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Part Number: [0879111014](#)
Status: **Active**
Overview: [cgrid_sl_products](#)
Description: 2.54mm (.100") Pitch C-Grid® Header, Right Angle, Through Hole, 10 Circuits, 2.50µm (98µ") Tin (Sn) Plating, Tube Packaging, Lead-free

Documents:

[Drawing \(PDF\)](#) [RoHS Certificate of Compliance \(PDF\)](#)
[Product Specification PS-87920-019 \(PDF\)](#)

Agency Certification

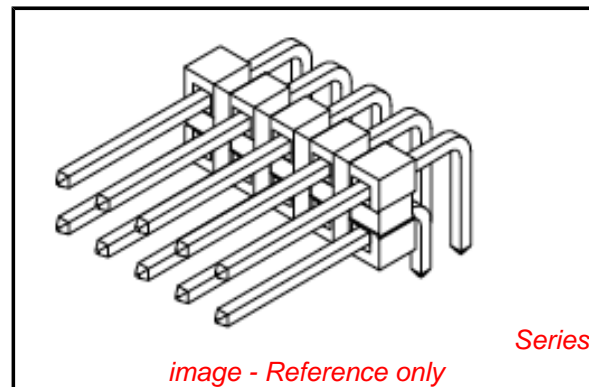
UL E29179

General

Product Family PCB Headers
 Series [87911](#)
 Application Board-to-Board, Wire-to-Board
 Overview [cgrid_sl_products](#)
 Product Name C-Grid®

Physical

Breakaway Yes
 Circuits (Loaded) 10
 Circuits (maximum) 10
 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 - Metal Brass
 Material - Plating Mating Tin
 Material - Plating Termination Nickel
 Material - Resin High Temperature Thermoplastic
 Number of Rows 2
 Orientation Right Angle
 PC Tail Length (in) 0.157 In
 PC Tail Length (mm) 4.00 mm
 PCB Locator No
 PCB Retention None
 PCB Thickness Recommended (in) 0.062 In
 PCB Thickness Recommended (mm) 1.60 mm
 Packaging Type Tube
 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) 98
 Plating min: Mating (µm) 2.50
 Polarized to Mating Part No
 Polarized to PCB No
 Shrouded No
 Stackable No
 Surface Mount Compatible (SMC) Yes
 Temperature Range - Operating -55°C to +105°C



EU RoHS

ELV and RoHS Compliant
REACH SVHC Contains SVHC: No
Halogen-Free Status

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

[87911Series](#)

Mates With

7859 Shunts, C-Grid® PCB Receptacles like 71850, SL™ IDT Housing like 70450

Termination Interface: Style Through Hole

Electrical

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

Solder Process Data

Duration at Max. Process Temperature (seconds) 10
Lead-free Process Capability Wave Capable (TH only)
Max. Cycles at Max. Process Temperature 3
Process Temperature max. C 260

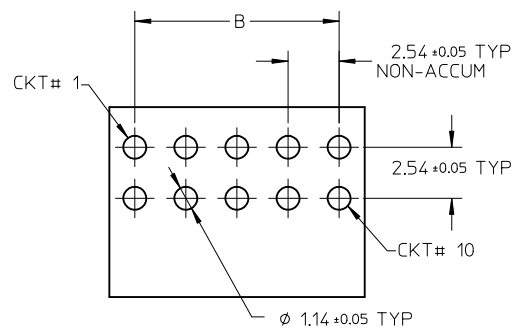
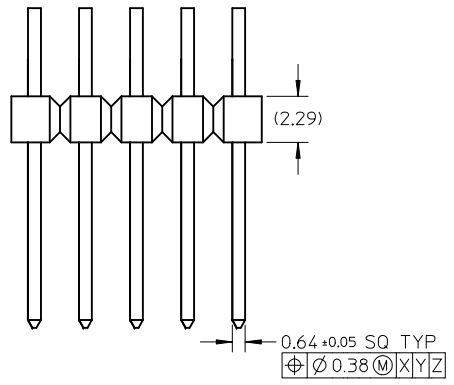
Material Info

