

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

Part Number: [0015801521](#)

Status: **Active**

Overview: [cgrid_sl_products](#)

Description: 2.54mm (.100") Pitch C-Grid® Header, Through Hole without Peg, Dual Row, Vertical, Shrouded, High Temperature, 52 Circuits, 0.76µm (30µ") Gold, (Au) Selective Plating, Tin (Sn) PC Tail Plating, 3.81mm (.150") Inside Shroud to End Circuit Spacing

Documents:

[3D Model](#)

[Drawing \(PDF\)](#)

[Packaging Specification \(PDF\)](#)

[Product Specification PS-70567 \(PDF\)](#)

[RoHS Certificate of Compliance \(PDF\)](#)

Agency Certification

UL E29179

General

Product Family PCB Headers
Series [70567](#)
Application Wire-to-Board
Overview [cgrid_sl_products](#)
Product Name C-Grid®

Physical

Breakaway No
Circuits (Loaded) 52
Circuits (maximum) 52
Circuits Detail 52
Color - Resin Black
Durability (mating cycles max) 25
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 Yes
Material - Metal Brass, Phosphor Bronze
Material - Plating Mating Gold
Material - Plating Termination Tin
Material - Resin High Temperature Thermoplastic
Number of Rows 2
Orientation Vertical
PC Tail Length (in) 0.130 In
PC Tail Length (mm) 3.30 mm
PCB Locator No
PCB Retention Yes
PCB Thickness Recommended (in) 0.093 In
PCB Thickness Recommended (mm) 2.36 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) 30
Plating min: Mating (µm) 0.75
Plating min: Termination (µin) 75
Plating min: Termination (µm) 1.875



EU RoHS

ELV and RoHS Compliant
REACH SVHC Contains SVHC: No
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

[70567Series](#)

Mates With

[70013 Interim Clip](#)

Polarized to Mating Part	No
Polarized to PCB	No
Shrouded	Open Ends
Stackable	No
Surface Mount Compatible (SMC)	Yes
Temperature Range - Operating	-55°C to +105°C
Termination Interface: Style	Through Hole

Electrical

Current - Maximum per Contact	2.5A
Voltage - Maximum	250V DC

Solder Process Data

Duration at Max. Process Temperature (seconds)	5
Lead-free Process Capability	SMC & Wave Capable (TH only)
Max. Cycles at Max. Process Temperature	1
Process Temperature max. C	245

Material Info

Old Part Number	A-70567-0364
-----------------	--------------

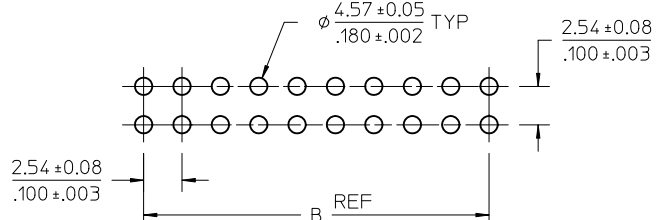
Reference - Drawing Numbers

Packaging Specification	PK-70873-0018
Product Specification	PS-70567
Sales Drawing	SDA-70567-****

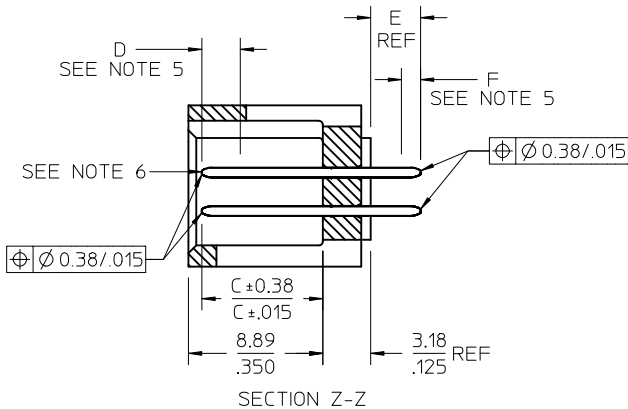
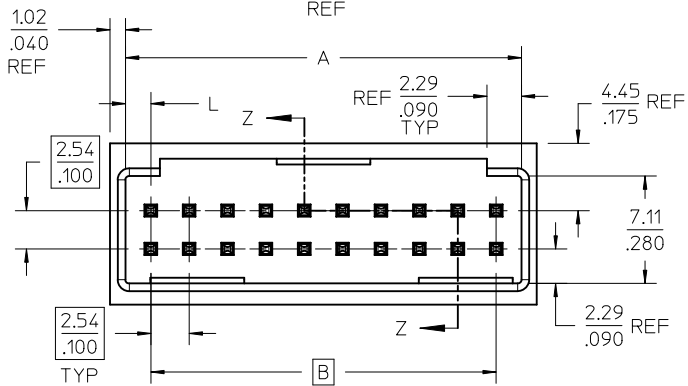
This document was generated on 05/26/2010

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

OPTION A

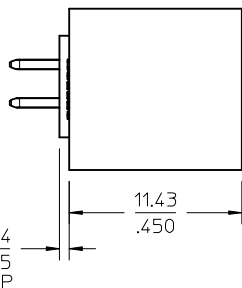
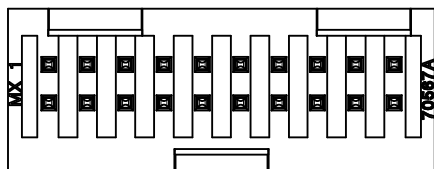
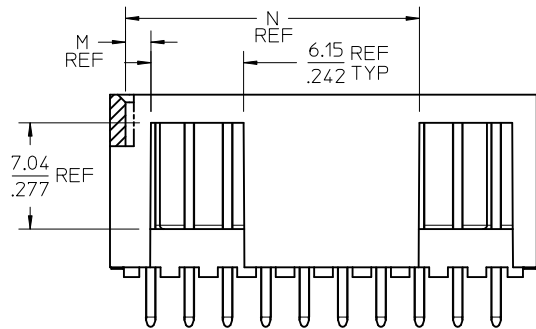


PCB LAYOUT: COMPONENT SIDE
TYPICAL PCB THICKNESS: 2.36/.093



NOTES:

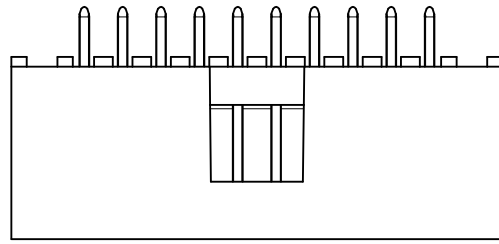
- MATERIAL: SHROUDED WAFER: GLASS FILLED, LIQUID CRYSTAL POLYMER, COLOR: BLACK, 94V-0. PINS: COPPER ALLOY.
- PLATING:
 - TIN 0.00381/.000150 MINIMUM TIN, OVER NICKEL UNDERPLATE OVERALL
 - 15 GOLD 0.00038/.000015 MINIMUM GOLD PLATE IN SELECTED AREA
 - 0.00191/.000075 MINIMUM TIN IN SELECTED AREA OVER NICKEL UNDERPLATE OVERALL
 - 30 GOLD 0.00076/.000030 MINIMUM GOLD PLATE IN SELECTED AREA
 - 0.00191/.000075 MINIMUM TIN IN SELECTED AREA, OVER NICKEL UNDERPLATE OVERALL
- PRODUCT SPECIFICATION: PS-70567.
- PACKAGING: SEE CHARTS
- MEASURE POINT FOR PLATING THICKNESS.
- PIN PUSHOUT FORCE: 4 LBS. MINIMUM IN DIRECTION INDICATED.
- FOR ILLUSTRATION PURPOSES, 20 (DUAL 10) CIRCUIT SIZE HEADER SHOWN.
- PIN SOLDERABILITY PER MOLEX SPEC. SMES-152.
- WINDOW NOT AVAILABLE ON 6 OR 8 CIRCUIT SIZE.
- THIS PART CONFORMS TO CLASS B REQUIREMENTS OF COSMETIC SPECIFICATION PS-45499-002.



