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**Part Number:** [10-89-7442](#)  
**Status:** **Active**  
**Overview:** C-Grid® Products  
**Description:** 2.54mm Pitch C-Grid® Breakaway Header, Dual Row, Vertical, High Temperature, 44 Circuits, 0.38µm Gold (Au) Selective Plating, Tin (Sn) PC Tail Plating, 2.72mm PC Tail

**Documents:**

[3D Model](#) [Product Specification PS-70280 \(PDF\)](#)  
[Drawing \(PDF\)](#) [RoHS Certificate of Compliance \(PDF\)](#)

**Agency Certification**

CSA LR19980  
 UL E29179

**General**

Product Family PCB Headers  
 Series [70280](#)  
 Application Board-to-Board, Signal, Wire-to-Board  
 Overview [C-Grid® Products](#)  
 Product Name C-Grid®  
 UPC 800755022001

**Physical**

Breakaway Yes  
 Circuits (Loaded) 44  
 Circuits (maximum) 44  
 Color - Resin Black  
 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 - Metal Copper Alloy  
 Material - Plating Mating Gold  
 Material - Plating Termination Tin  
 Material - Resin High Temperature Thermoplastic  
 Net Weight 3.935/g  
 Number of Rows 2  
 Orientation Vertical  
 PC Tail Length 2.79mm  
 PCB Locator No  
 PCB Retention None  
 PCB Thickness - Recommended 1.60mm  
 Packaging Type Bag  
 Pitch - Mating Interface 2.54mm  
 Plating min - Mating 0.381µm  
 Plating min - Termination 2.032µm  
 Polarized to Mating Part No  
 Polarized to PCB No  
 Shrouded No  
 Stackable Yes  
 Temperature Range - Operating -40°C to +105°C  
 Termination Interface: Style Through Hole



*image - Reference only*

**EU RoHS**

**ELV and RoHS  
 Compliant**

**REACH SVHC**

**Contains SVHC: No  
 Low-Halogen Status  
 Low-Halogen**

**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**

[70280Series](#)

**Electrical**

Current - Maximum per Contact 3A  
Voltage - Maximum 250V

**Solder Process Data**

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

**Material Info**

Old Part Number 70280-0062

**Reference - Drawing Numbers**

Product Specification PS-70280  
Sales Drawing SDA-70280-0001-4000

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