

**PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION**

**Part Number:** [0015910140](#)  
**Status:** **Active**  
**Description:** 2.54mm (.100") Pitch C-Grid® Header, Surface Mount, Dual Row, Vertical, 14 Circuits, 0.38µm (15µ") Gold (Au) Selective Plating

**Documents:**

<a href="#">3D Model</a>	<a href="#">Product Specification PS-71308 (PDF)</a>
<a href="#">Packaging Specification (PDF)</a>	<a href="#">RoHS Certificate of Compliance (PDF)</a>
<a href="#">Drawing (PDF)</a>	

**Agency Certification**

CSA	LR19980
UL	E29179

**General**

Product Family	PCB Headers
Series	<a href="#">71308</a>
Application	Board-to-Board, Wire-to-Board
Product Name	C-Grid®

**Physical**

Breakaway	Yes
Circuits (Loaded)	14
Circuits (maximum)	14
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	Gold
Material - Plating Termination	Tin
Material - Resin	High Temperature Thermoplastic
Number of Rows	2
Orientation	Vertical
PCB Locator	No
PCB Retention	None
Packaging Type	Tube
Pitch - Mating Interface (in)	0.100 In
Pitch - Mating Interface (mm)	2.54 mm
Plating min: Mating (µin)	15.2
Plating min: Mating (µm)	0.38
Plating min: Termination (µin)	80
Plating min: Termination (µm)	2
Polarized to Mating Part	No
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)	5
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*Series  
image - Reference only*

**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](mailto: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

Lead-free Process Capability	Reflow Capable (SMT only)
Max. Cycles at Max. Process Temperature	1
Process Temperature max. C	260

**Material Info**

Old Part Number	A713080114N
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**Reference - Drawing Numbers**

Product Specification	PS-71308, RPS-71308-001
Sales Drawing	SD-71308-001

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OPTIONAL  
PICK AND PLACE CAP  
SEE NOTES 4 & 9.

