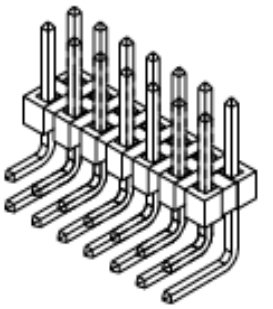
This document was generated on 05/25/2010

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

Part Number: 0879112011
Status: Active
Overview: cgrid__sl_products
Description: 2.54mm (.100") Pitch C-Grid® Header, Right Angle, Through Hole, 20 Circuits, 0.38µm (15µ") Gold (Au) Selective Plating, Tube Packaging, Lead-free



Series image - Reference only

Documents:
3D Model
Drawing (PDF)
RoHS Certificate of Compliance (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)	20
Circuits (maximum)	20
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	Copper Alloy
Material - Plating Mating	Gold
Material - Plating Termination	Tin
Material - Resin	High Temperature Thermoplastic
Number of Rows	2
Orientation	Right Angle
PC Tail Length (in)	0.125 In
PC Tail Length (mm)	3.18 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)	15
Plating min: Mating (µm)	0.38
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
Not Reviewed
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
87911Series

Mates With
7859 Shunts. C-Grid® PCB Receptacles like 71850. SL™ IDT Housing like 70450

Termination Interface: Style	Through Hole

Electrical

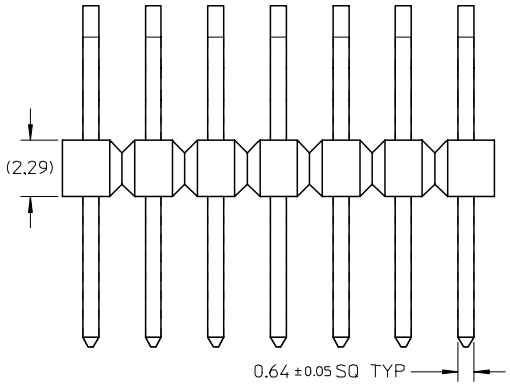
Current - Maximum per Contact	3A
Voltage - Maximum	250V

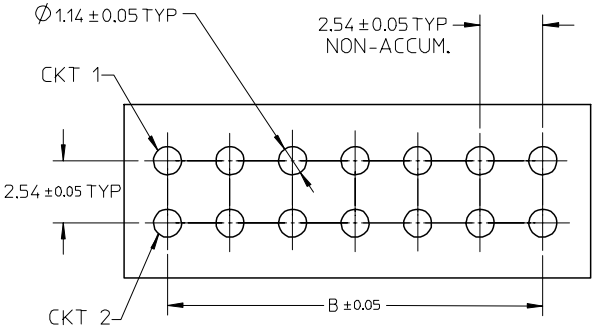
Material Info

Reference - Drawing Numbers

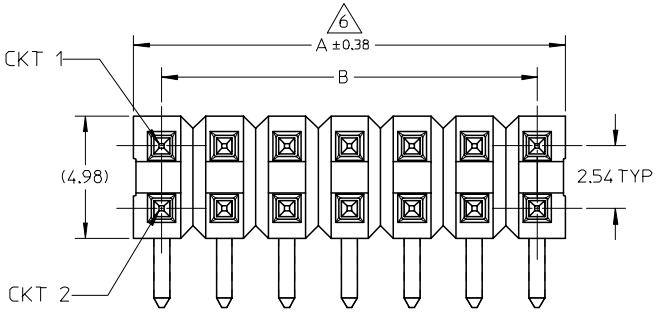
Sales Drawing	SD-87911-027

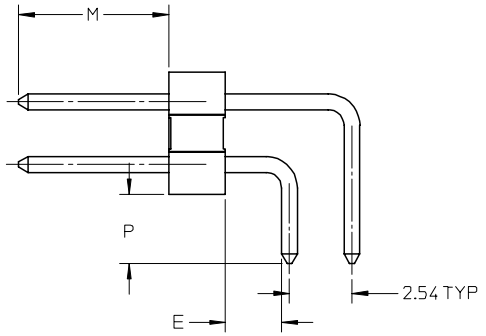
This document was generated on 05/25/2010
PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

