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Part Number: [0702472452](#)
Status: **Active**
Overview: [cgrid_sl_products](#)
Description: 2.54mm (.100") Pitch C-Grid® Header, Dual Row, Low Profile, Right Angle, Shrouded, 24 Circuits, 0.76µm (30µ") Gold (Au) Selective Plating, Tin (Sn) PC Tail Plating

Documents:

3D Model	Product Specification PS-70246-100 (PDF)
Drawing (PDF)	RoHS Certificate of Compliance (PDF)
Product Specification PS-70246 (PDF)	

Agency Certification

CSA	LR19980
UL	E29179

General

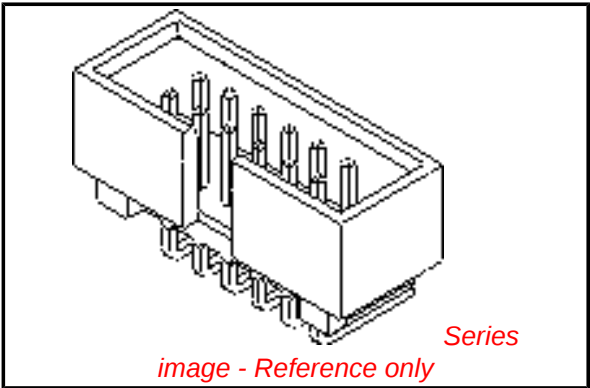
Product Family	PCB Headers
Series	70247
Application	Wire-to-Board
Overview	cgrid_sl_products
Product Name	C-Grid®

Physical

Breakaway	No
Circuits (Loaded)	24
Circuits (maximum)	24
Durability (mating cycles max)	50
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	Right Angle
PC Tail Length (in)	0.120 In
PC Tail Length (mm)	3.05 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
Plating min: Mating (µin)	30
Plating min: Mating (µm)	0.76
Polarized to Mating Part	Center Slot
Shrouded	Fully
Stackable	No
Temperature Range - Operating	-55°C to +120°C
Termination Interface: Style	Through Hole

Electrical

Current - Maximum per Contact	2.5A
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EU RoHS

**ELV and RoHS
Compliant**
REACH SVHC
Contains SVHC: No
Halogen-Free
Status

China RoHS



Not Reviewed

**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

[70247Series](#)

Mates With

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

Voltage - Maximum	250V DC
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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

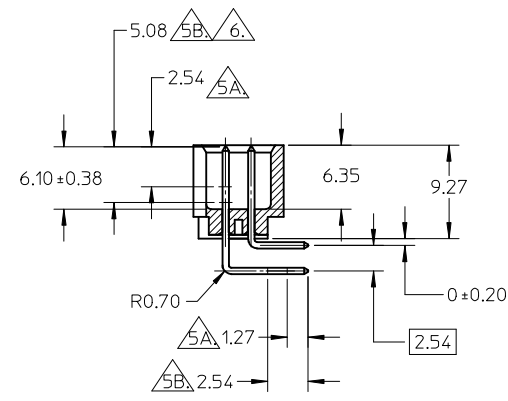
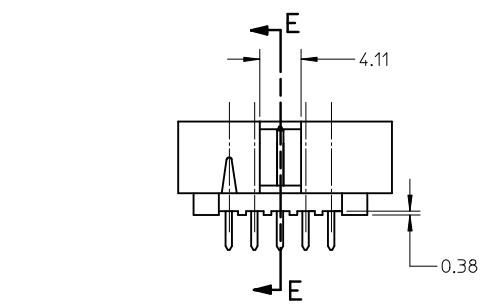
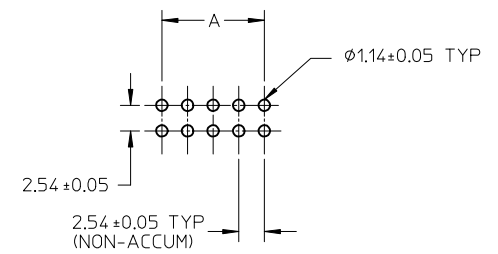
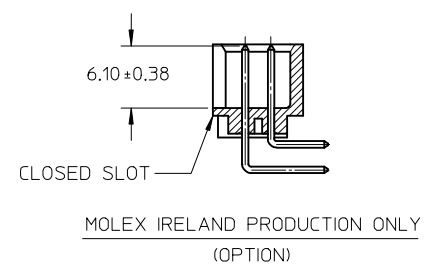
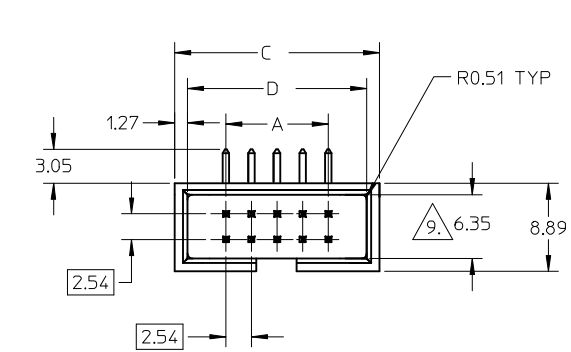
Reference - Drawing Numbers

