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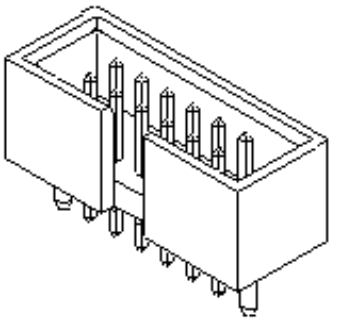
Part Number: 0878342421
Status: Active
Overview: cgrid__sl_products
Description: 2.54mm (.100") Pitch C-Grid® Header, Dual Row, Low Profile, Vertical, Shrouded, PCB Locators, with End Windows, 0.13µm (5µ) Gold (Au) Flash Plating, Nylon Housing, 24 Circuits, Lead-free



Series image - Reference only

Documents:

3D Model
Drawing (PDF)
Product Specification PS-70246-100 (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)	24
Circuits (maximum)	24
Color - Resin	Natural
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	Yes
Material - Plating Mating	Gold
Material - Plating Termination	Tin
Material - Resin	Nylon
Number of Rows	2
Orientation	Vertical
PC Tail Length (in)	0.135 In
PC Tail Length (mm)	3.43 mm
PCB Locator	Yes
PCB Retention	Yes
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)	5
Lead-free Process Capability	Wave Capable (TH only)
Max. Cycles at Max. Process Temperature	1
Process Temperature max. C	265

Material Info

Reference - Drawing Numbers

Packaging Specification	PK-87835-001
Product Specification	PS-70246-100
Sales Drawing	SD-87834-028

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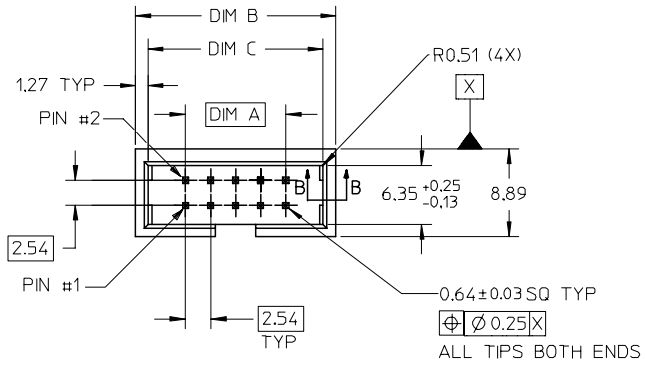
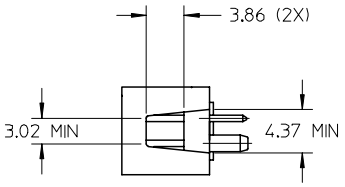
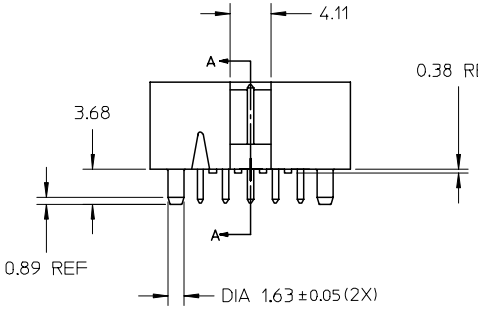
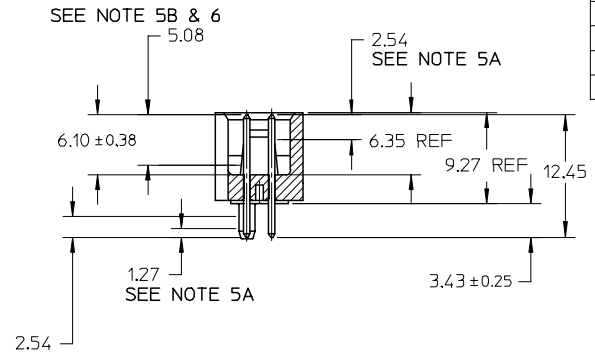
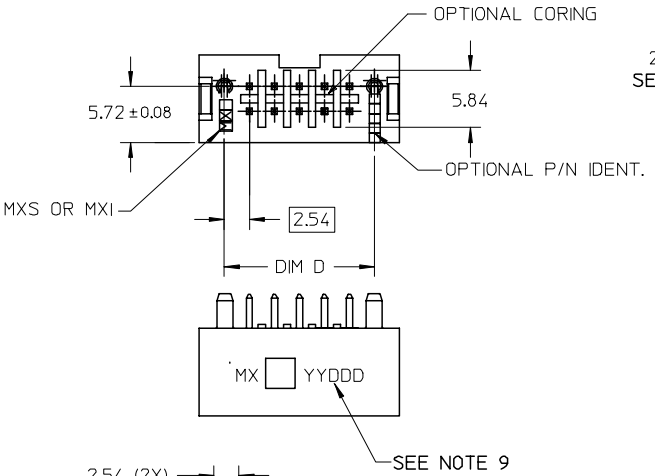