CKT	DIM A	DIM B	DIM L	DIM M	DIM N
06	8.43 .332	5.08 .200	1.68 .066	1.68 .066	
08	10.97 .432	7.62 .300	1.68 .066	1.68 .066	
10	13.51 .532	10.16 .400	1.68 .066	4.22 .166	
12	16.05 .632	12.70 .500	1.68 .066	4.22 .166	
14	18.59 .732	15.24 .600	1.68 .066	6.76 .266	
16	21.13 .832	17.78 .700	1.68 .066	6.76 .266	
18	23.67 .932	20.32 .800	1.68 .066	9.30 .366	
20	26.21 1.032	22.86 .900	1.68 .066	1.68 .066	19.46 .766
22	28.75 1.132	25.40 1.000	1.68 .066	1.68 .066	22.00 .866
24	31.29 1.232	27.94 1.100	1.68 .066	1.68 .066	24.54 .966
26	33.83 1.332	30.48 1.200	1.68 .066	1.68 .066	27.08 1.066
28	36.37 1.432	33.02 1.300	1.68 .066	1.68 .066	29.62 1.166
30	38.91 1.532	35.56 1.400	1.68 .066	1.68 .066	32.16 1.266
32	41.45 1.632	38.10 1.500	1.68 .066	1.68 .066	34.70 1.366
34	43.99 1.732	40.64 1.600	1.68 .066	1.68 .066	37.24 1.466
36	46.53 1.832	43.18 1.700	1.68 .066	1.68 .066	39.78 1.566
38	49.07 1.932	45.72 1.800	1.68 .066	1.68 .066	42.32 1.666
40	51.61 2.032	48.26 1.900	1.68 .066	1.68 .066	44.86 1.766
42	54.15 2.132	50.80 2.000	1.68 .066	1.68 .066	47.40 1.866
44	56.69 2.232	53.34 2.100	1.68 .066	1.68 .066	49.94 1.966
46	59.23 2.332	55.88 2.200	1.68 .066	1.68 .066	52.48 2.066
48	61.77 2.432	58.42 2.300	1.68 .066	1.68 .066	55.02 2.166
50	64.31 2.532	60.96 2.400	1.68 .066	1.68 .066	57.56 2.266
52	66.85 2.632	63.50 2.500	1.68 .066	1.68 .066	60.10 2.366
54	69.39 2.732	66.04 2.600	1.68 .066	1.68 .066	62.64 2.466
56	71.93 2.832	68.58 2.700	1.68 .066	1.68 .066	65.18 2.566
58	74.47 2.932	71.12 2.800	1.68 .066	1.68 .066	67.72 2.666
60	77.01 3.032	73.66 2.900	1.68 .066	1.68 .066	70.26 2.766
62	79.55 3.132	76.20 3.000	1.68 .066	1.68 .066	72.80 2.866
64	82.09 3.232	78.74 3.100	1.68 .066	1.68 .066	75.34 2.966
66	84.63 3.332	81.28 3.200	1.68 .066	1.68 .066	77.88 3.066
68	87.17 3.432	83.82 3.300	1.68 .066	1.68 .066	80.42 3.166
70	89.71 3.532	86.36 3.400	1.68 .066	1.68 .066	82.96 3.266
72	92.25 3.632	88.90 3.500	1.68 .066	1.68 .066	85.50 3.366