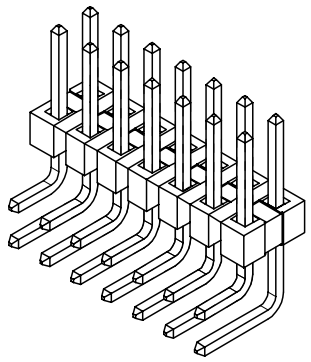




RECOMMENDED P.C.B. LAYOUT







NOTE:

1. MATERIAL:
   HOUSING: - LCP, GLASS FILLED, UL94V-0
   COLOR: BLACK
   TERMINAL: - COPPER ALLOY, 0.64MM SQ
2. PLATING TYPE:
   1) 15μin MIN. GOLD PLATE ON CONTACT AND
      75μin MIN. TIN ON SOLDERTAIL OVER
      50μin MIN. NICKEL OVERALL.
   2) 30μin MIN. GOLD PLATE ON CONTACT AND
      75μin MIN. TIN ON SOLDERTAIL OVER
      50μin MIN. NICKEL OVERALL.
   3) 100μin MIN. TIN OVERALL.
      50μin MIN. NICKEL OVERALL.
3. THE ABOVE 14 CKT SHOWN IS FOR ILLUSTRATION ONLY..
4. PIN PUSHOUT FORCE: 1KG MIN. IN EITHER DIRECTION
5. PART TO BE PACKED IN TUBE.
6. IRREGULAR CIRCUIT CUTOFF WITHIN BREAKAWAY SECTION IS PERMISSIBLE. CUTTING OR CHIPPING OF THE MAIN BODY IS NOT ACCEPTABLE
7. RECOMMENDED PCB THICKNESS = 1.60±0.10mm
8. PRODUCT SPECIFICATION: PS-87920-019
9. PACKAGING SPECIFICAITON: PK-89990-519

REVISED
EC NO: S2007-0544 2006/12/13
DRWN:SKLIM01 2006/12/19
CHKD:CWLAM 2006/12/27
APPR:KWLEE
DESCRIPTION
REV
B

QUALITY SYMBOLS
▼=0
Ⓒ=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
DRAWN BY	YLQIAO
DATE	2005/01/17
CHECKED BY	PTLIM
DATE	2005/01/25
APPROVED BY	SCLOW
DATE	2005/01/25
MATERIAL NO.	SEE TABLE
TITLE	CUSTOM HEADER C-GRID DUAL ROW HEADER RIGHT ANGLE THROUGH HOLE
	MOLEX INCORPORATED
DOCUMENT NO.	SD-87911-027
SHEET NO.	1 OF 4
SIZE	A3

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

PART NO.	CKT SIZE	VOID POSITION	PLATING TYPE	DIMENSION				
				A	B	M	P	E
87911-0411	4	-----	1	5.08	2.54	6.10	3.18	2.27
87911-0412	4	-----	2	5.08	2.54	6.10	3.18	2.27
87911-0413	4	-----	3	5.08	2.54	6.10	3.18	2.27
87911-0611	6	-----	1	7.62	5.08	6.10	3.18	2.27
87911-0612	6	-----	2	7.62	5.08	6.10	3.18	2.27
87911-0613	6	-----	3	7.62	5.08	6.10	3.18	2.27
87911-0811	8	-----	1	10.16	7.62	6.10	3.18	2.27
87911-0812	8	-----	2	10.16	7.62	6.10	3.18	2.27
87911-0813	8	-----	3	10.16	7.62	6.10	3.18	2.27
87911-0800	8	-----	1	10.16	7.62	6.10	2.79	2.29
87911-1011	10	-----	1	12.70	10.16	6.10	3.18	2.27
87911-1012	10	-----	2	12.70	10.16	6.10	3.18	2.27
87911-1013	10	-----	3	12.70	10.16	6.10	3.18	2.27
87911-1211	12	-----	1	15.24	12.70	6.10	3.18	2.27
87911-1212	12	-----	2	15.24	12.70	6.10	3.18	2.27
87911-1213	12	-----	3	15.24	12.70	6.10	3.18	2.27
87911-1411	14	-----	1	17.78	15.24	6.10	3.18	2.27
87911-1412	14	-----	2	17.78	15.24	6.10	3.18	2.27
87911-1413	14	-----	3	17.78	15.24	6.10	3.18	2.27
87911-1611	16	-----	1	20.32	17.78	6.10	3.18	2.27
87911-1612	16	-----	2	20.32	17.78	6.10	3.18	2.27
87911-1613	16	-----	3	20.32	17.78	6.10	3.18	2.27

