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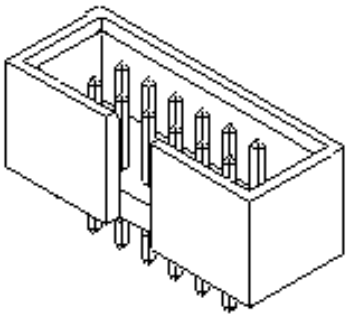
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# PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

**Part Number:** 0878341619
**Status:** Active
**Overview:** cgrid__sl_products
**Description:** 2.54mm (.100") Pitch C-Grid® Header, Dual Row, Low Profile, Vertical, Shrouded, 16 Circuits, 0.13µm (5µ") Gold (Au) Plating, Black, without PCB Locator, without End Window, Center Polarization Slot, Lead-free

**Documents:**

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



*Series image - Reference only*

## 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) | 16 |
| Circuits (maximum) | 16 |
| 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 |

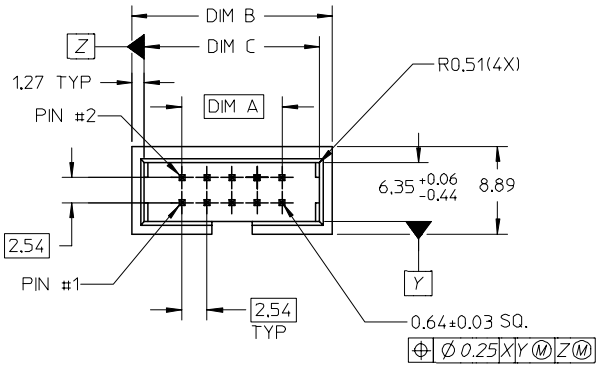
## Material Info

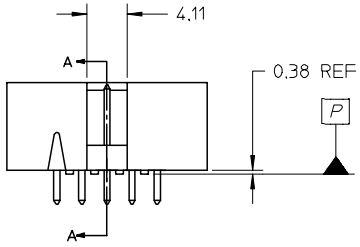
## Reference - Drawing Numbers

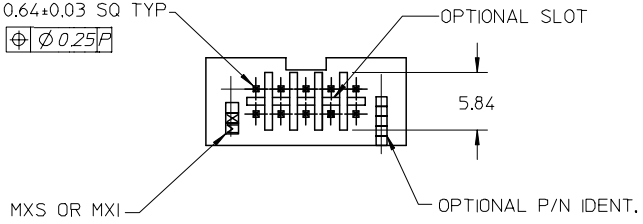
| | |
|---|---|
| Packaging Specification | PK-87835-001 |
| Product Specification | PS-70246-100 |
| Sales Drawing | SD-87834-025 |

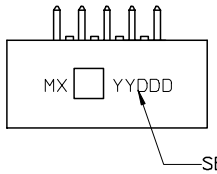
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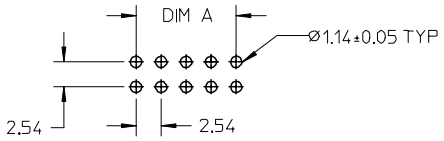
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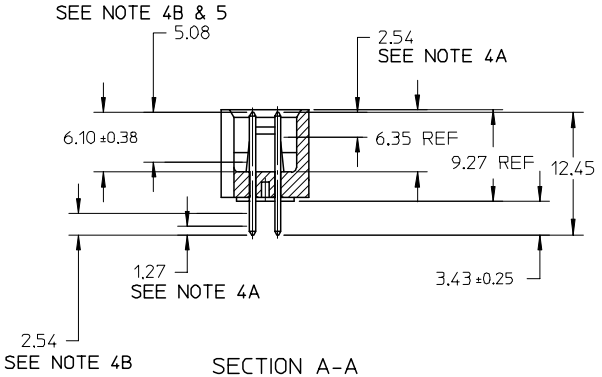




RECOMMENDED PCB PATTERN

PART NUMBER LEGEND

87834 - * * 1 9

CKT SIZES




SECTION A-A

| 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 |

NOTES :

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

HSG LASER MARKING
EC NO: S2005-0536 2005/01/26
DRWN:YLQIAO 2005/01/26
CH'KD:PTLIM 2005/01/27
APPR:SCLOW
DESCRIPTION
REV
A2

QUALITY SYMBOLS
▼=0
▽=0

GENERAL TOLERANCES (UNLESS SPECIFIED)

| | mm | INCH |
|---|---|---|
| 4 PLACES | ± --- | ± --- |
| 3 PLACES | ± --- | ± --- |
| 2 PLACES | ± 0.20 | ± --- |
| 1 PLACE | ± --- | ± --- |
| ANGULAR ± 3 ° | | |

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

DIMENSION STYLE: MM ONLY
SCALE: NTS
DESIGN UNITS: METRIC
THIRD ANGLE PROJECTION

DRAWN BY: RSHAN DATE: 2003/11/20
CHECKED BY: KCLING DATE: 2003/12/05
APPROVED BY: SKTOH DATE: 2003/12/06

TITLE: C-GRID, SHROUDED WAFER WINDOW, W/O END SLOTS & POLARIZATION PEGS

MOLEX INCORPORATED

MATERIAL NO.: SEE TABLE
DOCUMENT NO.: SD-87834-025
SHEET NO.: 1 OF 1

SIZE A3

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