MODIFY HOUSING WALL EC NO: UCP2010-1587 DRWINAS BARRA 2010/01/12 CHKD:BARKER 2010/01/12 APPR:SMILLER 2010/03/31	QUALITY SYMBOLS ∇=0 ∇=0 ∇=0	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE		SCALE	DESIGN UNITS	THIRD ANGLE PROJECTION		
		mm	INCH	MM/IN		4:1	INCH			
		DRAWN BY DATE		CHECKED BY DATE		APPROVED BY DATE				
		EIK 1988/03/10		EIK 1988/03/10		SMILLER 2010/03/31				
ANGULAR ±1/2°		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SEE TABLE		MATERIAL NO. DOCUMENT NO.		SHEET NO.		
						MOLEX		SDA-70567-****		
						MOLEX INCORPORATED		1 OF 5		
						THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION				

OPTION B



PCB LAYOUT: COMPONENT SIDE
TYPICAL PCB THICKNESS: 2.361.093



NOTES:

- MATERIAL: SHROUDED WAFER: 30% G.F. LCP, COLOR: BLACK, 94V-0. PINS: COPPER ALLOY.
- PLATING:
 TIN - (0.00381)/.000150 MINIMUM TIN OVER NICKEL UNDERPLATE OVERALL
 15 GOLD - (0.000381)/.000015 MINIMUM GOLD PLATE IN SELECTED AREA
 (0.00191)/.000075 MINIMUM TIN IN SELECTED AREA, OVER NICKEL UNDERPLATE OVERALL
 30 GOLD - (0.000761)/.000030 MINIMUM GOLD PLATE IN SELECTED AREA
 (0.00191)/.000075 MINIMUM TIN IN SELECTED AREA, OVER NICKEL UNDERPLATE OVERALL
- PRODUCT SPECIFICATION: PS-70567.
- PACKAGING: SEE CHARTS
- PIN PUSHOUT FORCE: 4 LBS. MIN IN DIRECTION INDICATED.
- FOR ILLUSTRATION PURPOSES, 20 (DUAL 10) CIRCUIT SIZE HEADER SHOWN.
- PIN SOLDERABILITY PER MOLEX SPEC. SMES-152.
- MEASURE POINT FOR PLATING THICKNESS.
- WINDOW IS NOT AVAILABLE ON 6 CIRCUIT.
- THIS PART CONFORMS TO CLASS B REQUIREMENTS OF COSMETIC SPECIFICATION PS-45499-002.
- SEE SHEET 1 FOR ALL OTHER DIMENSIONS

