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Part Number: [0702461202](#)
Status: **Active**
Overview: [cgrid_sl_products](#)
Description: 2.54mm (.100") Pitch C-Grid® Header, Low Profile, Dual Row, Vertical, Shrouded, 12 Circuits, 0.76µm (30µ") Gold (Au) Selective Plating, Tin (Sn) PC Tail Plating

Documents:
[3D Model](#) [RoHS Certificate of Compliance \(PDF\)](#)
[Drawing \(PDF\)](#)

Agency Certification

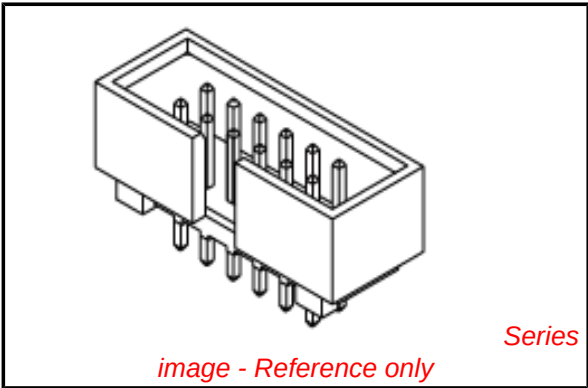
CSA	LR19980
UL	E29179

General

Product Family	PCB Headers
Series	70246
Application	Wire-to-Board
Overview	cgrid_sl_products
Product Name	C-Grid®

Physical

Breakaway	No
Circuits (Loaded)	12
Circuits (maximum)	12
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 - Plating Mating	Gold
Material - Plating Termination	Tin
Number of Rows	2
Orientation	Vertical
PC Tail Length (in)	0.135 In
PC Tail Length (mm)	3.43 mm
PCB Locator	No
PCB Retention	None
PCB Thickness Recommended (in)	0.062 In
PCB Thickness Recommended (mm)	1.60 mm
Packaging Type	Tray
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)	75.2
Plating min: Termination (µm)	1.88
Polarized to Mating Part	Center Slot
Polarized to PCB	No
Shrouded	Fully
Stackable	No
Surface Mount Compatible (SMC)	No
Temperature Range - Operating	-55°C to +120°C



EU RoHS ELV and RoHS Compliant REACH SVHC Contains SVHC: No Halogen-Free Status Not Reviewed	China RoHS
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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
[70246Series](#)

Mates With
[70450 SL™](#) Crimp Housing, [70058 SL™](#) Crimp Terminal

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)

10

Lead-free Process Capability

Wave Capable (TH only)

Max. Cycles at Max. Process Temperature

1

Process Temperature max. C

265

Material Info

Reference - Drawing Numbers

Packaging Specification

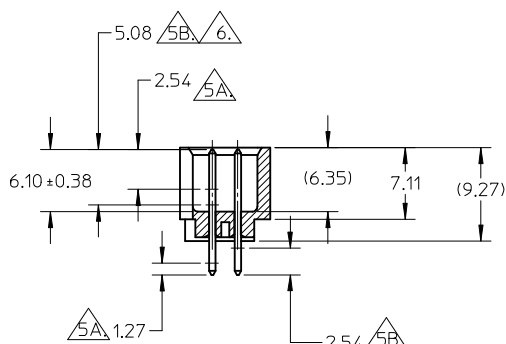
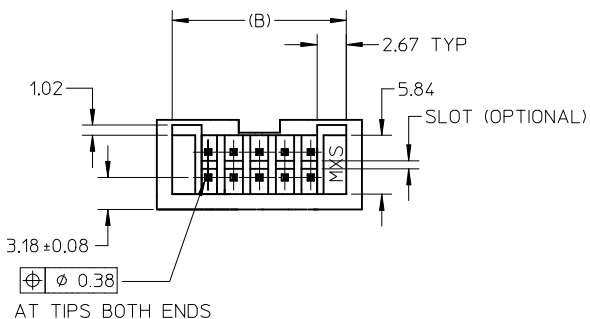
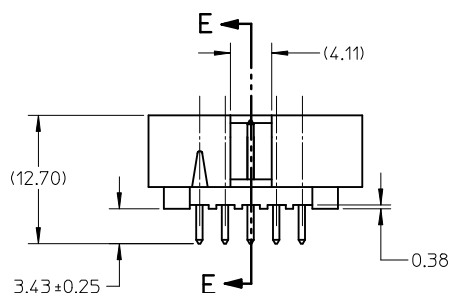
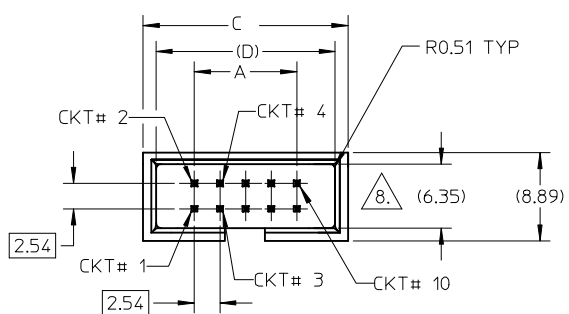
PK-87835-001

Sales Drawing

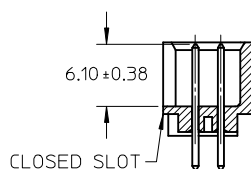
SDA-70246-20-25,39

This document was generated on 05/25/2010

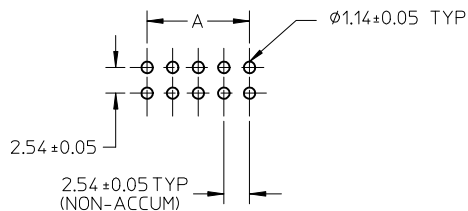
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SECTION E-E



MOLEX IRELAND PRODUCTION ONLY
(OPTION)



RECOMMENDED PCB HOLE LAYOUT

NOTES:

- PIN PUSHOUT FORCE (.9072KG)/2LBS MIN.
- PIN SOLDERABILITY PER MOLEX SPEC. ES-152.
- PRODUCT SPEC: PS-70246 APPLIES.
- WAFER TO BE FLAT WITHIN .003 MM/MM.
- DIMENSIONS FOR PLATING LOCATION:
 - 5A MEASURE POINT FOR THICKNESS
 - 5B MINIMUM COVERAGE
 - 6. GOLD END OF PIN UNLESS OVERALL PLATED.
- FINISH:
 - 571 : 15 MICRO INCHES MIN GOLD PLATE ON CONTACT AND 75 MICRO INCHES MIN TIN PLATE ON SOLDER TAIL BOTH OVER 50 MICRO INCHES MIN NICKEL OVERALL.
 - 574 : 30 MICRO INCHES MIN GOLD PLATE ON CONTACT AND 75 MICRO INCHES MIN TIN PLATE ON SOLDER TAIL BOTH OVER 50 MICRO INCHES MIN NICKEL OVERALL.
 - 544 : 5 MICRO INCHES MIN GOLD PLATE ON CONTACT AND 75 MICRO INCHES MIN TIN PLATE ON SOLDER TAIL BOTH OVER 50 MICRO INCHES MIN NICKEL OVERALL.
 - 573 : 20 MICRO INCHES MIN GOLD PLATE ON CONTACT AND 100 MICRO INCHES MIN TIN PLATE ON SOLDER TAIL BOTH OVER 50 MICRO INCHES MIN NICKEL OVERALL.
- DIM AT THE CENTRE OF THE SHROUDED WALL SHALL BE 5.91MM MIN. THIS SPEC IS VALID FOR ALL CKT SIZE.
- MATERIAL:
 - HSG: GLASS FILLED PBT, UL94V-0, COLOUR BLACK
 - PIN: 0.64MM SQ. PIN PHOSPHOR BRONZE.

