

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

**Part Number:** [0015446804](#)  
**Status:** **Active**  
**Overview:** [cgrid\\_sl\\_products](#)  
**Description:** 2.54mm (.100") Pitch C-Grid® Receptacle, Through Hole, Dual Row, High Profile, Vertical, High-Temperature, 4 Circuits

**Documents:**

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

[Product Specification PS-70181 \(PDF\)](#)  
[RoHS Certificate of Compliance \(PDF\)](#)

**Agency Certification**

CSA LR19980  
UL E29179

**General**

Product Family PCB Receptacles  
Series [71850](#)  
Application Board-to-Board  
Overview [cgrid\\_sl\\_products](#)  
Product Name C-Grid®

**Physical**

Circuits (Loaded) 4  
Color - Resin Black  
Durability (mating cycles max) 25  
Flammability 94V-0  
Glow-Wire Compliant No  
Material - Metal Phosphor Bronze  
Material - Plating Mating Tin  
Material - Plating Termination Tin  
Material - Resin High Temperature Thermoplastic  
Number of Rows 2  
Orientation Vertical  
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) 150  
Plating min: Mating (µm) 3.75  
Plating min: Termination (µin) 150  
Plating min: Termination (µm) 3.75  
Polarized to PCB No  
Temperature Range - Operating -40°C to +105°C  
Termination Interface: Style Through Hole

**Electrical**

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

**Solder Process Data**

Lead-free Process Capability SMC & Wave Capable (TH only)  
Process Temperature max. C 260

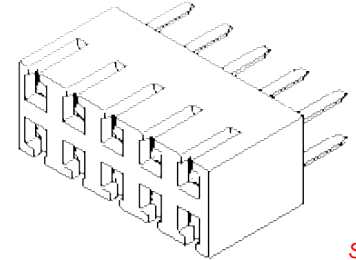


image - Reference only

Series

**EU RoHS**  
**ELV and RoHS**  
**Compliant**  
**REACH SVHC**  
Not Reviewed  
**Halogen-Free**  
**Status**  
**Not Reviewed**

**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**  
[71850Series](#)

**Mates With**

[8624](#) , [70203](#) , [70246](#) Straight Header,  
[70247](#) Right Angle Header, [70287](#) , [70289](#) , [70227](#) , [70567](#) , [70280](#) , [70524](#) , [70260](#) ,  
[8723](#) , [70568](#) , [8724](#) , [71764](#) , [70229](#) , [70216](#) , [71308](#)

**Material Info**

Old Part Number

71850-0065

**Reference - Drawing Numbers**

Packaging Specification

PK-70873-0660

Product Specification

PS-70181

Sales Drawing

SDA-71850-0\*\*\*

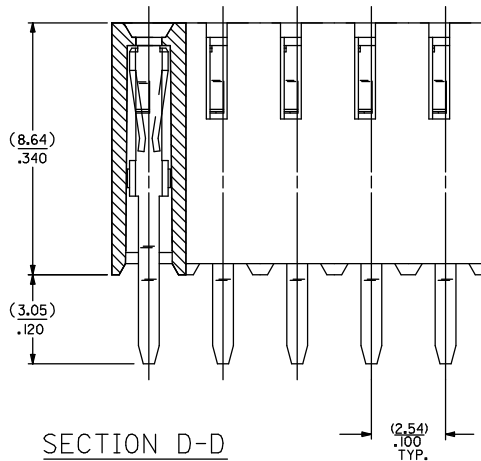
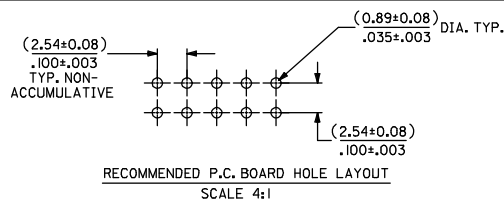
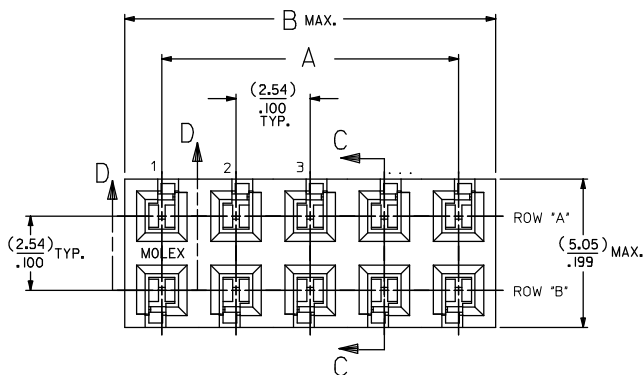
This document was generated on 05/31/2010

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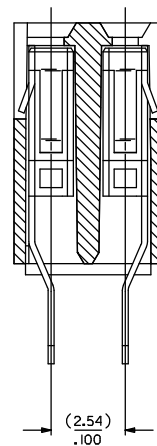
13 12 11 10 9 8 7 6 5 4 3 2 1

NOTES:

1. HOUSING MATERIAL: GLASS FILLED LIQUID CRYSTAL POLYMER, UL 94V-0, COLOR: BLACK.
2. TERMINAL MATERIAL: PHOSPHOR BRONZE
3. FINISHES: SEE CHART SHEET 2.
4. REFER TO PRODUCT SPECIFICATION PS-70181.
5. PACKAGING IN TRAYS PER PK-70873-0660.
6. SEE SHEET 2 FOR CIRCUIT SIZES AND OVERALL DIMENSIONS.
7. RECOMMENDED PCB THICKNESS (1.37-1.80)/.054-.071.
8. PART COMPLIES WITH CLASS C REQUIREMENTS OF COSMETIC SPECIFICATION PS-45499-002.



SECTION D-D



SECTION C-C

REMOVE 71850-0232 EC NO. UCP2009-015 DRAWING REVISION CHKD: K. P. PER APPR: E. SMITH REV	QUALITY SYMBOLS ▽=0 ▽=0	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM/IN		SCALE	DESIGN UNITS INCH	THIRD ANGLE PROJECTION	
		mm INCH		DRAWN BY DATE		TITLE			
		4 PLACES ±.005 ±.005		SKL 1988/02/29		SALES VERTICAL MOUNT DUAL ROW HIGH TEMP .100 X .100 PC GRID			
		3 PLACES ±.010 ±.010		CHECKED BY DATE					
		2 PLACES ±.013 ±.010		MJM 1988/02/29					
		1 PLACE ±.025 ±.025		APPROVED BY DATE					
		ANGULAR ±1/2°		WAZ 1988/02/29		MOLEX MOLEX INCORPORATED			
		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		MATERIAL NO.		DOCUMENT NO.		SHEET NO. 1 OF 2	
				SEE TABLE		SDA-71850-0***			
				SIZE		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION			

12 11 10 9 8 7 6 5 4 3 2 1

	13	12	11	10	9	8	7	6	5	4	3	2	1																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
J	CKT. SIZE													TERMINAL: 70172-0004 PLATING: TIN													TERMINAL: 70172-0006 PLATING: 15 GOLD													TERMINAL: 70172-0008 PLATING: 30 GOLD													DIM. "A"				DIM. "B"																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
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