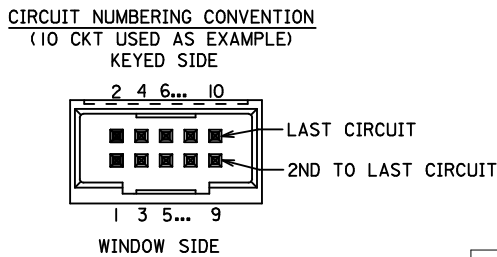


CKT	13		12		11		10		9		8		7		6		5		4		3		2		1	
	DIM A	DIM B	DIM L	DIM M	DIM N																					
06	12.70	5.08	3.81	3.81																						
08	15.24	7.62	3.81	3.81																						
10	17.78	10.16	3.81	6.35																						
12	20.32	12.70	3.81	6.35																						
14	22.86	15.24	3.81	8.89																						
16	25.40	17.78	3.81	8.89																						
18	27.94	20.32	3.81	11.43																						
20	30.48	22.86	3.81	3.81	21.59																					
22	33.02	25.40	3.81	3.81	24.13																					
24	35.56	27.94	3.81	3.81	26.67																					
26	38.10	30.48	3.81	3.81	29.21																					
28	40.64	33.02	3.81	3.81	31.75																					
30	43.18	35.56	3.81	3.81	34.29																					
32	45.72	38.10	3.81	3.81	36.83																					
34	48.26	40.64	3.81	3.81	39.37																					
36	50.80	43.18	3.81	3.81	41.91																					
38	53.34	45.72	3.81	3.81	44.45																					
40	55.88	48.26	3.81	3.81	46.99																					
42	58.42	50.80	3.81	3.81	49.53																					
44	60.96	53.34	3.81	3.81	52.07																					
46	63.50	55.88	3.81	3.81	54.61																					
48	66.04	58.42	3.81	3.81	57.15																					
50	68.58	60.96	3.81	3.81	59.69																					
52	71.12	63.50	3.81	3.81	62.23																					
54	73.66	66.04	3.81	3.81	64.77																					
56	76.20	68.58	3.81	3.81	67.31																					
58	78.74	71.12	3.81	3.81	69.85																					
60	81.28	73.66	3.81	3.81	72.39																					
62	83.82	76.20	3.81	3.81	74.93																					
64	86.36	78.74	3.81	3.81	77.47																					
66	88.90	81.28	3.81	3.81	80.01																					
68	91.44	83.82	3.81	3.81	82.55																					
70	93.98	86.36	3.81	3.81	85.09																					
72	96.52	88.90	3.81	3.81	87.63																					

MODIFY HOUSING WALL EC NO: UCP2010-1587 DRWN:MS BARRA 2010/01/12 CHKD:BBARKER 2010/01/12 APPR:SMILLER 2010/03/31	QUALITY SYMBOLS ▽=0 ▽=0 ▽=0	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE		SCALE	DESIGN UNITS	THIRD ANGLE PROJECTION		
		mm	INCH	MM/IN	DATE	4:1	INCH			
		4 PLACES ± ---	± ---	EIK	1988/03/10	4 SIDES SHROUDED HEADER HIGH TEMP, (2.54)/.100 GRID W/ (0.64)/.025 PINS MOLEX MOLEX INCORPORATED				
		3 PLACES ± ---	± .005	EIK	1988/03/10					
2 PLACES ± 0.13	± .010	APPROVED BY	DATE	MATERIAL NO.		DOCUMENT NO.		SHEET NO.		
1 PLACE ± 0.25	± ---	SMILLER	2010/03/31	SEE TABLE		SDA-70567-****		2 OF 5		
ANGULAR ±1/2°		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						

SPECIAL - WITH VOIDS

CKTS SIZE	ENGINEERING NUMBER A-70567	EDP NUMBER	E REF.	C $\pm \frac{.015}{(0.38)}$	K $\pm \frac{.015}{(0.38)}$	VOID CKTS	CONNECTOR END PLATING		P.C. BOARD END PLATING		PACKAGING INFORMATION PK-70873-
							TYPE	D MEAS.	TYPE	F MEAS.	
10	-9003	70567-9003	.130 (3.30)	.315 (8.00)	.415 (10.54)	10	GOLD	.100 (2.54)	TIN	.050 (.127)	0018



SEE SHEETS 1 & 2 EC NO: UCP2010-1587 DRWN:MSIBARRA 2010/01/12 CHKD:BBARKER 2010/01/12 APPR:SMILLER 2010/03/31	QUALITY SYMBOLS 	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM/IN		SCALE 4:1	DESIGN UNITS INCH	THIRD ANGLE PROJECTION	
		4 PLACES \pm --- \pm ---	DRAWN BY EIK	DATE 1988/03/10	TITLE 4 SIDES SHROUDED HEADER HIGH TEMP. (2.54)/.100 GRID W/ (.64)/.025 PINS				
		3 PLACES \pm --- \pm .005	CHECKED BY EIK	DATE 1988/03/10	MOLEX INCORPORATED				
		2 PLACES \pm 0.13 \pm .010 1 PLACE \pm 0.25 \pm ---	APPROVED BY SMILLER	DATE 2010/03/31	MOLEX INCORPORATED				
ANGULAR \pm 1/2°		MATERIAL NO. SEE TABLE		DOCUMENT NO. SDA-70567-****	SHEET NO. 5 OF 5				
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							