

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

Part Number: [0878344019](#)
Status: **Active**
Overview: [cgrid_sl_products](#)
Description: 2.54mm (.100") Pitch C-Grid® Header, Dual Row, Low Profile, Vertical, Shrouded, 40 Circuits, 0.13µm (5µ") Gold (Au) Plating, Black, without PCB Locator, without End Window, Center Polarization Slot, Lead-free

Documents:

[3D Model](#) [Product Specification PS-70246-100 \(PDF\)](#)
[Drawing \(PDF\)](#) [RoHS Certificate of Compliance \(PDF\)](#)

Agency Certification

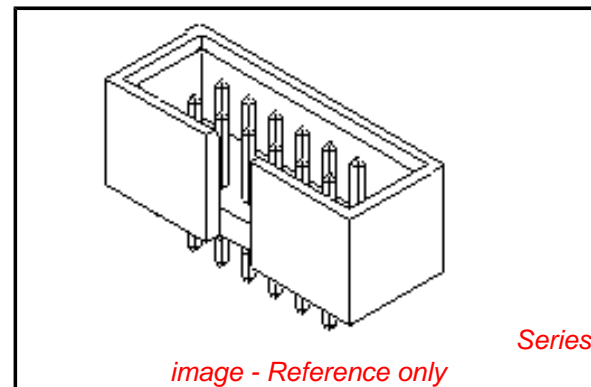
UL E29179

General

Product Family PCB Headers
 Series [87834](#)
 Application Wire-to-Board
 Overview [cgrid_sl_products](#)
 Product Name C-Grid®

Physical

Breakaway No
 Circuits (Loaded) 40
 Circuits (maximum) 40
 Color - Resin Black
 First Mate / Last Break No
 Flammability 94V-0
 Glow-Wire Compliant No
 Guide to Mating Part No
 Keying to Mating Part None
 Lock to Mating Part None
 Material - Plating Mating Gold
 Material - Plating Termination Tin
 Material - Resin Polyester
 Number of Rows 2
 Orientation Vertical
 PC Tail Length (in) 0.135 In
 PC Tail Length (mm) 3.43 mm
 PCB Locator No
 PCB Retention None
 Packaging Type Tray
 Pitch - Mating Interface (in) 0.100 In
 Pitch - Mating Interface (mm) 2.54 mm
 Pitch - Term. Interface (in) 0.100 In
 Pitch - Term. Interface (mm) 2.54 mm
 Plating min: Mating (µin) 5.2
 Plating min: Mating (µm) 0.13
 Plating min: Termination (µin) 75.2
 Plating min: Termination (µm) 1.88
 Polarized to Mating Part Center Slot
 Polarized to PCB Yes
 Shrouded Fully
 Stackable No
 Temperature Range - Operating -55°C to +120°C
 Termination Interface: Style Through Hole



EU RoHS

ELV and RoHS Compliant
REACH SVHC Contains SVHC: No
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

[87834Series](#)

Mates With

.050" pitch ribbon cable connectors

Electrical

| | |
|-------------------------------|---------|
| Current - Maximum per Contact | 2.5A |
| Voltage - Maximum | 250V DC |

Solder Process Data

| | |
|--|------------------------|
| Duration at Max. Process Temperature (seconds) | 3 |
| Lead-free Process Capability | Wave Capable (TH only) |
| Max. Cycles at Max. Process Temperature | 1 |
| Process Temperature max. C | 235 |

Material Info**Reference - Drawing Numbers**

| | |
|-------------------------|--------------|
| Packaging Specification | PK-87835-001 |
| Product Specification | PS-70246-100 |
| Sales Drawing | SD-87834-025 |

This document was generated on 05/25/2010

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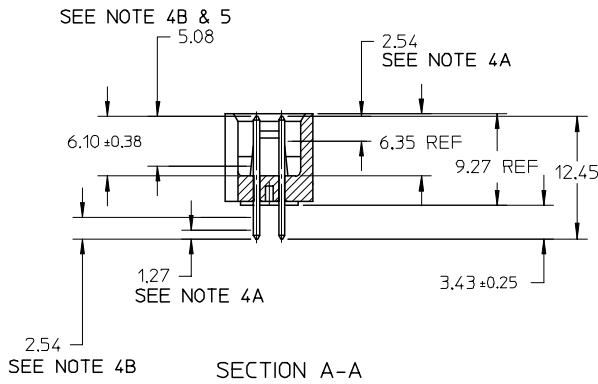
| ASSEMBLY P/N | CKT SIZE | DIM A | DIM B | DIM C |
|--------------|----------|-------|-------|-------|
| 87834-0419 | 04 | 2.54 | 12.70 | 10.16 |
| 87834-0619 | 06 | 5.08 | 15.24 | 12.70 |
| 87834-0819 | 08 | 7.62 | 17.78 | 15.24 |
| 87834-1019 | 10 | 10.16 | 20.32 | 17.78 |
| 87834-1219 | 12 | 12.70 | 22.86 | 20.32 |
| 87834-1419 | 14 | 15.24 | 25.40 | 22.86 |
| 87834-1619 | 16 | 17.78 | 27.94 | 25.40 |
| 87834-2019 | 20 | 22.86 | 33.02 | 30.48 |
| 87834-2419 | 24 | 27.94 | 38.10 | 35.56 |
| 87834-2619 | 26 | 30.48 | 40.64 | 38.10 |
| 87834-3019 | 30 | 35.56 | 45.72 | 43.18 |
| 87834-3419 | 34 | 40.64 | 50.80 | 48.26 |
| 87834-4019 | 40 | 48.26 | 58.42 | 55.88 |
| 87834-4419 | 44 | 53.34 | 63.50 | 60.96 |
| 87834-5019 | 50 | 60.96 | 71.12 | 68.58 |
| 87834-5619 | 56 | 68.58 | 78.74 | 76.20 |
| 87834-6019 | 60 | 73.66 | 83.82 | 81.28 |
| 87834-6419 | 64 | 78.74 | 88.90 | 86.36 |
| 87834-7219 | 72 | 88.90 | 99.06 | 96.52 |

PART NUMBER LEGEND

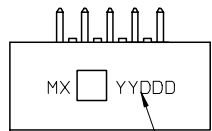
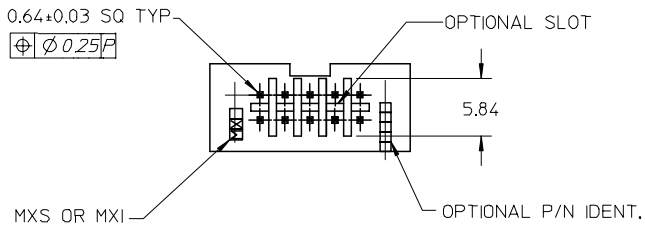
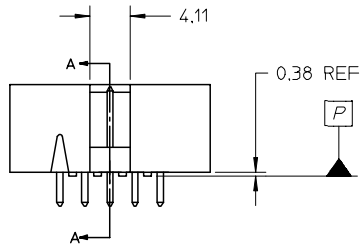
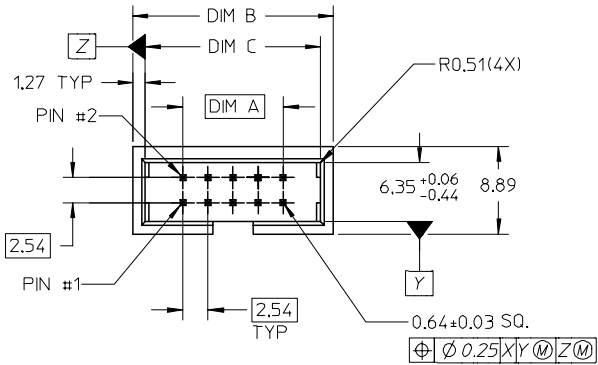
87834 - * * * 1 9
 CKT SIZES

NOTES :

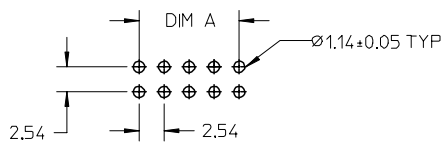
- MATERIAL :
 HOUSING : POLYESTER (PBT), UL94V-0, COLOR: BLACK,
 PIN : COPPER ALLOY.
- PIN PUSHOUT FORCE 0.91 KG MIN.
- PRODUCT SPECIFICATION PS-70246-100 APPLIES.
- WAFER TO BE FLAT WITHIN 0.03MM/CM
- DIMENSIONS FOR PLATING LOCATIONS : A - MEASURE POINT FOR THICKNESS.
 B - MINIMUM COVERAGE.
- GOLD END OF PIN UNLESS OVERALL PLATED.
- FINISH :
 0.13um MIN. GOLD IN CONTACT AREA,
 AND 1.9um MIN. TIN IN SOLDER AREA,
 BOTH OVER 1.27um MIN. NICKEL OVERALL.
- FOR ILLUSTRATION PURPOSE A 10 CKT IS SHOWN.
- OPTIONAL LOCATION FOR MANUFACTURER/YEAR/DAY MARKING IF REQUIRED BY CUSTOMER



SECTION A-A



SEE NOTE 9



RECOMMENDED PCB PATTERN

HSG LASER MARKING
 EC NO: S2005-0536
 DRAWN: LQIAO 2005/01/26
 CHKD: PTLIM 2005/01/26
 APPR: SCLLO 2005/01/27

QUALITY SYMBOLS
 ▽=0
 ▽=0

| GENERAL TOLERANCES (UNLESS SPECIFIED) | |
|---------------------------------------|--------|
| | INCH |
| 4 PLACES | ± --- |
| 3 PLACES | ± --- |
| 2 PLACES | ± 0.20 |
| 1 PLACE | ± --- |
| ANGULAR ± 3 ° | |

| DIMENSION STYLE | |
|-----------------|------------|
| MM ONLY | |
| DRAWN BY | DATE |
| RSHAN | 2003/11/20 |
| CHECKED BY | DATE |
| KCL ING | 2003/12/05 |
| APPROVED BY | DATE |
| SKTOH | 2003/12/06 |
| MATERIAL NO. | |

| SCALE | DESIGN UNITS | THIRD ANGLE PROJECTION |
|---|---------------------|------------------------|
| NTS | METRIC | ☉ □ |
| TITLE C-GRID, SHROUDED WAFER WINDOW, W/O END SLOTS & POLARIZATION PEGS | | |
| MOLEX INCORPORATED | | |
| DOCUMENT NO. SD-87834-025 | SHEET NO. 1 OF 1 | |