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**Part Number:** [0559092474](#)  
**Status:** **Active**  
**Overview:** SlimStack™  
**Description:** 0.40mm (.016") Pitch Board-to-Board SlimStack™ Plug, Surface Mount, Dual Row, Vertical Stacking, Lead-free, 24 Circuits

**Documents:**

[3D Model](#) [Product Specification PS-51338-002 \(PDF\)](#)  
[Drawing \(PDF\)](#) [RoHS Certificate of Compliance \(PDF\)](#)

**General**

Product Family	PCB Headers
Series	55909
Application	Board-to-Board
Comments	Solder Tab Plating: Tin
Overview	<a href="#">SlimStack™</a>
Product Name	SlimStack™

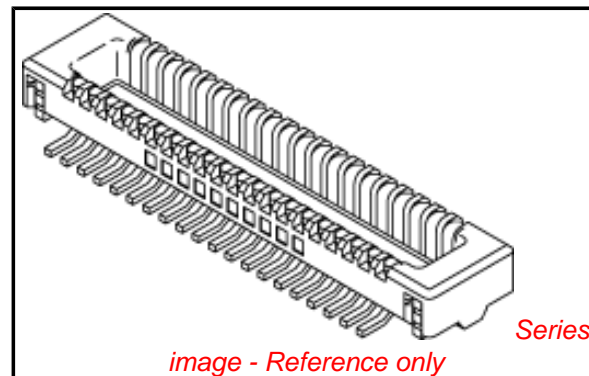
  

**Physical**

Breakaway	No
Circuits (Loaded)	24
Circuits (maximum)	24
Color - Resin	Black
Durability (mating cycles max)	30
First Mate / Last Break	No
Glow-Wire Compliant	No
Guide to Mating Part	No
Keying to Mating Part	None
Lock to Mating Part	Yes
Mated Height (in)	0.059 In, 0.071 In
Mated Height (mm)	1.50 mm, 1.80 mm
Material - Metal	Brass, Phosphor Bronze
Material - Plating Mating	Gold
Material - Plating Termination	Gold
Material - Resin	High Temperature Thermoplastic
Number of Rows	2
Orientation	Vertical
PC Tail Length (in)	0.020 In
PC Tail Length (mm)	0.50 mm
PCB Locator	No
PCB Retention	Yes
Packaging Type	Embossed Tape on Reel
Pitch - Mating Interface (in)	0.016 In
Pitch - Mating Interface (mm)	0.40 mm
Plating min: Mating (µin)	10
Plating min: Mating (µm)	0.25
Plating min: Termination (µin)	4
Plating min: Termination (µm)	0.1
Shrouded	Fully
Stackable	No
Temperature Range - Operating	-25°C to +85°C
Termination Interface: Style	Surface Mount

**Electrical**

Current - Maximum per Contact	0.3A
Voltage - Maximum	50V



**EU RoHS**

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

**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**

[55909Series](#)

**Mates With**

Board-to-Board SlimStack™ Receptacle  
[51338](#) , [500913](#)

## Material Info

### Reference - Drawing Numbers

Product Specification

PS-51338-002, RPS-500913-005, RPS-51338-012,  
RPS-51338-013, RPS-51338-018, RPS-51338-019,  
RPS-51338-020, RPS-51338-022, RPS-51338-025,  
RPS-51338-027, RPS-51338-030, RPS-51338-031,  
RPS-55909-001

Sales Drawing

SD-55909-003, SD-55909-004

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