Reference - Drawing Numbers

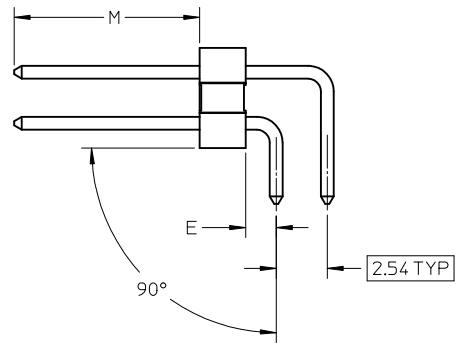
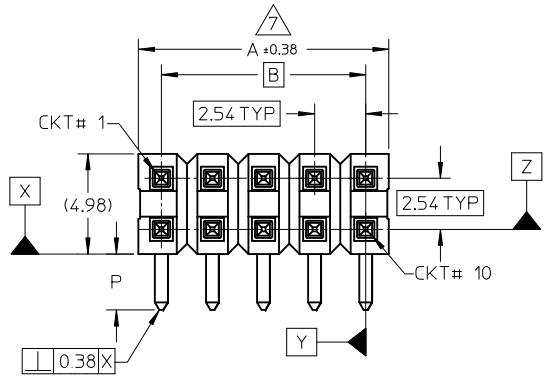
Packaging Specification PK-89990-520
Product Specification PS-87920-019
Sales Drawing SD-87911-046

This document was generated on 05/25/2010

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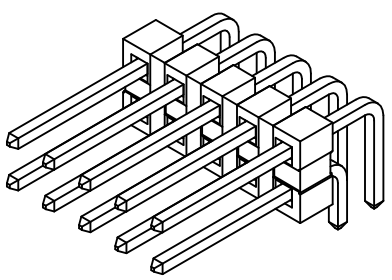
RECOMMENDED PCB LAYOUT



NOTES

1. MATERIAL:
 - HSG: LCP, GLASS-FILLED, UL94V-0 COLOR: BLACK
 - PIN: 0.64MM SQ, COPPER ALLOY
2. PLATING TYPE:
 - (1) : GOLD FLASH OVER
1.25µm MIN. NICKEL OVERALL.
 - (2) : 0.05 µm MIN. GOLD PLATE ON CONTACT AND
2.50 µm MIN. TIN ON SOLDER TAIL OVER
1.25 µm MIN. NICKEL OVERALL.
 - (3) : 0.38 µm MIN. GOLD PLATE ON CONTACT AND
2.00 µm MIN. TIN ON SOLDER TAIL OVER
1.25 µm MIN. NICKEL OVERALL.
 - (4) : 0.75 µm MIN. GOLD PLATE ON CONTACT AND
2.00 µm MIN. TIN ON SOLDER TAIL OVER
1.25 µm MIN. NICKEL OVERALL.
 - (5) : 2.50 µm MIN. TIN IN SELECTED AREA OVER
1.25 µm MIN. NICKEL OVERALL.

3. PRODUCT SPECIFICATION: PS-87920-019
4. PACKAGING TYPE: SEE TABLE
5. PACKAGING SPECIFICATION:
 - (1) TUBE: PK-89990-519
 - (2) TUBE: PK-89990-520
 - (3) TRAY: PK-89990-489
6. WAFER TO BE FLAT WITHIN 0.003 mm/mm
7. IRREGULAR CIRCUIT CUTOFF WITHIN BREAKAWAY SECTION IS PERMISSIBLE. CUTTING OR CHIPPING OF THE MAIN BODY IS NOT ACCEPTABLE
8. RECOMMENDED PCB THICKNESS IS 1.60mm±0.10
9. THE ABOVE CKT 10 IS FOR ILLUSTRATION PURPOSE ONLY
10. TUBE LENGTH AS PER STANDARD 560mm