PART NO.	CKT SIZE	VOID POSITION	PLATING TYPE	DIMENSION				
				A	B	M	P	E
87911-1811	18	-----	1	22.86	20.32	6.10	3.18	2.27
87911-1812	18	-----	2	22.86	20.32	6.10	3.18	2.27
87911-1813	18	-----	3	22.86	20.32	6.10	3.18	2.27
87911-2011	20	-----	1	25.40	22.86	6.10	3.18	2.27
87911-2012	20	-----	2	25.40	22.86	6.10	3.18	2.27
87911-2013	20	-----	3	25.40	22.86	6.10	3.18	2.27
87911-2211	22	-----	1	27.94	25.40	6.10	3.18	2.27
87911-2212	22	-----	2	27.94	25.40	6.10	3.18	2.27
87911-2213	22	-----	3	27.94	25.40	6.10	3.18	2.27
87911-2411	24	-----	1	30.48	27.94	6.10	3.18	2.27
87911-2412	24	-----	2	30.48	27.94	6.10	3.18	2.27
87911-2413	24	-----	3	30.48	27.94	6.10	3.18	2.27
87911-2611	26	-----	1	33.02	30.48	6.10	3.18	2.27
87911-2612	26	-----	2	33.02	30.48	6.10	3.18	2.27
87911-2613	26	-----	3	33.02	30.48	6.10	3.18	2.27
87911-2811	28	-----	1	35.56	33.02	6.10	3.18	2.27
87911-2812	28	-----	2	35.56	33.02	6.10	3.18	2.27
87911-2813	28	-----	3	35.56	33.02	6.10	3.18	2.27
87911-3011	30	-----	1	38.10	35.56	6.10	3.18	2.27
87911-3012	30	-----	2	38.10	35.56	6.10	3.18	2.27
87911-3013	30	-----	3	38.10	35.56	6.10	3.18	2.27

REVISED
EC NO: S2007-0544 2006/12/13
DRWN:SKLIM01 2006/12/19
CHKD:CWLAM 2006/12/27
APPR:KWLEE
DESCRIPTION
REV
B

QUALITY SYMBOLS
▼=0
▽C=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

DRAWN BY: YLQIAO DATE: 2005/01/17
CHECKED BY: PTLIM DATE: 2005/01/25
APPROVED BY: SCLOW DATE: 2005/01/25

TITLE
CUSTOM HEADER
C-GRID DUAL ROW HEADER
RIGHT ANGLE THROUGH HOLE

molex MOLEX INCORPORATED

MATERIAL NO.: SEE TABLE
DOCUMENT NO.: SD-87911-027
SHEET NO.: 2 OF 4

SIZE A3

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

PART NO.	CKT SIZE	VOID POSITION	PLATING TYPE	DIMENSION				
				A	B	M	P	E
87911-3211	32	-----	1	40.64	38.10	6.10	3.18	2.27
87911-3212	32	-----	2	40.64	38.10	6.10	3.18	2.27
87911-3213	32	-----	3	40.64	38.10	6.10	3.18	2.27
87911-3411	34	-----	1	43.18	40.64	6.10	3.18	2.27
87911-3412	34	-----	2	43.18	40.64	6.10	3.18	2.27
87911-3413	34	-----	3	43.18	40.64	6.10	3.18	2.27
87911-3611	36	-----	1	45.72	43.18	6.10	3.18	2.27
87911-3612	36	-----	2	45.72	43.18	6.10	3.18	2.27
87911-3613	36	-----	3	45.72	43.18	6.10	3.18	2.27
87911-3811	38	-----	1	48.26	45.72	6.10	3.18	2.27
87911-3812	38	-----	2	48.26	45.72	6.10	3.18	2.27
87911-3813	38	-----	3	48.26	45.72	6.10	3.18	2.27
87911-4011	40	-----	1	50.80	48.26	6.10	3.18	2.27
87911-4012	40	-----	2	50.80	48.26	6.10	3.18	2.27
87911-4013	40	-----	3	50.80	48.26	6.10	3.18	2.27
87911-4211	42	-----	1	53.34	50.80	6.10	3.18	2.27
87911-4212	42	-----	2	53.34	50.80	6.10	3.18	2.27
87911-4213	42	-----	3	53.34	50.80	6.10	3.18	2.27
87911-4411	44	-----	1	55.88	53.34	6.10	3.18	2.27
87911-4412	44	-----	2	55.88	53.34	6.10	3.18	2.27
87911-4413	44	-----	3	55.88	53.34	6.10	3.18	2.27

PART NO.	CKT SIZE	VOID POSITION	PLATING TYPE	DIMENSION				
				A	B	M	P	E
87911-4611	46	-----	1	58.42	55.88	6.10	3.18	2.27
87911-4612	46	-----	2	58.42	55.88	6.10	3.18	2.27
87911-4613	46	-----	3	58.42	55.88	6.10	3.18	2.27
87911-4811	48	-----	1	60.96	58.42	6.10	3.18	2.27
87911-4812	48	-----	2	60.96	58.42	6.10	3.18	2.27
87911-4813	48	-----	3	60.96	58.42	6.10	3.18	2.27
87911-5011	50	-----	1	63.50	60.96	6.10	3.18	2.27
87911-5012	50	-----	2	63.50	60.96	6.10	3.18	2.27
87911-5013	50	-----	3	63.50	60.96	6.10	3.18	2.27
87911-5211	52	-----	1	66.04	63.50	6.10	3.18	2.27
87911-5212	52	-----	2	66.04	63.50	6.10	3.18	2.27
87911-5213	52	-----	3	66.04	63.50	6.10	3.18	2.27
87911-5411	54	-----	1	68.58	66.04	6.10	3.18	2.27
87911-5412	54	-----	2	68.58	66.04	6.10	3.18	2.27
87911-5413	54	-----	3	68.58	66.04	6.10	3.18	2.27
87911-5611	56	-----	1	71.12	68.58	6.10	3.18	2.27
87911-5612	56	-----	2	71.12	68.58	6.10	3.18	2.27
87911-5613	56	-----	3	71.12	68.58	6.10	3.18	2.27
87911-5811	58	-----	1	73.66	71.12	6.10	3.18	2.27
87911-5812	58	-----	2	73.66	71.12	6.10	3.18	2.27
87911-5813	58	-----	3	73.66	71.12	6.10	3.18	2.27