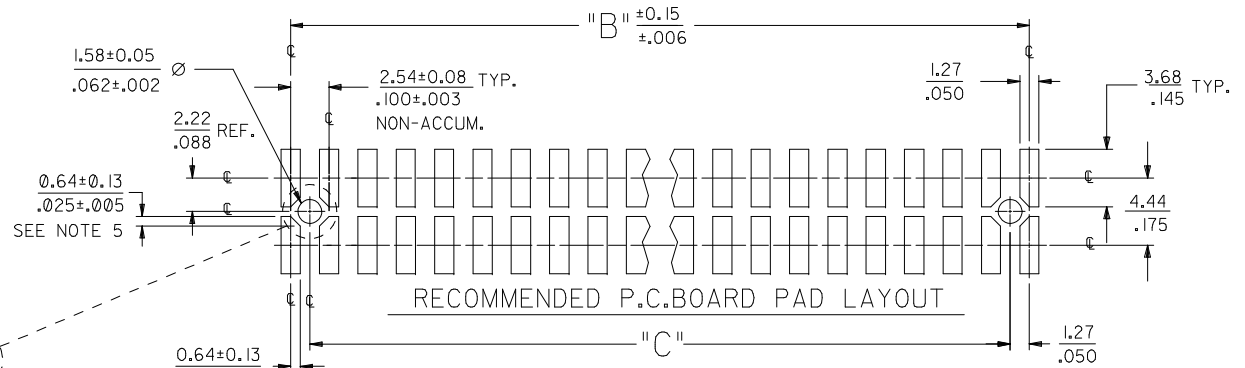


DIM. "M"	DIM. "G"
6.10 .240	10.67 .420
8.13 .320	12.70 .500

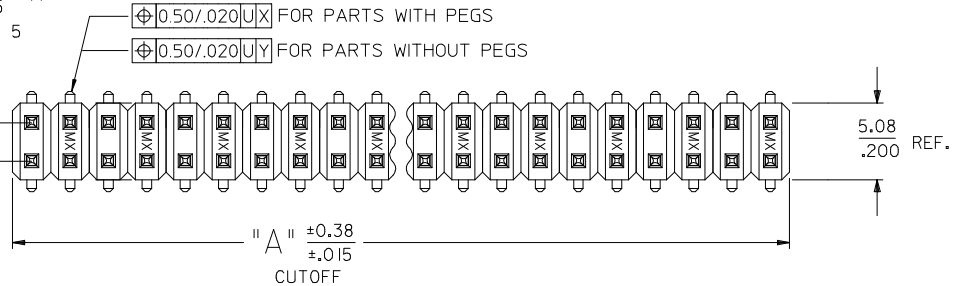
PEG OPTIONS



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



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 - 0.00150/0.00059 MINIMUM BRIGHT TIN OVER NICKEL OVERALL.  
150 TIN - 0.00381/0.00150 MINIMUM BRIGHT TIN OVER NICKEL OVERALL.  
15 GOLD - 0.00038/0.00015 MINIMUM GOLD IN SELECT AREA OVER 0.00191/0.00075 MINIMUM TIN IN SELECT AREA OVER NICKEL OVERALL.  
30 GOLD - 0.00076/0.00030 MINIMUM GOLD IN SELECT AREA OVER 0.00191/0.00075 MINIMUM TIN IN SELECT AREA OVER NICKEL OVERALL.  
50 GOLD - 0.00127/0.00050 MINIMUM GOLD IN SELECT AREA OVER 0.00254/0.00100 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/0.006 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
K3	

QUALITY SYMBOLS
▽=0
▽=0

GENERAL TOLERANCES (UNLESS SPECIFIED)	
mm	INCH
4 PLACES ± ---	± ---
3 PLACES ± ---	± .005
2 PLACES ± 0.13	± .010
1 PLACE ± 0.25	± ---
ANGULAR ± 1/2°	

DIMENSION STYLE	
MM/IN	
DRAWN BY	DATE
KMS	1999/10/15
CHECKED BY	DATE
KMS	1999/10/15
APPROVED BY	DATE
KMS	1999/10/15
MATERIAL NO.	
SEE TABLES	
SIZE C	

SCALE	DESIGN UNITS	THIRD ANGLE PROJECTION
	INCH	
TITLE		
SALES ASSY INSULATOR DUAL ROW SMT W/BREAK-OFF .025SQ PIN GULLWING .100		
MOLEX MOLEX INCORPORATED		
DOCUMENT NO.		SHEET NO.
SD-71308-001		1 OF 6
THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION		



IN TAPE AND REEL WITH SHALLOW POCKET TAPE										BULK / IN TUBES		
PACKAGING SEE NOTE 4, SHT 1		4-8 CKT	TAPE-N-REEL W/ VAC CAPS	TAPE-N-REEL W/ VAC CAPS						BULK	BULK	
		10-100 CKT	TAPE-N-REEL W/ VAC CAPS	TAPE-N-REEL W/ VAC CAPS						TUBES	TUBES	
DIM. M ±0.25 MM			6.10 (.240)	6.10 (.240)						8.13 (.320)	13.59 (.535)	
PLATING			30 GOLD	15 GOLD						150 TIN	150 TIN	
DIM. H			2.54 (.100)	2.54 (.100)						4.57 (.180)	4.57 (.180)	
DIM. J			5.08 (.200)	5.08 (.200)						7.11 (.280)	7.11 (.280)	
CKTS	DIM. A		DIM. B		EDP NUMBER	EDP NUMBER				EDP NUMBER	EDP NUMBER	CKTS
	MM	IN	MM	IN								
04	5.08	.200	2.54	.100								04
06	7.62	.300	5.08	.200		015-91-6068						06
08	10.16	.400	7.62	.300		015-91-6088						08
10	12.70	.500	10.16	.400		015-91-6108				713088010	71308-8210	10
12	15.24	.600	12.70	.500								12
14	17.78	.700	15.24	.600	015-91-6148							14
16	20.32	.800	17.78	.700						713088016		16
18	22.86	.900	20.32	.800								18
20	25.40	1.000	22.86	.900								20
22	27.94	1.100	25.40	1.000								22
24	30.48	1.200	27.94	1.100								24
26	33.02	1.300	30.48	1.200								26
28	35.56	1.400	33.02	1.300								28
30	38.10	1.500	35.56	1.400								30
32	40.64	1.600	38.10	1.500								32
34	43.18	1.700	40.64	1.600								34
36	45.72	1.800	43.18	1.700								36
38	48.26	1.900	45.72	1.800								38
40	50.80	2.000	48.26	1.900								40
42	53.34	2.100	50.80	2.000								42
44	55.88	2.200	53.34	2.100								44
46	58.42	2.300	55.88	2.200								46
48	60.96	2.400	58.42	2.300								48
50	63.50	2.500	60.96	2.400								50
52	66.04	2.600	63.50	2.500								52
54	68.58	2.700	66.04	2.600								54
56	71.12	2.800	68.58	2.700								56
58	73.66	2.900	71.12	2.800								58
60	76.20	3.000	73.66	2.900								60
62	78.74	3.100	76.20	3.000								62
64	81.28	3.200	78.74	3.100								64
66	83.82	3.300	81.28	3.200								66
68	86.36	3.400	83.82	3.300								68
70	88.90	3.500	86.36	3.400								70
72	91.44	3.600	88.90	3.500								72
74	93.98	3.700	91.44	3.600								74
76	96.52	3.800	93.98	3.700								76
78	99.06	3.900	96.52	3.800								78
80	101.60	4.000	99.06	3.900								80
82	104.14	4.100	101.60	4.000								82
84	106.68	4.200	104.14	4.100								84
86	109.22	4.300	106.68	4.200								86
88	111.76	4.400	109.22	4.300								88
90	114.30	4.500	111.76	4.400								90
92	116.84	4.600	114.30	4.500								92
94	119.38	4.700	116.84	4.600								94
96	121.92	4.800	119.38	4.700								96
98	124.46	4.900	121.92	4.800								98
100	127.00	5.000	124.46	4.900								100