0081-CN, +87911614, 1615 & 2414, 2415 EC NO: S2010-0752 DRW: NATSEE 2010/03/12 CHK: DSKANG 2006/11/20 APPR: MLONG 2010/04/24	QUALITY SYMBOLS	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE		SCALE	DESIGN UNITS	THIRD ANGLE PROJECTION	
	$\nabla_{F_A} = 0$ $\nabla_{F_C} = 0$ $\nabla_{F_D} = 0$	mm	INCH	MM ONLY		NTS	METRIC		
		4 PLACES ± --- ± ---	3 PLACES ± --- ± ---	DRAWN BY	DATE	TITLE			
		2 PLACES ± 0.2 ± ---	1 PLACE ± --- ± ---	CHECKED BY	DATE	CUSTOM HEADER 2.54MM PITCH C-GRID HDR, SINGLE WAFER, RIGHT ANGLE			
	ANGULAR ± 3 °		APPROVED BY	DATE	MOLEX INCORPORATED				
	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		MATERIAL NO.	DATE					DOCUMENT NO.
A5	SEE TABLE		2006/11/20		SD-87911-046		1 OF 2		
	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION								

CKT SIZE	DIMENSION		PART NO.				DIMENSION					
	A	B	TRAY	TUBE	CKT SIZE	VOID POSITION	KINK POSITION	PLATING TYPE	PACKAGING SPECIFICATION	MATING END M	SOLDER TAIL P	E
02	2.54	-	-	87911-1000	10	-	-	5	1	2.80	2.90	1.52
04	5.08	2.54	-	87911-1014	10	-	-	5	1	8.00	4.00	1.96
06	7.62	5.08	-	87911-1015	10	-	-	5	1	7.50	4.00	1.96
08	10.16	7.62	-	87911-1600	16	-	-	5	1	4.00	4.50	1.52
10	12.70	10.16	-	87911-1614	16	-	-	5	1	3.35	2.34	1.52
12	15.24	12.70	-	87911-1615	16	-	-	4	1	3.35	2.34	1.52
14	17.78	15.24	-	87911-2414	24	-	-	5	1	3.35	2.34	1.52
16	20.32	17.78	-	87911-2415	24	-	-	4	1	3.35	2.34	1.52
18	22.86	20.32	-	87911-3614	36	-	-	5	3	2.60	5.13	1.77
20	25.40	22.86	-									
22	27.94	25.40	-									
24	30.48	27.94	-									
26	33.02	30.48	-									
28	35.56	33.02	-									
30	38.10	35.56	-									
32	40.64	38.10	-									
34	43.18	40.64	-									
36	45.72	43.18	-									
38	48.26	45.72	-									
40	50.80	48.26	-									
42	53.34	50.80	-									
44	55.88	53.34	-									
46	58.42	55.88	-									
48	60.96	58.42	-									
50	63.50	60.96	-									

QUALITY SYMBOLS 	GENERAL TOLERANCES (UNLESS SPECIFIED) mm INCH 4 PLACES ± --- ± --- 3 PLACES ± --- ± --- 2 PLACES ± 0.2 ± --- 1 PLACE ± --- ± --- ANGULAR ± 3 °		DIMENSION STYLE MM ONLY DRAWN BY: SKL IM01 DATE: 2006/10/30 CHECKED BY: CWLAM DATE: 2006/11/20 APPROVED BY: KWLEE DATE: 2006/11/20		SCALE NTS	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION	
	TITLE CUSTOM HEADER 2.54MM PITCH C-GRID HDR, SINGLE WAFER,RIGHT ANGLE							
	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS					MOLEX INCORPORATED		SHEET NO. 2 OF 2
	SEE TABLE				DOCUMENT NO. SD-87911-046		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION	