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

Agency Certification

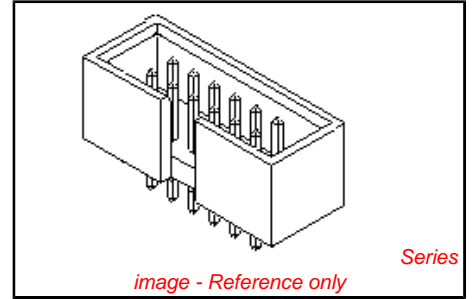
UL E29179

General

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

Physical

Breakaway No
 Circuits (Loaded) 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



<p>EU RoHS ELV and RoHS Compliant REACH SVHC Contains SVHC: No Halogen-Free Status Not Reviewed</p>	<p>China RoHS</p>
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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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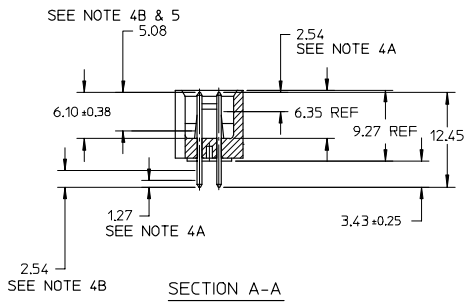
ASSEMBLY P/N	CKT SIZE	DIM A	DIM B	DIM C
87834-0419	04	2.54	12.70	10.16
87834-0619	06	5.08	15.24	12.70
87834-0819	08	7.62	17.78	15.24
87834-1019	10	10.16	20.32	17.78
87834-1219	12	12.70	22.86	20.32
87834-1419	14	15.24	25.40	22.86
87834-1619	16	17.78	27.94	25.40
87834-2019	20	22.86	33.02	30.48
87834-2419	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

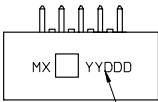
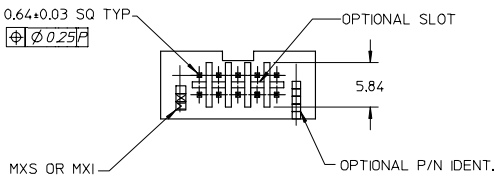
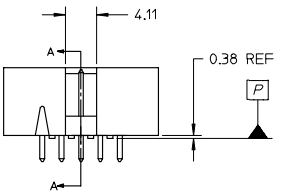
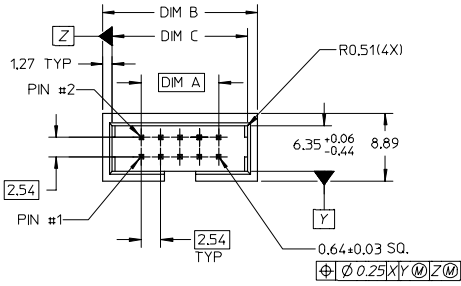
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CKT SIZES

NOTES :

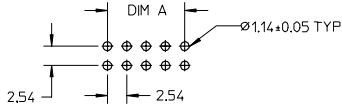
- MATERIAL :
HOUSING : POLYESTER (PBT), UL94V-0, COLOR: BLACK.
PIN : COPPER ALLOY.
- PIN PUSHOUT FORCE 0.91 KG MIN.
- PRODUCT SPECIFICATION PS-70246-100 APPLIES.
- WAFER TO BE FLAT WITHIN 0.03MM/CM
- DIMENSIONS FOR PLATING LOCATIONS : A - MEASURE POINT FOR THICKNESS.
B - MINIMUM COVERAGE.
- GOLD END 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: YL0140 CHKD: PTLIM APPR: SCLIN	QUALITY SYMBOLS ▽=0 ▽=0	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE		SCALE	DESIGN UNITS	THIRD ANGLE PROJECTION
		mm	INCH	MM ONLY	NTS			
A2	DESCRIPTION	4 PLACES	± ---	± ---	DRAWN BY	DATE	TITLE C-GRID, SHROUDED WAFER WINDOW, W/O END SLOTS & POLARIZATION PEGS MOLEX INCORPORATED	SHEET NO. 1 OF 1
		3 PLACES	± ---	± ---	RSHAN	2003/11/20		
		2 PLACES	± 0.20	± ---	CHECKED BY	DATE		
		1 PLACE	± ---	± ---	KCLING	2003/12/05		
		ANGULAR ± 3 °		APPROVED BY		DATE		
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		MATERIAL NO.		SKTOH	2003/12/06	DOCUMENT NO.	SD-87834-025	
SIZE		A3		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION				