

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

Part Number: [0702462004](#)
Status: **Active**
Overview: [cgrid_sl_products](#)
Description: 2.54mm (.100") Pitch C-Grid® Header, Low Profile, Dual Row, Vertical, Shrouded, 20 Circuits, 0.127µm (5µ") Gold (Au) Plating, Tin(Sn) PC Tail Plating

Documents:
[3D Model](#)
[Drawing \(PDF\)](#)

[Product Specification PS-70246-100 \(PDF\)](#)
[RoHS Certificate of Compliance \(PDF\)](#)

Agency Certification

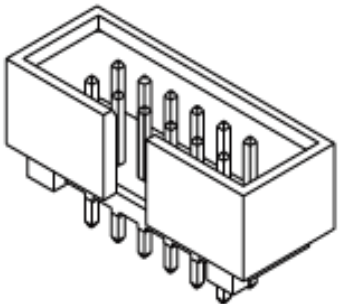
CSA	LR19980
UL	E29179

General

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

Physical

Breakaway	No
Circuits (Loaded)	20
Circuits (maximum)	20
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)	5.2
Plating min: Mating (µm)	0.13
Plating min: Termination (µin)	75.2
Plating min: Termination (µm)	1.88
Polarized to Mating Part	Yes
Polarized to PCB	No
Shrouded	Closed Ends
Stackable	No
Surface Mount Compatible (SMC)	No
Temperature Range - Operating	-55°C to +120°C



Series

image - Reference only

EU RoHS
ELV and RoHS
Compliant
REACH SVHC
Contains SVHC: No
Halogen-Free
Status
Not Halogen-Free

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
[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

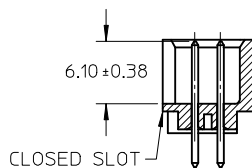
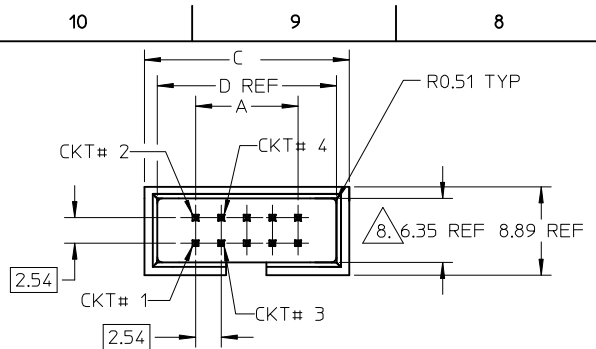
Material Info

Reference - Drawing Numbers

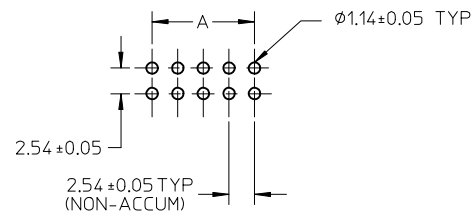
Packaging Specification	PK-87835-001
Product Specification	PS-70246-100
Sales Drawing	SDA-70246-**20-25,39

This document was generated on 05/25/2010

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION



MOLEX IRELAND PRODUCTION ONLY
(OPTION)



RECOMMENDED PCB HOLE LAYOUT

NOTES:

1. PIN PUSHOUT FORCE (.9072KG)/2LBS MIN.
2. PIN SOLDERABILITY PER MOLEX SPEC. ES-152.
3. PRODUCT SPEC: PS-70246 APPLIES.
4. WAFER TO BE FLAT WITHIN .003 MM/MM.
5. DIMENSIONS FOR PLATING LOCATION:

△5A MEASURE POINT FOR THICKNESS

△5B MINIMUM COVERAGE

△6 GOLD END OF PIN UNLESS OVERALL PLATED.

△7 FINISH:

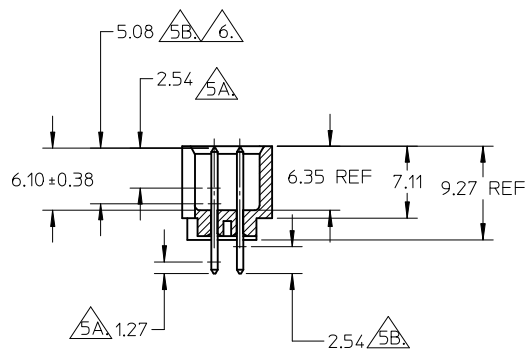
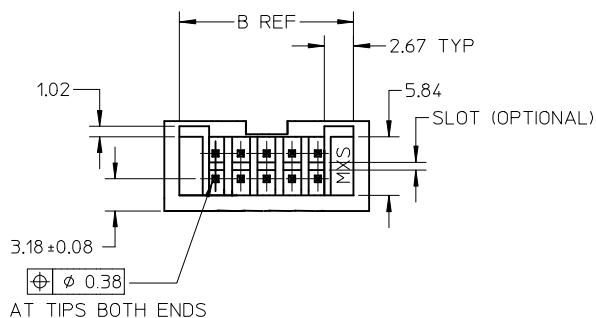
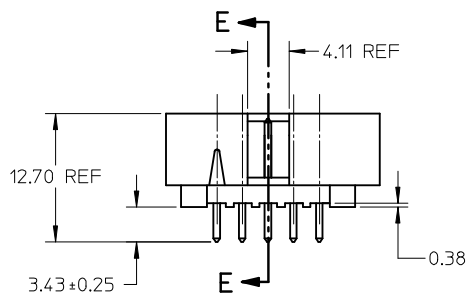
- 571 : 15 MICRO INCHES MIN GOLD PLATE ON CONTACT AND 75 MICRO INCHES MIN TIN PLATE ON SOLDERTAIL BOTH OVER 50 MICRO INCHES MIN NICKEL OVERALL.
- 574 : 30 MICRO INCHES MIN GOLD PLATE ON CONTACT AND 75 MICRO INCHES MIN TIN PLATE ON SOLDERTAIL BOTH OVER 50 MICRO INCHES MIN NICKEL OVERALL.
- 544 : 5 MICRO INCHES MIN GOLD PLATE ON CONTACT AND 75 MICRO INCHES MIN TIN PLATE ON SOLDERTAIL 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 SOLDERTAIL BOTH OVER 50 MICRO INCHES MIN NICKEL OVERALL.

△8 DIM AT THE CENTRE OF THE SHROUDED WALL SHALL BE 5.91MM MIN. THIS SPEC IS VALID FOR ALL CKT SIZE.

9. MATERIAL:

HSG: GLASS FILLED PBT, UL94V-0, COLOUR BLACK
PIN: 0.64MM SQ. PIN PHOSPHOR BRONZE.



SECTION E-E

ADD IN P/N (70246-1003)
WITH VOID CKT #1
EC NO: S2009-0966
DRWN:YCHONG 2009/06/25
CHKD:ATSEE 2009/06/30
APPR:MLONG 2009/07/02
REV J1

QUALITY SYMBOLS
▽=0
C=0
DESCRIPTION

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	TITLE
JENNIFER	1987/09/18	C-GRID, SHROUDED HEADER (SLOTTED W/O STANDOFFS)
CHECKED BY	DATE	
RWONG	1987/09/18	
APPROVED BY	DATE	MOLEX INCORPORATED
ALANB	1987/09/18	
MATERIAL NO.	DOCUMENT NO.	SHEET NO.
SEE TABLE	SDA-70246-**20-25,39-41	1 OF 2

SCALE
NTS

DESIGN UNITS
METRIC

THIRD ANGLE
PROJECTION

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	-		LEGEND: 70246 - * * * * CKT SIZE PLATING OPT. SEE TABLE FOR DETAIL <table><tr><td>△ PART NUMBER</td><td>PLATING OPTION</td></tr><tr><td>70246-**-01</td><td>571</td></tr><tr><td>70246-**-02</td><td>574</td></tr><tr><td>70246-**-04</td><td>544</td></tr><tr><td>70246-**-12</td><td>573</td></tr></table>																		△ PART NUMBER	PLATING OPTION	70246-**-01	571	70246-**-02	574	70246-**-04	544	70246-**-12	573
	△ PART NUMBER	PLATING OPTION																																			
	70246-**-01	571																																			
	70246-**-02	574																																			
	70246-**-04	544																																			
70246-**-12	573																																				
70246-10**	10	1	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	-																														
E	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	-																													
D	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	1	10.16	17.27	20.32	17.78	571																													