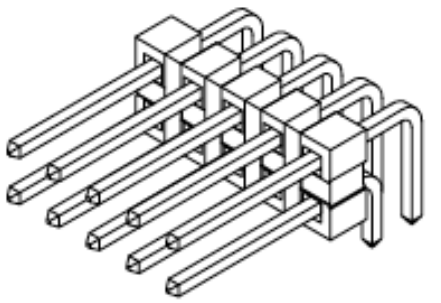
This document was generated on 05/25/2010

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

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



Series image - Reference only

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
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
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

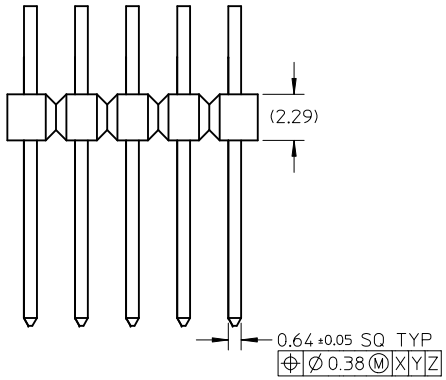
Material Info

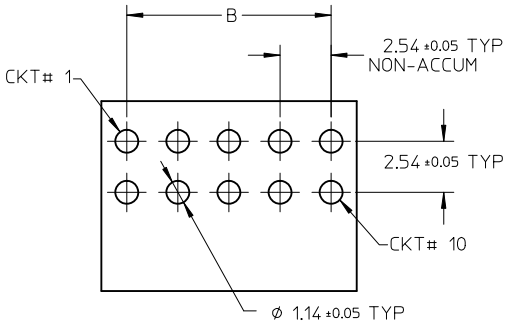
Reference - Drawing Numbers

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

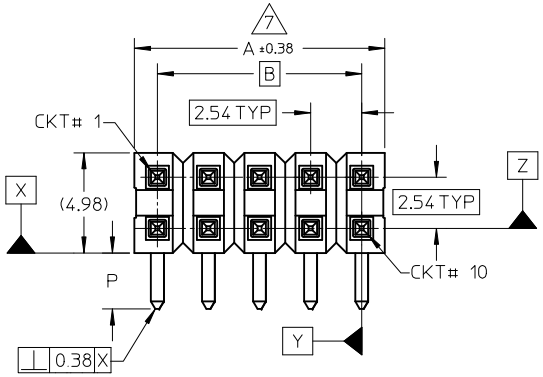
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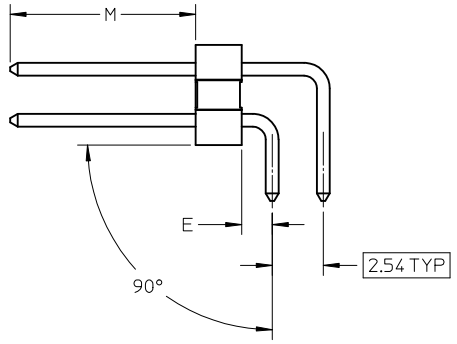
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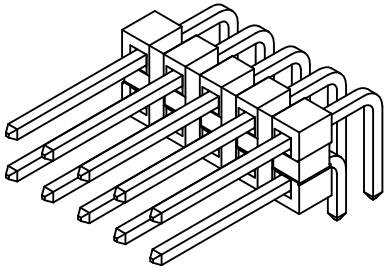
RECOMMENDED PCB LAYOUT





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 SOLDERTAIL OVER
   1.25 μm MIN. NICKEL OVERALL.
   (3) : 0.38 μm MIN. GOLD PLATE ON CONTACT AND
   2.00 μm MIN. TIN ON SOLDERTAIL OVER
   1.25 μm MIN. NICKEL OVERALL.
   (4) : 0.75 μm MIN. GOLD PLATE ON CONTACT AND
   2.00 μm MIN. TIN ON SOLDERTAIL 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, +879111614, 1615 & 2414, 2415
EC NO: S2010-0752
DRWN:ATSEE 2010/03/12
CHKD:SKANG 2006/11/20
APPR:MLONG 2010/04/24
DESCRIPTION
REV
A5

QUALITY SYMBOLS
FA=0
FC=0
FP=0

GENERAL TOLERANCES (UNLESS SPECIFIED)	mm	INCH
4 PLACES	± ---	± ---
3 PLACES	± ---	± ---
2 PLACES	± 0.2	± ---
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	SKLIM01	2006/10/30
CHECKED BY	CWLAM	2006/11/20
APPROVED BY	KWLEE	2006/11/20

TITLE: CUSTOM HEADER 2.54MM PITCH C-GRID HDR, SINGLE WAFER,RIGHT ANGLE

MOLEX INCORPORATED

MATERIAL NO.: SEE TABLE
DOCUMENT NO.: SD-87911-046
SHEET NO.: 1 OF 2
SIZE: A3

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

CKT SIZE	DIMENSION	
	A	B
02	2.54	-
04	5.08	2.54
06	7.62	5.08
08	10.16	7.62
10	12.70	10.16
12	15.24	12.70
14	17.78	15.24
16	20.32	17.78
18	22.86	20.32
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

PART NO.		CKT SIZE	VOID POSITION	KINK POSITION	PLATING TYPE	PACKAGING SPECIFICATION	DIMENSION		
TRAY	TUBE						MATING END M	SOLDER TAIL P	E
-	87911-1000	10	-	-	5	1	2.80	2.90	1.52
-	87911-1014	10	-	-	5	1	8.00	4.00	1.96
-	87911-1015	10	-	-	5	1	7.50	4.00	1.96
-	87911-1600	16	-	-	5	1	4.00	4.50	1.52
-	87911-1614	16	-	-	5	1	3.35	2.34	1.52
-	87911-1615	16	-	-	4	1	3.35	2.34	1.52
-	87911-2414	24	-	-	5	1	3.35	2.34	1.52
-	87911-2415	24	-	-	4	1	3.35	2.34	1.52
87911-3614	-	36	-	-	5	3	2.60	5.13	1.77

0081-CN, +879111614, 1615 & 2414, 2415
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DRWN:ATSEE 2010/03/12
CHKD:SKANG 2006/11/20
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DESCRIPTION
REV
A5

QUALITY SYMBOLS
$\sqrt{E_A}=0$
$\sqrt{E_C}=0$
$\sqrt{E_P}=0$

GENERAL TOLERANCES (UNLESS SPECIFIED)

	mm	INCH
4 PLACES	± ---	± ---
3 PLACES	± ---	± ---
2 PLACES	± 0.2	± ---
1 PLACE	± ---	± ---
ANGULAR ± 3 °		

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DESIGN UNITS: METRIC
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DRAWN BY: SKLIM01 DATE: 2006/10/30
CHECKED BY: CWLAM DATE: 2006/11/20
APPROVED BY: KWLEE DATE: 2006/11/20

TITLE: CUSTOM HEADER 2.54MM PITCH C-GRID HDR, SINGLE WAFER,RIGHT ANGLE

MOLEX INCORPORATED

MATERIAL NO.: SEE TABLE
DOCUMENT NO.: SD-87911-046
SHEET NO.: 2 OF 2
SIZE: A3

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