

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

**Part Number:** [0900590009](#)  
**Status:** **Active**  
**Overview:** [cgrid\\_iii|cgrid\\_sl\\_products](#)  
**Description:** 2.54mm (.100") Pitch C-Grid® Micro Shunt, Low Profile, 15mm" Select Gold (Au) with Gold (Au) Flash Plating

**Documents:**

[3D Model](#) [Product Specification PS-90059 \(PDF\)](#)  
[Drawing \(PDF\)](#) [RoHS Certificate of Compliance \(PDF\)](#)

**Agency Certification**

CSA LR19980  
 UL E29179

**General**

Product Family Accessories  
 Series [90059](#)  
 Component Type Shunt  
 Overview [cgrid\\_iii|cgrid\\_sl\\_products](#)  
 Product Name C-Grid®, C-Grid III™, SL™

**Physical**

Circuits (Loaded) 2  
 Circuits (maximum) 2  
 Color - Resin Natural  
 Flammability 94V-0  
 Gender Female  
 Lock to Mating Part None  
 Material - Metal Phosphor Bronze  
 Material - Plating Mating Gold  
 Material - Plating Termination Nickel  
 Material - Resin Polyester  
 Number of Rows 1  
 Packaging Type Bag  
 Plating min: Mating (µin) 15.2  
 Plating min: Mating (µm) 0.38  
 Plating min: Termination (µin) 8  
 Plating min: Termination (µm) 0.2  
 Temperature Range - Operating -55°C to +125°C  
 Termination Interface: Style Surface Mount

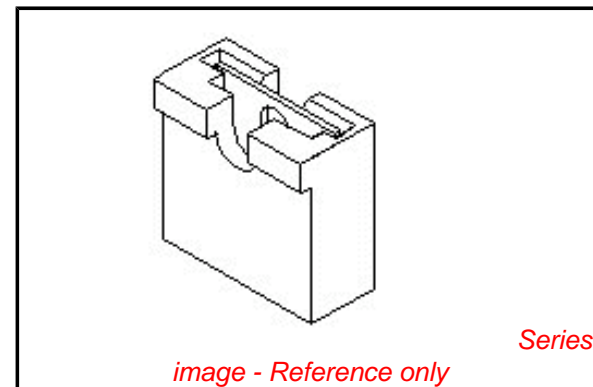
**Electrical**

Current - Maximum per Contact 3A

**Material Info**

**Reference - Drawing Numbers**

Product Specification PS-90059  
 Sales Drawing SDA-90059



*image - Reference only*

**EU RoHS**

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

**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.

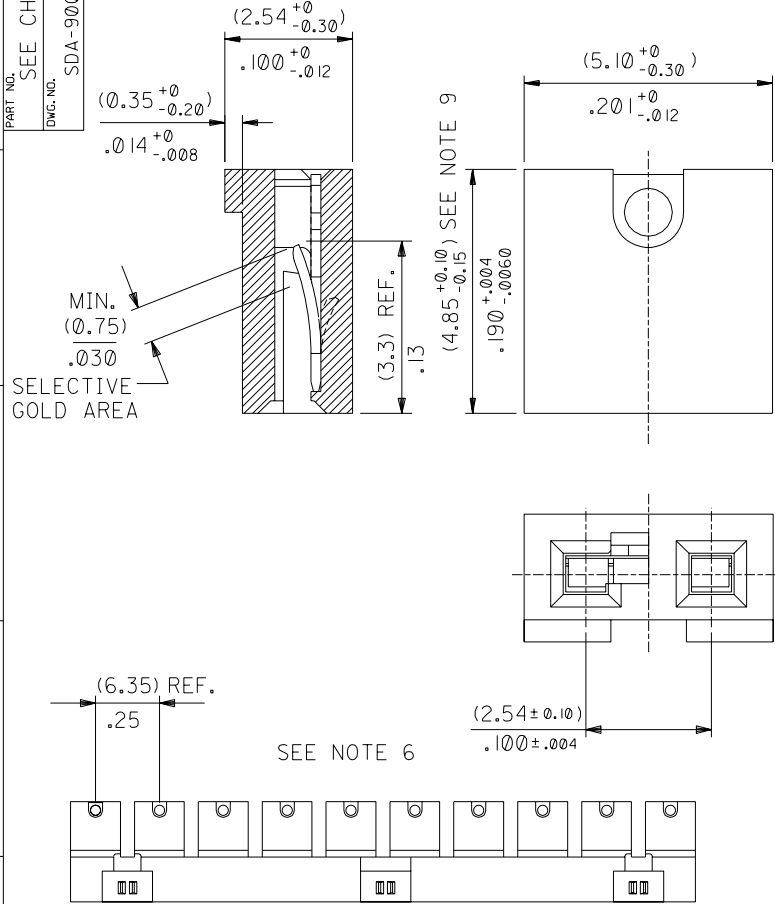
**Search Parts in this Series**

90059Series

**Use With**

(0.64)/.025 square and round pins

PART NO. SEE CHART  
DWG. NO. SDA-90059



- NOTES:
- HOUSING MATERIAL: POLYESTER 30% GLASS FILLED.
  - TERMINAL MATERIAL: PHOSPHOR BRONZE.
  - THIS PART IS STACKABLE, END TO END AND SIDE BY SIDE ON (2.54)/.100 CENTRES.
  - SHUNT WILL ACCEPT (0.64)/.025 SQUARE AND ROUND PINS.
  - MAX. PROBE DIA. (0.9)/.035.
  - PARTS SUPPLIED IN STRIPS OF TEN OR AS LOOSE PIECE (SEE CHART).
  - VERSIONS 90059-0007,90059-0009 PREFERRED IN EUROPE/AMERICA.
  - VERSIONS 90059-0013,90059-0014,90059-0015 PREFERRED IN FAR EAST.
  - DIMENSION APPLIES TO MOULDED HOUSING ONLY. BREAK-OFF (5.10)/.201 MAX.

SUPPLIED AS STRIP/LOOSE	PART No	TERMINAL PLATING	HSG. COLOUR	PACKAGING INNER QTY.	PACKAGING QTY.PER BOX
⑦ STRIP	90059-0007	TIN (5u)/.0002 MIN. OVER NI (1.27u)/.00005 MIN.	BLACK	1000 pcs	20,000 pcs
LOOSE	90059-1007	TIN (5u)/.0002 MIN. OVER NI (1.27u)/.00005 MIN.	BLACK	10,000 pcs	40,000 pcs
STRIP	90059-0009	GOLD (0.38u)/.000015 MIN IN CONTACT AREA OVER NICKEL (1.27u)/.00005 IN CONTACT AREA WITH NICKEL (0.2u)/.000008 OVERALL MIN.	WHITE	1000 pcs	20,000 pcs
LOOSE	90059-1009	GOLD (0.38u)/.000015 MIN IN CONTACT AREA OVER NICKEL (1.27u)/.00005 IN CONTACT AREA WITH NICKEL (0.2u)/.000008 OVERALL MIN.	WHITE	10,000 pcs	40,000 pcs
STRIP	90059-0011	GOLD (0.38u)/.000015 MIN IN CONTACT AREA OVER NICKEL (1.27u)/.00005 IN CONTACT AREA WITH NICKEL (0.2u)/.000008 OVERALL MIN.	BLACK	1000 pcs	20,000 pcs
⑧ STRIP	90059-0012	GOLD (0.76u)/.000030 MIN IN CONTACT AREA OVER NICKEL (1.27u)/.00005 IN CONTACT AREA WITH NICKEL (0.2u)/.000008 OVERALL MIN.	WHITE	1000 pcs	20,000 pcs
⑨ STRIP	90059-0013	0.76um OF Ni UNDER 3 - 5 um OF TIN	BLACK	1000 pcs	20,000 pcs
⑧ STRIP	90059-0014	GOLD (0.1u)/.000004 MIN OVERALL OVER (1.0u)/.00004 MIN NICKEL OVERALL	WHITE	1000 pcs	20,000 pcs
STRIP	90059-0015	GOLD (1.0u)/.00004 MIN IN CONTACT AREA OVER NICKEL (0.76u)/.00003 IN CONTACT AREA WITH NICKEL (0.2u)/.000008 OVERALL MIN.	WHITE	1000 pcs	20,000 pcs
STRIP	90059-0016	GOLD (0.38u)/.000015 MIN IN CONTACT AREA OVER NICKEL (1.27u)/.00005 IN CONTACT AREA WITH NICKEL (0.2u)/.000008 OVERALL MIN.	RED	1000 pcs	20,000 pcs
LOOSE	90059-1011	GOLD (0.38u)/.000015 MIN IN CONTACT AREA OVER NICKEL (1.27u)/.00005 IN CONTACT AREA WITH NICKEL (0.2u)/.000008 OVERALL MIN.	BLACK	10,000 pcs	40,000 pcs
STRIP	90059-0017	TIN (5u)/.0002 MIN. OVER NI (1.27u)/.00005 MIN.	WHITE	1000 pcs	20,000 pcs
STRIP	90059-0018	GOLD (0.38u)/.000015 MIN IN CONTACT AREA OVER NICKEL (1.27u)/.00005 IN CONTACT AREA WITH NICKEL (0.2u)/.000008 OVERALL MIN.	BLUE	1000 pcs	20,000 pcs
STRIP	90059-0020	GOLD (0.1u)/.000004 MIN OVERALL OVER (1.0u)/.00004 MIN NICKEL OVERALL	BLACK	1000 pcs	20,000 pcs
LOOSE	90059-1020	GOLD (0.1u)/.000004 MIN OVERALL OVER (1.0u)/.00004 MIN NICKEL OVERALL	BLACK	10,000 pcs	40,000 pcs

CHANGE TIN/LEAD TO TIN. UPDATE LOOSE PKT. QTY. EC NO. E2004-0584 DRWN: M McS 04/01/05 CHK: / / / APPR: / / /	QUALITY SYMBOLS MAJOR CRITICAL	GENERAL TOLERANCES: (UNLESS SPECIFIED)		SCALE 10:1	DESIGN UNITS <input checked="" type="checkbox"/> mm <input type="checkbox"/> INCH	THIRD ANGLE PROJECTION	DIMENSIONS: <input checked="" type="checkbox"/> mm <input type="checkbox"/> INCH <input type="checkbox"/> mm ONLY		SHT	REV
		4 PLACES ±0.1	±.	DRAWN BY & DATE mcc 86/04/08		TITLE: 2.54mm C-Grid Micro Shnt				
		3 PLACES ±0.05	±.	CHECKED BY & DATE dbrennan 00/07/26						
		1 PLACE ±0.10	±.	APPROVED BY & DATE mwilite 00/07/26		MOLEX INCORPORATED				
AR	REV	ANGULAR: ± 1°		CAD FILENAME	MATERIAL NO. SEE CHART	DRAWING NO. SDA-90059	SHEET NO. 1 of 2		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION.	