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Part Number: [0877971800](#)
Status: **Active**
Overview: [cgrid_sl_products](#)
Description: 2.54mm (.100") Pitch C-Grid® Header, Through Hole, Dual Row Dual Body, Vertical, 18 Circuits, Gold (Au) Flash Plating, 9.35mm (.368") Stacking Height, Tray Packaging, Lead-free

Documents:

[Drawing \(PDF\)](#) [RoHS Certificate of Compliance \(PDF\)](#)
[Product Specification PS-87920-019 \(PDF\)](#)

Agency Certification

UL E29179

General

Product Family PCB Headers
 Series [87797](#)
 Application Board-to-Board
 Overview [cgrid_sl_products](#)
 Product Name C-Grid®, Dual Body

Physical

Breakaway Yes
 Circuits (Loaded) 18
 Circuits (maximum) 18
 Circuits Detail Voids at circuits 11 and 12
 Color - Resin Black
 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
 Mated Height (in) 0.481 In
 Mated Height (mm) 12.21 mm
 Material - Metal Copper Alloy
 Material - Plating Mating Gold
 Material - Plating Termination Nickel
 Material - Resin High Temperature Thermoplastic
 Number of Rows 2
 Orientation Vertical
 PC Tail Length (in) 0.253 In
 PC Tail Length (mm) 6.44 mm
 PCB Locator No
 PCB Retention None
 PCB Thickness Recommended (in) 0.063 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) 2
 Plating min: Mating (µm) 0.05
 Plating min: Termination (µin) 49
 Plating min: Termination (µm) 1.25

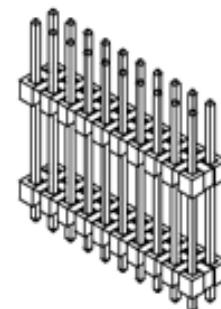


image - Reference only

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
 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
[87797Series](#)

Polarized to Mating Part	No
Polarized to PCB	No
Shrouded	No
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	3A
Voltage - Maximum	250V

Solder Process Data

Duration at Max. Process Temperature (seconds)	14
Lead-free Process Capability	Wave Capable (TH only)
Max. Cycles at Max. Process Temperature	1
Process Temperature max. C	265

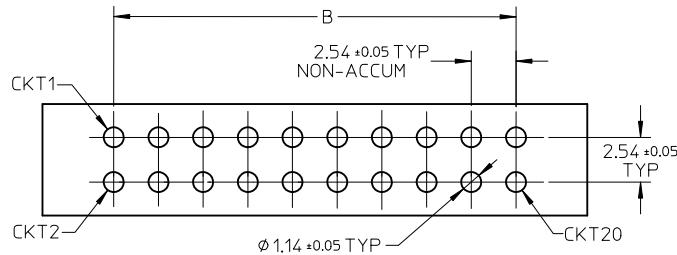
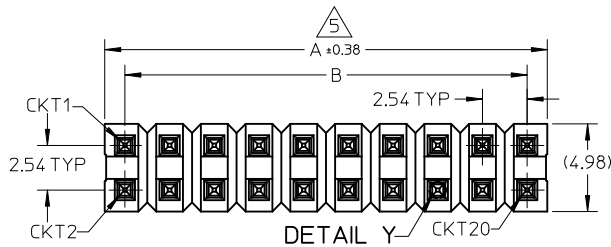
Material Info

Reference - Drawing Numbers

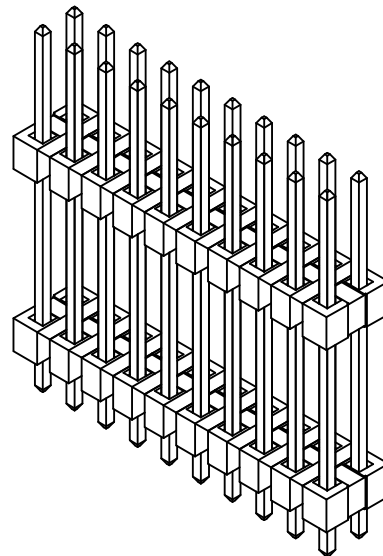
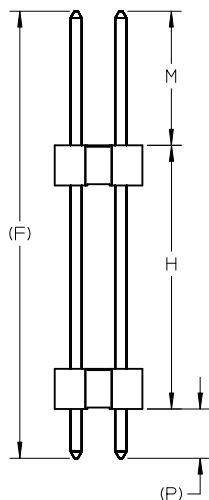
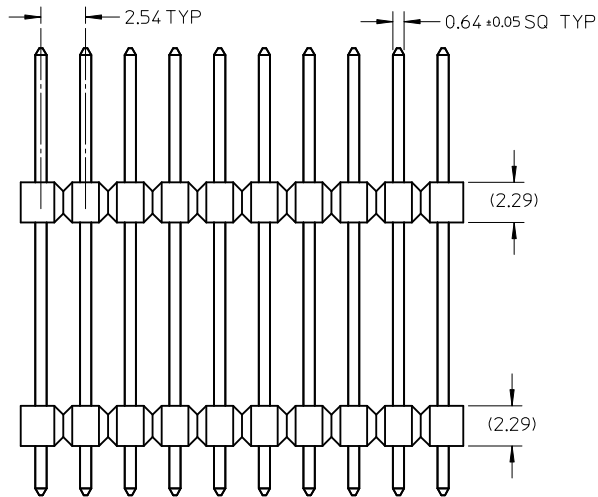
Packaging Specification	PK-89990-489
Product Specification	PS-87920-019
Sales Drawing	SD-87797-171

This document was generated on 05/26/2010

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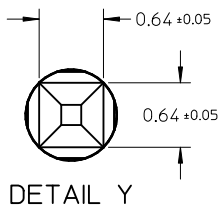


RECOMMENDED PCB LAYOUT: COMPONENT SIDE



NOTES:

1. MATERIAL:
 - HOUSING: LCP, GLASS FILLED, UL94V-0
 - COLOR: BLACK
 - PIN: COPPER ALLOY, SQ, 0.64MM
2. PLATING FINISH:
 - 1) GOLD FLASH OVERALL OVER 1.25µm MIN. NICKEL OVERALL
 - 2) 0.05µm MIN. GOLD IN CONTACT AREA AND 2.50µm MIN. TIN IN SOLDER AREA OVER 1.25µm MIN. NICKEL OVERALL
 - 3) 0.38µm MIN. GOLD IN CONTACT AREA AND 2.50µm MIN. TIN IN SOLDER AREA OVER 1.25µm MIN. NICKEL OVERALL
 - 4) 0.75µm MIN. GOLD IN CONTACT AREA AND 2.50µm MIN. TIN IN SOLDER AREA OVER 1.25µm MIN. NICKEL OVERALL
 - 5) 2.50µm MIN. TIN OVERALL 1.25µm MIN. NICKEL OVERALL
3. FOR PACKING OPTION PLEASE REFER TO THE TABLE.
4. THE ABOVE 20CKTS SHOWN IS FOR ILLUSTRATION ONLY.
5. IRREGULAR CIRCUIT CUTOFF WITHIN BREAKAWAY SECTION IS PERMISSIBLE. CUTTING OR CHIPPING OF THE MAIN BODY IS NOT ACCEPTABLE
6. WAFER TO BE FLAT WITHIN 0.003mm/mm
7. PARTS ARE NOT STACKABLE ON 2.54 CENTERS
8. RECOMMENDED PCB THICKNESS 1.60±0.10mm
9. PRODUCT SPEC: PS-87920-019
10. PACKAGING SPECIFICATION:
 - TRAY: PK-89990-489
 - BULK: PK-89990-491



DETAIL Y

+PN:2035/3024/7213/8025 EC NO: S2010-0917 DRW: NATSEE CHKD: PATEY APPR: M LONG	2010/04/30 2006/03/03 2010/05/13	DESCRIPTION REV	QUALITY SYMBOLS	GENERAL TOLERANCES (UNLESS SPECIFIED)	DIMENSION STYLE	SCALE	DESIGN UNITS	THIRD ANGLE PROJECTION	
			$\nabla_{A'}=0$ $\nabla_{E'}=0$ $\nabla_{F'}=0$	mm INCH 4 PLACES ± --- ± --- 3 PLACES ± --- ± --- 2 PLACES ± 0.20 ± --- 1 PLACE ± --- ± --- ANGULAR ± 3 °	MM ONLY	NTS	METRIC		
					DRAWN BY: SKLIM01 DATE: 2006/03/01 CHECKED BY: DATE: APPROVED BY: DATE: PATEY 2006/03/03	TITLE	CUSTOM HEADER 2.54MM PITCH DUAL ROW HEADER, THRU HOLE, VERT		
					MATERIAL NO. DOCUMENT NO. SHEET NO. SEE TABLE SD-87797-171 1 OF 2	MOLEX INCORPORATED			