REVISED
EC NO: S2007-0544 2006/12/13
DRWN:SKLIM01 2006/12/19
CHKD:CWLAM 2006/12/27
APPR:KWLEE
DESCRIPTION
REV
B

QUALITY SYMBOLS
▼=0
▽C=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

DRAWN BY: YLQIAO DATE: 2005/01/17
CHECKED BY: PTLIM DATE: 2005/01/25
APPROVED BY: SCLOW DATE: 2005/01/25

TITLE
CUSTOM HEADER
C-GRID DUAL ROW HEADER
RIGHT ANGLE THROUGH HOLE

molex MOLEX INCORPORATED

MATERIAL NO.: SEE TABLE
DOCUMENT NO.: SD-87911-027
SHEET NO.: 3 OF 4

SIZE A3

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PART NO.	CKT SIZE	VOID POSITION	PLATING TYPE	DIMENSION				
				A	B	M	P	E
87911-6011	60	-----	1	76.20	73.66	6.10	3.18	2.27
87911-6012	60	-----	2	76.20	73.66	6.10	3.18	2.27
87911-6013	60	-----	3	76.20	73.66	6.10	3.18	2.27
87911-6211	62	-----	1	78.74	76.20	6.10	3.18	2.27
87911-6212	62	-----	2	78.74	76.20	6.10	3.18	2.27
87911-6213	62	-----	3	78.74	76.20	6.10	3.18	2.27
87911-6411	64	-----	1	81.28	78.74	6.10	3.18	2.27
87911-6412	64	-----	2	81.28	78.74	6.10	3.18	2.27
87911-6413	64	-----	3	81.28	78.74	6.10	3.18	2.27
87911-6611	66	-----	1	83.82	81.28	6.10	3.18	2.27
87911-6612	66	-----	2	83.82	81.28	6.10	3.18	2.27
87911-6613	66	-----	3	83.82	81.28	6.10	3.18	2.27
87911-6811	68	-----	1	86.36	83.82	6.10	3.18	2.27
87911-6812	68	-----	2	86.36	83.82	6.10	3.18	2.27
87911-6813	68	-----	3	86.36	83.82	6.10	3.18	2.27
87911-7011	70	-----	1	88.90	86.36	6.10	3.18	2.27
87911-7012	70	-----	2	88.90	86.36	6.10	3.18	2.27
87911-7013	70	-----	3	88.90	86.36	6.10	3.18	2.27
87911-7211	72	-----	1	91.44	88.90	6.10	3.18	2.27
87911-7212	72	-----	2	91.44	88.90	6.10	3.18	2.27
87911-7213	72	-----	3	91.44	88.90	6.10	3.18	2.27

PART NO.	CKT SIZE	VOID POSITION	PLATING TYPE	DIMENSION				
				A	B	M	P	E
87911-7411	74	-----	1	93.98	91.44	6.10	3.18	2.27
87911-7412	74	-----	2	93.98	91.44	6.10	3.18	2.27
87911-7413	74	-----	3	93.98	91.44	6.10	3.18	2.27
87911-7611	76	-----	1	96.52	93.98	6.10	3.18	2.27
87911-7612	76	-----	2	96.52	93.98	6.10	3.18	2.27
87911-7613	76	-----	3	96.52	93.98	6.10	3.18	2.27
87911-7811	78	-----	1	99.06	96.52	6.10	3.18	2.27
87911-7812	78	-----	2	99.06	96.52	6.10	3.18	2.27
87911-7813	78	-----	3	99.06	96.52	6.10	3.18	2.27
87911-8011	80	-----	1	101.60	99.06	6.10	3.18	2.27
87911-8012	80	-----	2	101.60	99.06	6.10	3.18	2.27
87911-8013	80	-----	3	101.60	99.06	6.10	3.18	2.27

REVISED
EC NO: S2007-0544 2006/12/13
DRWN:SKLIM01 2006/12/19
CHKD:CWLAM 2006/12/27
APPR:KWLEE
DESCRIPTION
REV
B

QUALITY SYMBOLS
▼=0
▽C=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

DRAWN BY: YLQIAO DATE: 2005/01/17
CHECKED BY: PTLIM DATE: 2005/01/25
APPROVED BY: SCLOW DATE: 2005/01/25

TITLE
CUSTOM HEADER
C-GRID DUAL ROW HEADER
RIGHT ANGLE THROUGH HOLE

molex MOLEX INCORPORATED

MATERIAL NO.: SEE TABLE
DOCUMENT NO.: SD-87911-027
SHEET NO.: 4 OF 4
SIZE: A3

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