Packaging Specification	PK-87835-001
Product Specification	PS-70246, PS-70246-100
Sales Drawing	SDA-70247-**-00-04

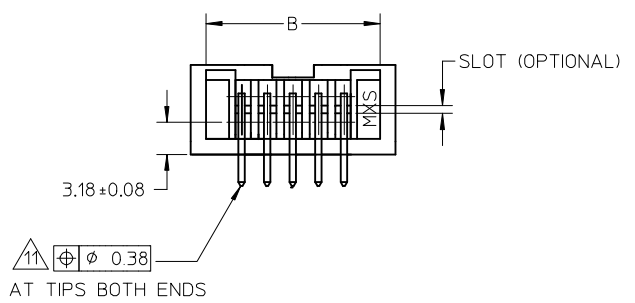
This document was generated on 05/24/2010

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10 9 8 7 6 5 4 3 2 1



RECOMMENDED PCB HOLE LAYOUT



SECTION E-E

LEGEND:
70247 - * * * *
CKT SIZE
PLATING OPT.

REVISE DIMENSIONS EC NO: S2010-0369 2009/10/27 DRWN:SKANG CHKD:ATSEE 2009/11/09 APPR:MLONG 2009/11/11		DESCRIPTION REV	QUALITY SYMBOLS F _A =0 F _C =0 F _P =0	GENERAL TOLERANCES (UNLESS SPECIFIED)			DIMENSION STYLE MM ONLY		SCALE NTS	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION		
					mm	INCH	DRAWN BY JENNIFER	DATE 1987/09/21	TITLE C-GRID, SHROUDED HEADER R/A (SLOTTED W/O STANDOFFS)				
				4 PLACES	±---	±---	CHECKED BY MLAI	DATE 1987/09/21					
				3 PLACES	±---	±---	APPROVED BY MLONG	DATE 2009/11/10	MOLEX INCORPORATED				
H3				ANGULAR ± 3 °			MATERIAL NO. SEE TABLE		DOCUMENT NO. SDA-70247-**00-04		SHEET NO. 1 OF 2		
				DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS			SIZE A3		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																																																																																																																				
F	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:  MEASURE POINT FOR THICKNESS  MINIMUM COVERAGE  GOLD END OF PIN UNLESS OVERALL PLATED.  FINISH: - 51 : 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. - 52 : 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. - 54 : 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.  CHECK WITH SALES OFFICE FOR AVAILABILITY.  DIM AT THE CENTRE OF THE SHROUDED WALL SHALL BE 5.91MM MIN. THIS SPEC IS VALID FOR ALL CKT SIZE. 10. MATERIAL: HSG: PBT, GLASS FILLED, UL94V-0, COLOUR: BLACK (SPEC NO: 89992-0028) PIN: 0.64MM SQ. PIN PHOSPHOR BRONZE.  SOLDER TAIL POSITION TOLERANCE TO BE GAUGED.							<table><tr><th>PART NUMBER </th><th>CKT SIZE</th><th>DIM A</th><th>DIM B</th><th>DIM C</th><th>DIM