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Part Number: [0713085446](#)
Status: **Active**
Description: 2.54mm (.100") Pitch C-Grid® Header, Surface Mount, Dual Row, Vertical, 46 Circuits, 1.50µm (59µ") Minimum Bright Tin (Sn) Over Nickel (Ni) Plating, without PCB Locator Pegs

Documents:

[3D Model](#) [Product Specification PS-71308 \(PDF\)](#)
[Drawing \(PDF\)](#) [RoHS Certificate of Compliance \(PDF\)](#)

Agency Certification

CSA LR19980
 UL E29179

General

Product Family PCB Headers
 Series [71308](#)
 Application Board-to-Board, Wire-to-Board
 Product Name C-Grid®

Physical

Breakaway Yes
 Circuits (Loaded) 46
 Circuits (maximum) 46
 Color - Resin Black
 Durability (mating cycles max) 50
 Flammability 94V-0
 Glow-Wire Compliant No
 Lock to Mating Part None
 Material - Metal Phosphor Bronze
 Material - Plating Mating Tin
 Material - Plating Termination Tin
 Material - Resin High Temperature Thermoplastic
 Number of Rows 2
 Orientation Vertical
 PCB Locator Yes
 PCB Retention Yes
 Packaging Type Tube
 Pitch - Mating Interface (in) 0.100 In
 Pitch - Mating Interface (mm) 2.54 mm
 Polarized to PCB No
 Shrouded No
 Stackable Yes
 Temperature Range - Operating -40°C to +105°C
 Termination Interface: Style Surface Mount

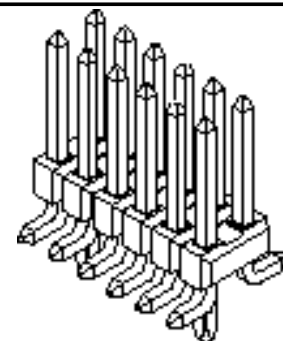
Electrical

Current - Maximum per Contact 3A
 Voltage - Maximum 250V

Solder Process Data

Duration at Max. Process Temperature (seconds) 40
 Lead-free Process Capability Reflow Capable (SMT only)
 Max. Cycles at Max. Process Temperature 3
 Process Temperature max. C 260

Material Info



*Series
image - Reference only*

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
[71308Series](#)

Reference - Drawing Numbers

Product Specification
Sales Drawing

PS-71308, RPS-71308-001
SD-71308-001

This document was generated on 04/08/2010

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OPTIONAL
PICK AND PLACE CAP
SEE NOTES 4 & 9.

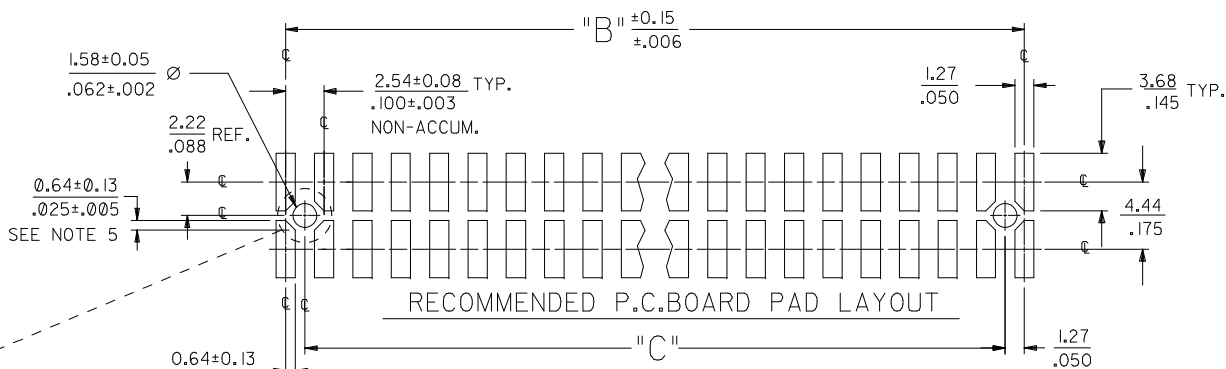


DIM. "M"	DIM. "G"
6.10 .240	10.67 .420
8.13 .320	12.70 .500

PEG OPTIONS

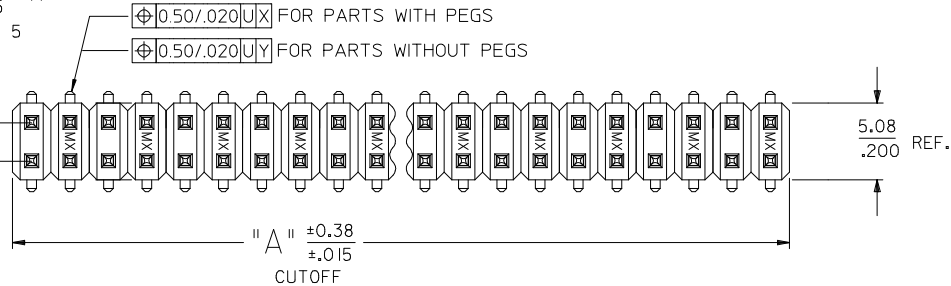


P.C. BOARD PAD LAYOUT
AT ENDS FOR NO PEG VERSION.

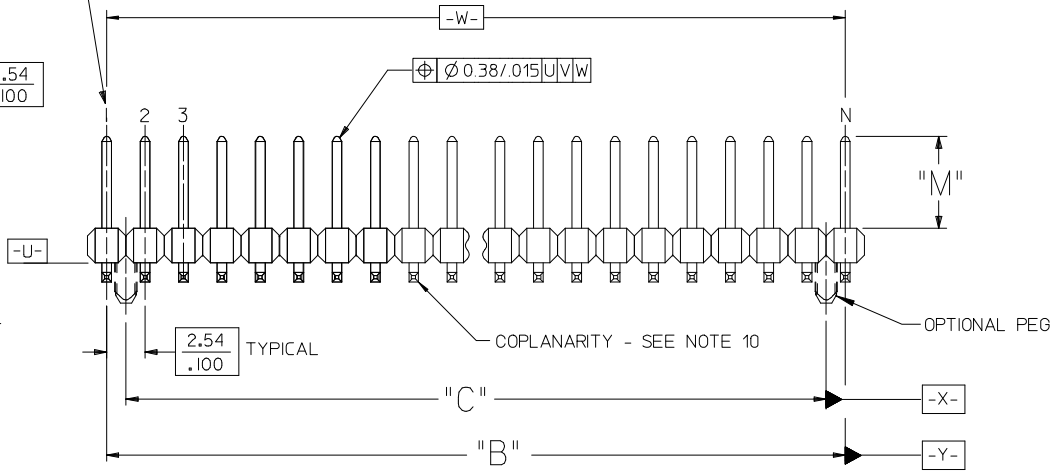
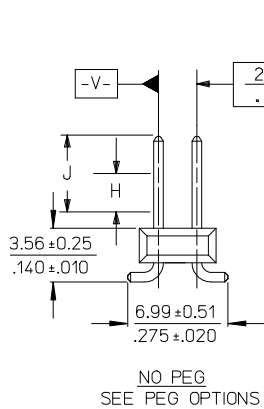


RECOMMENDED P.C. BOARD PAD LAYOUT

ROW "A"
ROW "B"



USED TO LOCATE VOIDED CIRCUITS



- NOTES:
- MATERIALS: INSULATOR: GLASS FILLED LIQUID CRYSTAL POLYMER (LCP), UL94 V-0, COLOR: BLACK
TERMINAL: COPPER ALLOY
 - FINISH:
59 TIN - 0.00150/.000059 MINIMUM BRIGHT TIN OVER NICKEL OVERALL.
150 TIN - 0.00381/.000150 MINIMUM BRIGHT TIN OVER NICKEL OVERALL.
15 GOLD - 0.00038/.000015 MINIMUM GOLD IN SELECT AREA OVER 0.00191/.000075 MINIMUM TIN IN SELECT AREA OVER NICKEL OVERALL.
30 GOLD - 0.00076/.000030 MINIMUM GOLD IN SELECT AREA OVER 0.00191/.000075 MINIMUM TIN IN SELECT AREA OVER NICKEL OVERALL.
50 GOLD - 0.00127/.000050 MINIMUM GOLD IN SELECT AREA OVER 0.00254/.000100 MINIMUM TIN IN SELECT AREA OVER NICKEL OVERALL.
* THE PRIMARY SHIPPING CARTON WILL BE LABELED "COMPLIANT TO RoHS DIRECTIVE 2002/95/EC AND ELV ANNEX II OF DIRECTIVE 2000/53/EC". CARTONS WITHOUT THIS LABEL MAY CONTAIN PRODUCT WITH LEAD.
 - PART TO CONFORM TO PS-71308.
 - PACKAGING (SEE CHARTS):
BULK: PER PK-70873-0353
TUBES: PER PK-70873-0041.
71308-82** IN TUBES: PER PK-70873-042.
TUBES W/ VAC CAPS: PER PK-70873-0691
TAPE AND REEL W/ VAC CAPS: PER PK-70873-0805.
SEE SHEET 3 FOR TAPE & REEL PRODUCT WITH SHALLOW POCKET REQUIREMENTS.

- TYP. DIMENSIONS FOR LANDS SURROUNDING HOLES FOR RETENTION PEGS.
- PIN SOLERABILITY PER MOLEX SPEC. ES-152.
- SEE SHEETS 2-5 FOR CHARTED DIMS., PART/EDP NO'S, AND VOIDED CIRCUITS.
- PIN PUSHOUT FORCE: 3 LBS. MINIMUM.
- PICK-N-PLACE CAPS WILL BE PLACED SO THAT VACUUM PICK UP AREA WILL BE IN CENTER OF PART.
- COPLANARITY FOR CIRCUIT SIZES UP TO 40 IS 0.15 MM/.006 INCH. FOR CIRCUIT SIZES 42 AND LARGER, CONTACT MOLEX SALES DEPARTMENT.
- THIS PART CONFORMS TO CLASS B REQUIREMENTS OF COSMETIC SPECIFICATION PS-45499-002.

REV	DESCRIPTION	QUALITY SYMBOLS	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE		SCALE	DESIGN UNITS	THIRD ANGLE PROJECTION
			mm	INCH	MM/IN	DATE			
K3	12CKT TAPE & REEL EC NO: UCP2009-2465 DRWN:KIPPER 2009/08/04 CHKD:SSOUSEK 2009/08/07 APPR:FSMITH 2009/08/10	=0 ∇=0	4 PLACES	± ---	± ---	KMS	1999/10/15	SALES ASSY INSULATOR DUAL ROW SMT W/BREAK-OFF .025SQ PIN GULLWING .100 MOLEX MOLEX INCORPORATED	SHEET NO. 1 OF 6
			3 PLACES	± ---	± .005	CHECKED BY	DATE		
			2 PLACES	± 0.13	± .010	KMS	1999/10/15		
			1 PLACE	± 0.25	± ---	APPROVED BY	DATE		
			ANGULAR ±1/2°						
			DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SEE TABLES		DOCUMENT NO. SD-71308-001		
			THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION						

PEG OPTION

NO PEG VERSION NO PEG VERSION LONG PEG VERSION (.130") SHORT PEG VERSION (.055")

Table with columns: PACKAGING SEE NOTE 4, SHT 1; 4-6 CKT; BULK; TAPE-N-REEL W/VAC CAPS; N/A; 4-8 CKT; TAPE-N-REEL W/VAC CAPS; BULK; BULK; BULK; TAPE-N-REEL W/VAC CAPS; BULK; BULK; TAPE-N-REEL W/ VAC CAPS

Table with dimensions: DIM. M=0.25 MM; DIM. H; DIM. J; DIM. A; DIM. B; DIM. C; EDP NUMBER

Main table with 100 rows and 20 columns. Columns include DIM. A, DIM. B, DIM. C, EDP NUMBER, and CKTS. Rows are numbered 04 to 100.

59 TIN PLATE ASSEMBLIES

SEE SHEET 1 EC NO: UCP2009-2465 DRWN:KIPPER 2009/08/04 CHKD:SSOUSEK 2009/08/07 APPR:FSMLTH 2009/08/10

QUALITY SYMBOLS: ▽=0, ▽=0

GENERAL TOLERANCES (UNLESS SPECIFIED): 4 PLACES ±.005, 3 PLACES ±.005, 2 PLACES ±0.13, 1 PLACE ±0.25, ANGULAR ±1/2°

DIMENSION STYLE: MM/IN. DRAWN BY: KMS, DATE: 1999/10/15. CHECKED BY: KMS, DATE: 1999/10/15. APPROVED BY: KMS, DATE: 1999/10/15.

SCALE: 1:1. DESIGN UNITS: INCH. THIRD ANGLE PROJECTION. TITLE: SALES ASSY INSULATOR DUAL ROW SMT W/BREAK-OFF .025SQ PIN GULLWING .100. MOLEX INCORPORATED. SD-71308-001. SHEET NO. 6 OF 6.