CHANGES TO VOID CKT FOR
P/N(70246-1003)
EC NO: S2010-0052
DRWN:YMCHEONG 2009/07/24
CHKD:ATSEE 2009/07/28
APPR:MLONG 2009/07/29
J2

QUALITY SYMBOLS
▽=0
C=0
DESCRIPTION
REV

GENERAL TOLERANCES (UNLESS SPECIFIED)

	mm	INCH
4 PLACES	± ---	± ---
3 PLACES	± ---	± ---
2 PLACES	± 0.20	± ---
1 PLACE	± ---	± ---
ANGULAR ± 3 °		

DRAFT WHERE APPLICABLE
MUST REMAIN
WITHIN DIMENSIONS

DIMENSION STYLE
MM ONLY

DRAWN BY	DATE
JENNIFER	1987/09/18
CHECKED BY	DATE
RWONG	1987/09/18
APPROVED BY	DATE
ALANB	1987/09/18
MATERIAL NO.	SEE TABLE

SCALE	DESIGN UNITS	THIRD ANGLE PROJECTION
NTS	METRIC	

TITLE
C-GRID, SHROUDED HEADER
(SLOTTED W/O STANDOFFS)

MOLEX INCORPORATED

DOCUMENT NO. SDA-70246-**-20-25,39-41

SHEET NO. 1 OF 2

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

	10		9		8		7		6		5		4		3		2		1	
	PART NUMBER	CKT SIZE	VOID CKT	DIM A	DIM B	DIM C	DIM D	VOID CKT, ONLY APPLY TO PLATING CODE												
F	70246-08**	08	-	7.62	14.73	17.78	15.24	-												
	70246-10**	10	-	10.16	17.27	20.32	17.78	-												
	70246-12**	12	-	12.70	19.81	22.86	20.32	-												
	70246-14**	14	-	15.24	22.35	25.40	22.86	-												
	70246-16**	16	-	17.78	24.89	27.94	25.40	-												
	70246-20**	20	-	22.86	29.97	33.02	30.48	-												
	70246-24**	24	-	27.94	35.05	38.10	35.56	-												
	70246-26**	26	-	30.48	37.59	40.64	38.10	-												
	70246-30**	30	-	35.56	42.67	45.72	43.18	-												
	70246-34**	34	-	40.64	47.75	50.80	48.26	-												
E	70246-40**	40	-	48.26	55.37	58.42	55.88	-												
	70246-44**	44	-	53.34	60.45	63.50	60.96	-												
	70246-50**	50	-	60.96	68.07	71.12	68.58	-												
	70246-56**	56	-	68.58	75.69	78.74	76.20	-												
	70246-60**	60	-	73.66	80.77	83.82	81.28	-												
D	70246-64**	64	-	78.74	85.85	88.90	86.36	-												
	70246-72**	72	-	88.90	96.01	99.06	96.52	-												
	70246-25**	26	26	30.48	37.59	40.64	38.10	-												
	70246-1003	10	10	10.16	17.27	20.32	17.78	571												
C																				
B																				
A																				

LEGEND:

70246 - * * * *

CKT SIZE

PLATING OPT.

SEE TABLE FOR DETAIL

△ PART NUMBER	PLATING OPTION
70246-**01	571
70246-**02	574
70246-**04	544
70246-**12	573

CHANGES TO VOID CKT FOR P/N 70246-1003 EC NO: S2010-0052	DRWN: MYCHONG 2009/07/24
	CHKD: ATSEE 2009/07/28
	APPR: MLONG 2009/07/29
	REV
	J2

QUALITY SYMBOLS	▽=0
	▽=0

GENERAL TOLERANCES (UNLESS SPECIFIED)		
	mm	INCH
4 PLACES	± ---	± ---
3 PLACES	± ---	± ---
2 PLACES	± 0.20	± ---
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 JENNIFER	DATE 1987/09/18	TITLE C-GRID, SHROUDED HEADER (SLOTTED W/O STANDOFFS)		
CHECKED BY RWONG	DATE 1987/09/18			
APPROVED BY ALANB	DATE 1987/09/18			
MATERIAL NO.		DOCUMENT NO.		
SEE TABLE		SDA-70246-**20-25,39-41		
SIZE A3	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION			

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Rev. E 2006/04/15

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