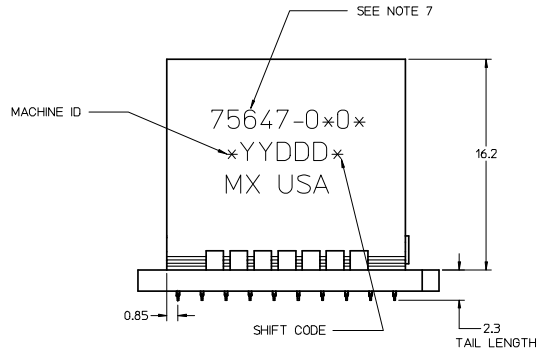
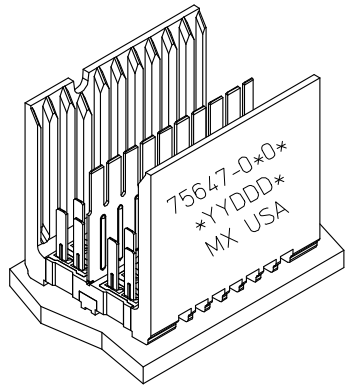
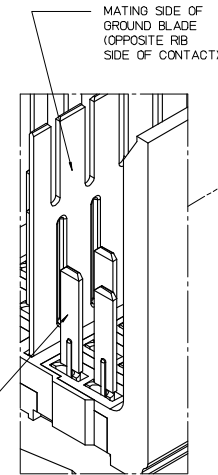
PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION



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



BACKPLANE HOLE PATTERN (COMPONENT SIDE 10-POSITION SHOWN)



- 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. 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. MARK PART NUMBER AND DATE CODE APPROXIMATELY WHERE SHOWN.
 8. THIS PART CONFORMS TO MOLEX COSMETIC SPECIFICATION PS-45499-002 CLASS B.

COLUMN
01 = 10 COL
02 = 25 COL
05 = 5 COL

75647-**0*
KEYING
ORIENTATION
OPEN = 0 (NONE)

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
75647-050*	4	7.40	9.10	10
75647-010*	9	16.65	18.35	20
75647-020*	24	44.40	46.10	50

REVISED (MINOR) EC NO: UCP-2008-2211 DRAWN: JB INGHAM CHKD: JLAURX APPR: JLAURX DATE: 2008/03/10 DATE: 2008/03/12 DATE: 2008/03/24 REV: B2	QUALITY SYMBOLS =0 =0 DESCRIPTION	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE 5:1	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION			
		4 PLACES ± --- INCH 3 PLACES ± --- INCH 2 PLACES ± 0.13 INCH 1 PLACE ± 0.25 INCH		DRAWN BY: JB INGHAM DATE: 2006/01/18 CHECKED BY: KMULVEY DATE: 2006/01/18 APPROVED BY: SREED DATE: 2006/01/18		TITLE GBX 2-PAIR BACKPLANE ELECTRICALLY ENHANCED OPEN END SALES ASSEMBLY					
		ANGULAR ± ---°		MATERIAL NO. SEE CHART		DOCUMENT NO. SD-75647-010					
		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SIZE D		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION					