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PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

Part Number:	**0702471454**
Status:	**Active**
Overview:	cgrid__sl_products
Description:	2.54mm (.100") Pitch C-Grid® Header, Dual Row, Low Profile, Right Angle, Shrouded, 14 Circuits, 0.13µm (5µ") Gold (Au) Selective Plating, Tin (Sn) PC Tail Plating

Documents:

3D Model
Drawing (PDF)
Product Specification PS-70246 (PDF)

Product Specification PS-70246-100 (PDF)
RoHS Certificate of Compliance (PDF)

Series
image - Reference only
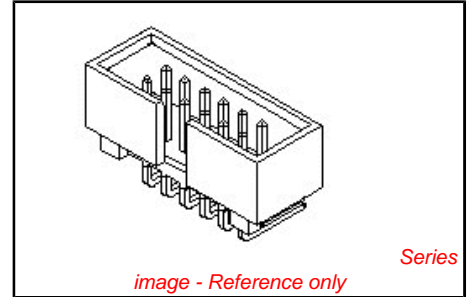
Agency Certification

CSA	LR19980
UL	E29179

General

Product Family	PCB Headers
Series	70247
Application	Wire-to-Board
Overview	cgrid__sl_products
Product Name	C-Grid®

Physical

Breakaway	No
Circuits (Loaded)	14
Circuits (maximum)	14
Color - Resin	Black
Durability (mating cycles max)	50
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	Right Angle
PC Tail Length (in)	0.120 In
PC Tail Length (mm)	3.05 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)	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
Shrouded	Fully
Stackable	No
Temperature Range - Operating	-55°C to +120°C

EU RoHS
ELV and RoHS Compliant
REACH SVHC
Contains SVHC: No
Halogen-Free Status
Not Halogen-Free

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
70247Series

Mates With
70450 SL™ Crimp Housing, 70058 SL™ Crimp Terminal

Termination Interface: Style	Through Hole

Electrical

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

Solder Process Data

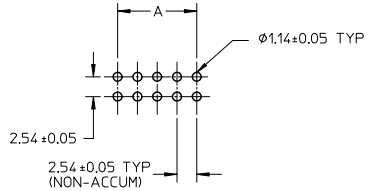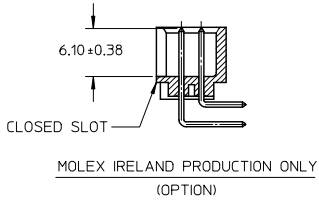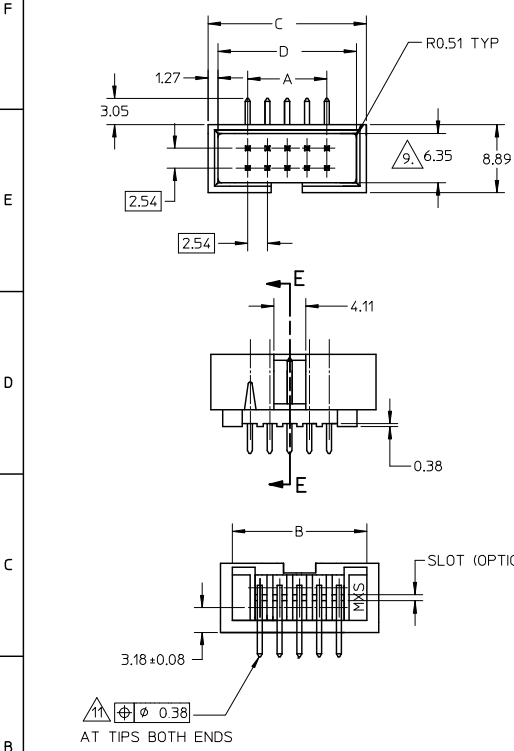| Duration at Max. Process Temperature (seconds)	10
Lead-free Process Capability	Wave Capable (TH only)
Max. Cycles at Max. Process Temperature	1
Process Temperature max. C	265

Material Info

Reference - Drawing Numbers

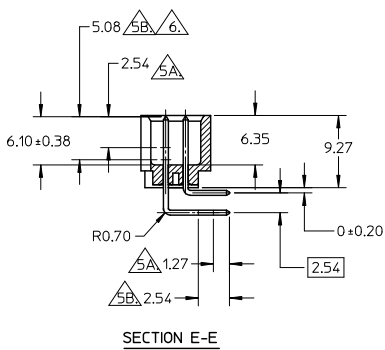| Packaging Specification	PK-87835-001
Product Specification	PS-70246, PS-70246-100
Sales Drawing	SDA-70247-**00-04

This document was generated on 05/24/2010

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10 9 8 7 6 5 4 3 2 1

C
D
1.27
A
3.05
R0.51 TYP
9. 6.35
8.89
2.54
2.54

E
4.11
0.38
E

B
SLOT (OPTIONAL)
MXS
3.18±0.08
11 ⊕ ⌀ 0.38
AT TIPS BOTH ENDS

6.10±0.38
CLOSED SLOT
MOLEX IRELAND PRODUCTION ONLY
(OPTION)

5.08 5B 6.
2.54 5A
6.10±0.38
6.35
9.27
R0.70
0±0.20
5A 1.27
5B 2.54
2.54
SECTION E-E

A
⌀1.14±0.05 TYP
2.54±0.05
2.54±0.05 TYP
(NON-ACCUM)
RECOMMENDED PCB HOLE LAYOUT

LEGEND:
70247 – * * * *
CKT SIZE
7 PLATING OPT.