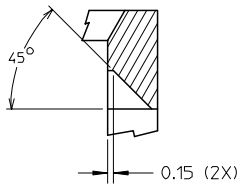




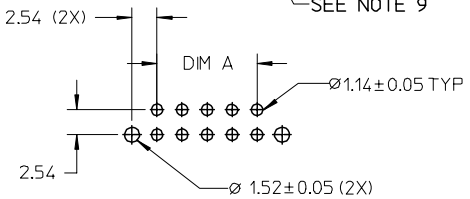




SECTION A-A



SECTION B-B



RECOMMENDED PCB PATTERN

ASSEMBLY P/N	CKT SIZE	DIM A	DIM B	DIM C	DIM D
87834-0421	04	2.54	12.70	10.16	7.62
87834-0621	06	5.08	15.24	12.70	10.16
87834-1021	10	10.16	20.32	17.78	15.24
87834-1221	12	12.70	22.86	20.32	17.78
87834-1421	14	15.24	25.40	22.86	20.32
87834-1621	16	17.78	27.94	25.40	22.86
87834-1821	18	20.32	30.48	27.94	25.40
87834-2021	20	22.86	33.02	30.48	27.94
87834-2421	24	27.94	38.10	35.56	33.02
87834-2621	26	30.48	40.64	38.10	35.56
87834-3021	30	35.56	45.72	43.18	40.64
87834-3421	34	40.64	50.80	48.26	45.72
87834-4021	40	48.26	58.42	55.88	53.34
87834-4421	44	53.34	63.50	60.96	58.42
87834-5021	50	60.96	71.12	68.58	66.04
87834-5621	56	68.58	78.74	76.20	73.66
87834-6021	60	73.66	83.82	81.28	78.74
87834-6421	64	78.74	88.90	86.36	83.82
87834-7221	72	88.90	99.06	96.52	93.98

PART NUMBER LEGEND

87834 - * * 2 1

CKT SIZES

NOTES :

1. MATERIAL :
   HOUSING : NYLON (PA), UL94V-0, COLOR: NATURAL.
   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 FLASH OVER 1.02um MIN.PD/NI
   IN SELECTED AREA AND 2.5um MIN.TIN IN SELECTED AREA 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

OBS P/N
EC NO: S2007-0260
DRWN:SKANG 2006/09/20
CHKD:MLONG 2006/09/20
APPR:SKTOH 2006/09/21
DESCRIPTION
REV B

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: 2003/11/21
CHECKED BY: KCLING DATE: 2003/12/05
APPROVED BY: SKTOH DATE: 2003/12/06
MATERIAL NO.: SEE TABLE

TITLE: C-GRID, SHROUDED WAFER SLOTTED, WITH IN-LINE POLARIZATION PEGS

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DOCUMENT NO.: SD-87834-028
SHEET NO.: 1 OF 1
SIZE: A3

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