D</th></tr><tr><td>70247-08**</td><td>08</td><td>7.62</td><td>14.73</td><td>17.78</td><td>15.24</td></tr><tr><td>70247-10**</td><td>10</td><td>10.16</td><td>17.27</td><td>20.32</td><td>17.78</td></tr><tr><td>70247-12**</td><td>12</td><td>12.70</td><td>19.81</td><td>22.86</td><td>20.32</td></tr><tr><td>70247-14**</td><td>14</td><td>15.24</td><td>22.35</td><td>25.40</td><td>22.86</td></tr><tr><td>70247-16**</td><td>16</td><td>17.78</td><td>24.89</td><td>27.94</td><td>25.40</td></tr><tr><td>70247-20**</td><td>20</td><td>22.86</td><td>29.97</td><td>33.02</td><td>30.48</td></tr><tr><td>70247-24**</td><td>24</td><td>27.94</td><td>35.05</td><td>38.10</td><td>35.56</td></tr><tr><td>70247-26**</td><td>26</td><td>30.48</td><td>37.59</td><td>40.64</td><td>38.10</td></tr><tr><td>70247-30**</td><td>30</td><td>35.56</td><td>42.67</td><td>45.72</td><td>43.18</td></tr><tr><td>70247-34**</td><td>34</td><td>40.64</td><td>47.75</td><td>50.80</td><td>48.26</td></tr><tr><td>70247-40**</td><td>40</td><td>48.26</td><td>55.37</td><td>58.42</td><td>55.88</td></tr><tr><td>70247-44**</td><td>44</td><td>53.34</td><td>60.45</td><td>63.50</td><td>60.96</td></tr><tr><td>70247-48**</td><td>48</td><td>58.42</td><td>65.53</td><td>68.58</td><td>66.04</td></tr><tr><td>70247-50**</td><td>50</td><td>60.96</td><td>68.07</td><td>71.12</td><td>68.58</td></tr><tr><td>70247-56**</td><td>56</td><td>68.58</td><td>75.69</td><td>78.74</td><td>76.20</td></tr><tr><td>70247-60**</td><td>60</td><td>73.66</td><td>80.77</td><td>83.82</td><td>81.28</td></tr><tr><td>70247-64**</td><td>64</td><td>78.74</td><td>85.85</td><td>88.90</td><td>86.36</td></tr><tr><td>70247-72**</td><td>72</td><td>88.90</td><td>96.01</td><td>99.06</td><td>96.52</td></tr></table>	PART NUMBER 	CKT SIZE	DIM A	DIM B	DIM C	DIM D	70247-08**	08	7.62	14.73	17.78	15.24	70247-10**	10	10.16	17.27	20.32	17.78	70247-12**	12	12.70	19.81	22.86	20.32	70247-14**	14	15.24	22.35	25.40	22.86	70247-16**	16	17.78	24.89	27.94	25.40	70247-20**	20	22.86	29.97	33.02	30.48	70247-24**	24	27.94	35.05	38.10	35.56	70247-26**	26	30.48	37.59	40.64	38.10	70247-30**	30	35.56	42.67	45.72	43.18	70247-34**	34	40.64	47.75	50.80	48.26	70247-40**	40	48.26	55.37	58.42	55.88	70247-44**	44	53.34	60.45	63.50	60.96	70247-48**	48	58.42	65.53	68.58	66.04	70247-50**	50	60.96	68.07	71.12	68.58	70247-56**	56	68.58	75.69	78.74	76.20	70247-60**	60	73.66	80.77	83.82	81.28	70247-64**	64	78.74	85.85	88.90	86.36	70247-72**	72	88.90	96.01	99.06	96.52				
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