QUALITY SYMBOLS
F/A =0
F/V =0
F/P =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	DATE
JENNIFER	1987/09/21
CHECKED BY	DATE
MLAI	1987/09/21
APPROVED BY	DATE
MLONG	2009/11/10

TITLE
C-GRID, SHROUDED HEADER
R/A
(SLOTTED W/O STANDOFFS)

molex MOLEX INCORPORATED

MATERIAL NO.
SEE TABLE

DOCUMENT NO.
SDA-70247-**00-04

SHEET NO.
1 OF 2

SIZE A3

tb_frame_A3_P_AM_T
Rev. F 2009/06/18

NOTES:

1. PIN PUSHOUT FORCE (.9072KG)/2LBS MIN.
2. PIN SOLDERABILITY PER MOLEX SPEC. ES-152.
3. PRODUCT SPEC: PS-70246 APPLIES.
4. WAFER TO BE FLAT WITHIN .003 MM/MM.
5. DIMENSIONS FOR PLATING LOCATION:

   5A. MEASURE POINT FOR THICKNESS

   5B. MINIMUM COVERAGE

6. GOLD END OF PIN UNLESS OVERALL PLATED.

7. FINISH: - 51 : 15 MICRO INCHES MIN GOLD PLATE ON CONTACT AND
              75 MICRO INCHES MIN TIN PLATE ON SOLDERTAIL
              BOTH OVER 50 MICRO INCHES MIN NICKEL OVERALL.

          - 52 : 30 MICRO INCHES MIN GOLD PLATE ON CONTACT AND
               75 MICRO INCHES MIN TIN PLATE ON SOLDERTAIL
               BOTH OVER 50 MICRO INCHES MIN NICKEL OVERALL.

          - 54 : 5 MICRO INCHES MIN GOLD PLATE ON CONTACT AND
               75 MICRO INCHES MIN TIN PLATE ON SOLDERTAIL.
   BOTH OVER 50 MICRO INCHES MIN NICKEL OVERALL.

8. CHECK WITH SALES OFFICE FOR AVAILABILITY.

9. DIM AT THE CENTRE OF THE SHROUDED WALL SHALL BE 5.91MM MIN.
   THIS SPEC IS VALID FOR ALL CKT SIZE.

10. MATERIAL:
    HSG: PBT, GLASS FILLED, UL94V-0, COLOUR: BLACK
          (SPEC NO: 89992-0028)
    PIN: 0.64MM SQ. PIN PHOSPHOR BRONZE.

11. SOLDERTAIL POSITION TOLERANCE TO BE GAUGED.

PART NUMBER	CKT SIZE	DIM A	DIM B	DIM C	DIM D
70247-08**	08	7.62	14.73	17.78	15.24
70247-10**	10	10.16	17.27	20.32	17.78
70247-12**	12	12.70	19.81	22.86	20.32
70247-14**	14	15.24	22.35	25.40	22.86
70247-16**	16	17.78	24.89	27.94	25.40
70247-20**	20	22.86	29.97	33.02	30.48
70247-24**	24	27.94	35.05	38.10	35.56
70247-26**	26	30.48	37.59	40.64	38.10
70247-30**	30	35.56	42.67	45.72	43.18
70247-34**	34	40.64	47.75	50.80	48.26
70247-40**	40	48.26	55.37	58.42	55.88
70247-44**	44	53.34	60.45	63.50	60.96
70247-48**	48	58.42	65.53	68.58	66.04
70247-50**	50	60.96	68.07	71.12	68.58
70247-56**	56	68.58	75.69	78.74	76.20
70247-60**	60	73.66	80.77	83.82	81.28
70247-64**	64	78.74	85.85	88.90	86.36
70247-72**	72	88.90	96.01	99.06	96.52

REVISE DIMENSIONS
EC NO: S2010-0369
DRWN:SKANG 2009/10/27
CHKD:ATSEE 2009/11/09
APPR:MLONG 2009/11/11

QUALITY SYMBOLS

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: JENNIFER   DATE: 1987/09/21
CHECKED BY: MLAI   DATE: 1987/09/21
APPROVED BY: MLONG   DATE: 2009/11/10

TITLE: C-GRID, SHROUDED HEADER R/A (SLOTTED W/O STANDOFFS)

molex MOLEX INCORPORATED

MATERIAL NO.: SEE TABLE
DOCUMENT NO.: SDA-70247-**00-04
SHEET NO.: 2 OF 2
SIZE: A3

tb_frame_A3_P_AM_T
Rev. F 2009/06/18