**NO PEG VERSION**  
(ALSO SEE SHEET 2)

SEE SHEET 1 EC NO: UCP2009-2465 DRW:KIPPER 2009/08/04 CHK:SSOUSEK 2009/08/07 APPR:FSMITH 2009/08/10	QUALITY SYMBOLS ▽=0 ▽=0	GENERAL TOLERANCES (UNLESS SPECIFIED) <table border="1"> <tr><th>mm</th><th>INCH</th></tr> <tr><td>4 PLACES ± .---</td><td>± .---</td></tr> <tr><td>3 PLACES ± .---</td><td>± .005</td></tr> <tr><td>2 PLACES ± 0.13</td><td>± .010</td></tr> <tr><td>1 PLACE ± 0.25</td><td>± .---</td></tr> </table> ANGULAR ±1/2°	mm	INCH	4 PLACES ± .---	± .---	3 PLACES ± .---	± .005	2 PLACES ± 0.13	± .010	1 PLACE ± 0.25	± .---	DIMENSION STYLE MM/IN DRAWN BY DATE KMS 1999/10/15 CHECKED BY DATE KMS 1999/10/15 APPROVED BY DATE KMS 1999/10/15	SCALE DESIGN UNITS INCH THIRD ANGLE PROJECTION	TITLE SALES ASSY INSULATOR DUAL ROW SMT W/BREAK-OFF .025SQ PIN GULLWING .100 MOLEX MOLEX INCORPORATED
	mm	INCH													
	4 PLACES ± .---	± .---													
	3 PLACES ± .---	± .005													
2 PLACES ± 0.13	± .010														
1 PLACE ± 0.25	± .---														
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS	MATERIAL NO. SEE TABLE	DOCUMENT NO. SD-71308-001	SHEET NO. 3 OF 6												
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K3	REV	DESCRIPTION	DATE												



13	12	11	10	9	8	6	5	4	3	2	1	
		PACKAGING SEE NOTE 4 SHT 1	4-8 CKT	BULK	TAPE-N-REEL W/ VAC CAPS	BULK	TAPE-N-REEL W/ VAC CAPS					
			10-100 CKT	TUBES	TAPE-N-REEL W/ VAC CAPS	TUBES	TAPE-N-REEL W/ VAC CAPS					
			DIM. M±0.25 MM		6.10 (.240)		6.10 (.240)					
			PLATING		30 GOLD		150 TIN					
			DIM. H		2.54 (.100)		2.54 (.100)					
		DIM. J		5.08 (.200)		5.08 (.200)						

CKTS	DIM. A		DIM. B		DIM. C		EDP NUMBER		EDP NUMBER		EDP NUMBER		EDP NUMBER		EDP NUMBER		CKTS
	MM	IN	MM	IN	MM	IN											
04	5.08	.200	2.54	.100	----	----	015-91-1048	015-91-6047									04
06	7.62	.300	5.08	.200	2.54	.100	015-91-1068	015-91-6067	71308-6106	71308-6206							06
08	10.16	.400	7.62	.300	5.08	.200	015-91-1088	015-91-6087	71308-6108	71308-6208							08
10	12.70	.500	10.16	.400	7.62	.300	015-91-1108	015-91-6107	71308-6110	71308-6210							10
12	15.24	.600	12.70	.500	10.16	.400	015-91-1128										12
14	17.78	.700	15.24	.600	12.70	.500	015-91-1148	015-91-6147									14
16	20.32	.800	17.78	.700	15.24	.600	015-91-1168	015-91-6167									16
18	22.86	.900	20.32	.800	17.78	.700	015-91-1188										18
20	25.40	1.000	22.86	.900	20.32	.800	015-91-1208	015-91-6207									20
22	27.94	1.100	25.40	1.000	22.86	.900	015-91-1228										22
24	30.48	1.200	27.94	1.100	25.40	1.000	015-91-1248										24
26	33.02	1.300	30.48	1.200	27.94	1.100	015-91-1268		71308-6126								26
28	35.56	1.400	33.02	1.300	30.48	1.200	015-91-1288										28
30	38.10	1.500	35.56	1.400	33.02	1.300	015-91-1308										30
32	40.64	1.600	38.10	1.500	35.56	1.400	015-91-1328										32
34	43.18	1.700	40.64	1.600	38.10	1.500	015-91-1348										34
36	45.72	1.800	43.18	1.700	40.64	1.600	015-91-1368										36
38	48.26	1.900	45.72	1.800	43.18	1.700	015-91-1388										38
40	50.80	2.000	48.26	1.900	45.72	1.800	015-91-1408	015-91-6407									40
42	53.34	2.100	50.80	2.000	48.26	1.900	015-91-1428										42
44	55.88	2.200	53.34	2.100	50.80	2.000	015-91-1448										44
46	58.42	2.300	55.88	2.200	53.34	2.100	015-91-1468										46
48	60.96	2.400	58.42	2.300	55.88	2.200	015-91-1488										48
50	63.50	2.500	60.96	2.400	58.42	2.300	015-91-1508	015-91-6507									50
52	66.04	2.600	63.50	2.500	60.96	2.400	015-91-1528										52
54	68.58	2.700	66.04	2.600	63.50	2.500	015-91-1548										54
56	71.12	2.800	68.58	2.700	66.04	2.600	015-91-1568										56
58	73.66	2.900	71.12	2.800	68.58	2.700	015-91-1588										58
60	76.20	3.000	73.66	2.900	71.12	2.800	015-91-1608										60
62	78.74	3.100	76.20	3.000	73.66	2.900	015-91-1628										62
64	81.28	3.200	78.74	3.100	76.20	3.000	015-91-1648										64
66	83.82	3.300	81.28	3.200	78.74	3.100	015-91-1668										66
68	86.36	3.400	83.82	3.300	81.28	3.200	015-91-1688										68
70	88.90	3.500	86.36	3.400	83.82	3.300	015-91-1708										70
72	91.44	3.600	88.90	3.500	86.36	3.400	015-91-1728										72
74	93.98	3.700	91.44	3.600	88.90	3.500	015-91-1748										74
76	96.52	3.800	93.98	3.700	91.44	3.600	015-91-1768										76
78	99.06	3.900	96.52	3.800	93.98	3.700	015-91-1788										78
80	101.60	4.000	99.06	3.900	96.52	3.800	015-91-1808										80
82	104.14	4.100	101.60	4.000	99.06	3.900	71308-6082										82
84	106.68	4.200	104.14	4.100	101.60	4.000	71308-6084										84
86	109.22	4.300	106.68	4.200	104.14	4.100	71308-6086										86
88	111.76	4.400	109.22	4.300	106.68	4.200	71308-6088										88
90	114.30	4.500	111.76	4.400	109.22	4.300	71308-6090										90
92	116.84	4.600	114.30	4.500	111.76	4.400	71308-6092										92
94	119.38	4.700	116.84	4.600	114.30	4.500	71308-6094										94
96	121.92	4.800	119.38	4.700	116.84	4.600	71308-6096										96
98	124.46	4.900	121.92	4.800	119.38	4.700	71308-6098										98
100	127.00	5.000	124.46	4.900	121.92	4.800	71308-6100										100

SEE SHEET 1 EC NO: UCP2009-2465 DRWN:MKIPPER CHKD:SSOUSEK APPR:FSMITH 2009/08/04 2009/08/07 2009/08/10	QUALITY SYMBOLS ▽=0 ▽=0	GENERAL TOLERANCES (UNLESS SPECIFIED)	DIMENSION STYLE		SCALE	DESIGN UNITS	THIRD ANGLE PROJECTION
			MM/IN		INCH	INCH	
			mm	INCH	DRAWN BY	DATE	TITLE
			4 PLACES ± --- ± ---	3 PLACES ± --- ± .005	KMS	1999/10/15	SALES ASSY INSULATOR DUAL ROW SMT W/BREAK-OFF .025SQ PIN GULLWING .100
			2 PLACES ± 0.13 ± .010	1 PLACE ± 0.25 ± ---	KMS	1999/10/15	MOLEX INCORPORATED
ANGULAR ±1/2°		APPROVED BY		DATE	DOCUMENT NO.		SHEET NO.
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SEE TABLE		SD-71308-001		5 OF 6	
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SHORT PEG VERSION (.055")

