

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

**Part Number:** [0015913120](#)  
**Status:** **Active**  
**Description:** 2.54mm (.100") Pitch C-Grid® Header, Surface Mount, Dual Row, Vertical, 12 Circuits, 0.76µm (30µ") Gold (Au) Selective Plating, without PCB Locator Pegs

**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)	12
Circuits (maximum)	12
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)	30
Plating min: Mating (µm)	0.75
Plating min: Termination (µin)	75
Plating min: Termination (µm)	1.875
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)	30
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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	3
Process Temperature max. C	260

**Material Info**

Old Part Number	A713080212N
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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.

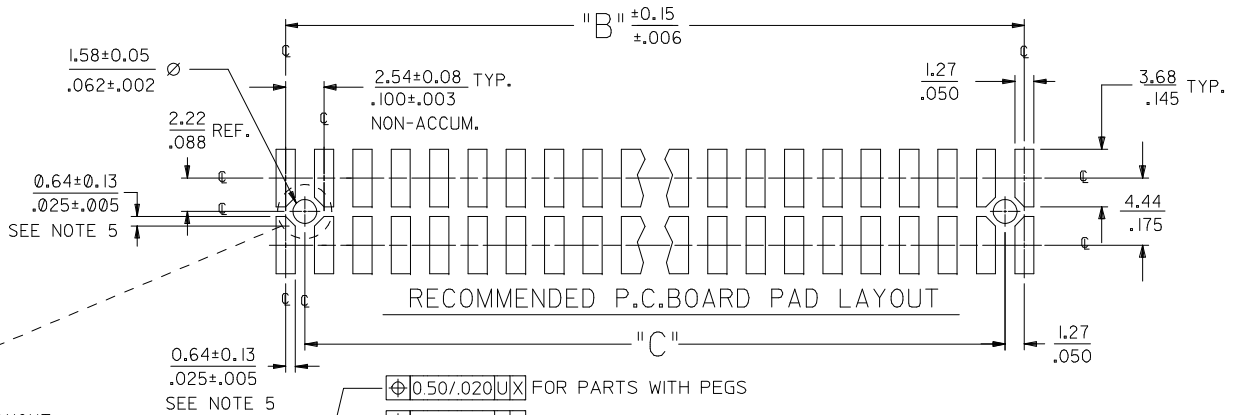


DIM. "M"	DIM. "G"
6.10 .240	10.67 .420
8.13 .320	12.70 .500

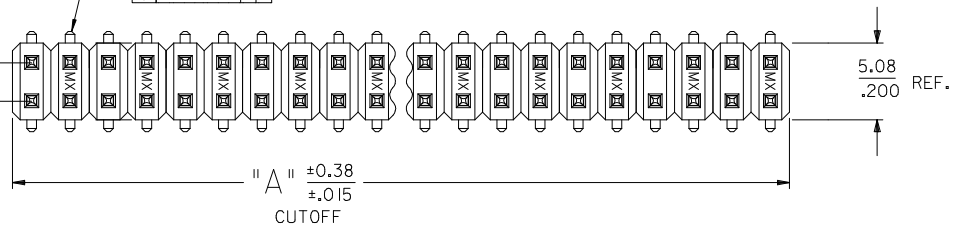
PEG OPTIONS



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



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	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	

SHORT PEG VERSION (.055")

SEE SHEET 1 EC NO: UCP2009-2465 DRWING: IPPER 2009/08/04 CHKD: SSOUSEK 2009/08/07 APPR: F. SMITH 2009/08/10 K3	QUALITY SYMBOLS ▽=0 ▽=0	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE	SCALE	DESIGN UNITS	THIRD ANGLE PROJECTION		
				MM/IN					
				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 ± ---	CHECKED BY	DATE	<b>MOLEX INCORPORATED</b>			
		ANGULAR ± 1/2°		KMS	1999/10/15				
		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		MATERIAL NO.	DOCUMENT NO.	SHEET NO.			
				SEE TABLE	SD-71308-001	5 OF 6			
		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION							

