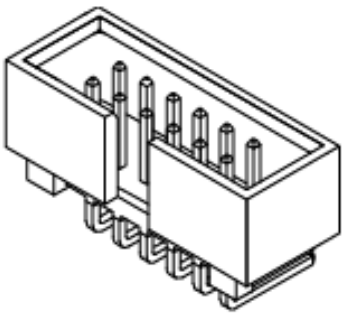
molex
one company > a world of innovation

This document was generated on 05/25/2010

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

Part Number: 0878353442
Status: Active
Overview: cgrid__sl_products
Description: 2.54mm (.100") Pitch C-Grid® Header, Right Angle, Through Hole, Dual Row, Low Profile, Shrouded, 34 Circuits, 0.76µm (30µ") Gold (Au) Selective Plating, Center Polarization Slot, with Two End Slots, Lead-free



Series image - Reference only

Documents:

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

General

Product Family	PCB Headers
Series	87835
Application	Wire-to-Board
Overview	cgrid__sl_products
Product Name	C-Grid®

Physical

Breakaway	No
Circuits (Loaded)	34
Circuits (maximum)	34
Color - Resin	Natural
Durability (mating cycles max)	50
First Mate / Last Break	No
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	Nylon
Number of Rows	2
Orientation	Right Angle
PC Tail Length (in)	0.100 In
PC Tail Length (mm)	2.54 mm
PCB Locator	No
PCB Retention	None
PCB Thickness Recommended (in)	0.062 In
PCB Thickness Recommended (mm)	1.60 mm
Packaging Type	Tray
Pitch - Mating Interface (in)	0.100 In
Pitch - Mating Interface (mm)	2.54 mm
Plating min: Mating (µin)	30
Plating min: Mating (µm)	0.75
Plating min: Termination (µin)	75.2
Plating min: Termination (µm)	1.88
Polarized to Mating Part	Center Slot
Polarized to PCB	No
Shrouded	Fully
Stackable	No
Surface Mount Compatible (SMC)	Yes
Temperature Range - Operating	-55°C to +120°C
Termination Interface: Style	Through Hole

Electrical

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
87835Series

Mates With
.050" pitch ribbon cable connectors

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

Material Info

Reference - Drawing Numbers

Packaging Specification	PK-87835-001
Product Specification	PS-70246-100
Sales Drawing	SD-87835-003

This document was generated on 05/25/2010

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

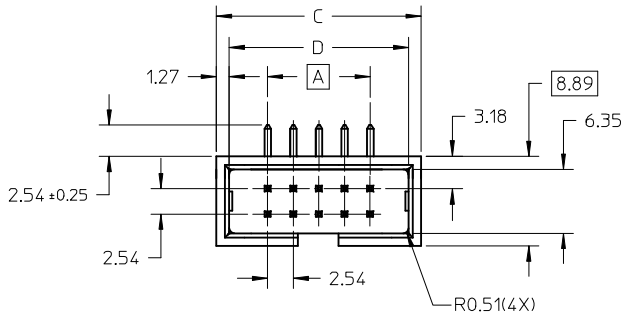
PART NUMBER LEGEND

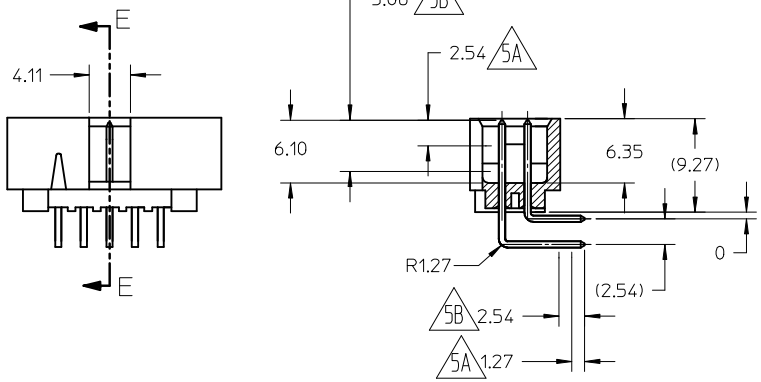
87835-XXXX

CKT SIZE

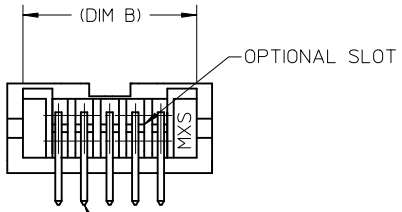
6 PLATING OPTION

PART NUMBER	CKT SIZE	A	B	C	D
87835-0842	08	7.62	14.73	17.78	15.24
87835-1042	10	10.16	17.27	20.32	17.78
87835-1242	12	12.70	19.81	22.86	20.32
87835-1442	14	15.24	22.35	25.40	22.86
87835-1642	16	17.78	24.89	27.94	25.40
87835-2042	20	22.86	29.97	33.02	30.48
87835-2442	24	27.94	35.05	38.10	35.56
87835-2642	26	30.48	37.59	40.64	38.10
87835-3042	30	35.56	42.67	45.72	43.18
87835-3442	34	40.64	47.75	50.80	48.26
87835-4042	40	48.26	55.37	58.42	55.88
87835-4442	44	53.34	60.45	63.50	60.96
87835-5042	50	60.96	68.07	71.12	68.58

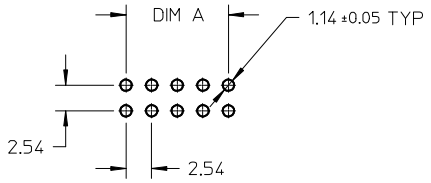




SECTION E-E



7 SOLDER TAIL POSITION



RECOMMENDED PCB PATTERN

NOTES:
1. PIN PUSHOUT FORCE 0.91KG MIN.
2. PIN SOLDERABILITY PER MOLEX SPEC. ES-152
3. PRODUCT SPEC: PS-70246 APPLIES.
4. WAFER TO BE FLAT WITHIN 0.03MM/CM
5. DIMENSIONS FOR PLATING LOCATION : A - MEASURE POINT FOR THICKNESS.
   B - MINIMUM COVERAGE
6. FINISH : 0.76um MIN AU AT CONTACT & 1.91um MIN TIN AT SOLDER TAIL
   OVER 1.27um MIN NICKEL UNDERPLATE OVERALL.
7. SOLDER TAIL POSITION WILL BE INSPECTED BY GAUGE.

UPDATES DRAWING
EC NO: S2009-0778 2009/04/09
DRWN:YMCHONG 2009/04/09
CH'KD:ATSEE 2009/04/09
APPR:MLONG 2009/04/09
DESCRIPTION
REV
A1

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

		DATE
DRAWN BY	RSHAN	2003/11/14
CHECKED BY	KCLING	2003/11/19
APPROVED BY	SKTOH	2003/11/26

TITLE: C-GRID, R/A, SHROUDED HEADER WITH 2 END SLOTS

MOLEX INCORPORATED

MATERIAL NO.: SEE TABLE
DOCUMENT NO.: SD-87835-003
SHEET NO.: 1 OF 11
SIZE: A3

THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION