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**Part Number:** [0438100019](#)  
**Status:** **Active**  
**Description:** 4.20mm (.165") Pitch Mini-Fit SMC™ Surface Mount Compatible Header, Dual Row, Right Angle, for 1.60mm (.063") PCB, 18 Circuits, Gold (Au) Plating, with Solderable Retention Clip

**Documents:**

[3D Model](#) [Product Specification PS-43810-001 \(PDF\)](#)  
[Drawing \(PDF\)](#) [RoHS Certificate of Compliance \(PDF\)](#)

**General**

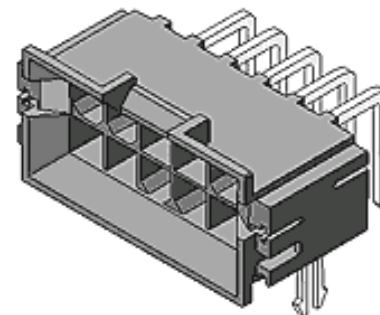
|                |                                      |
|----------------|--------------------------------------|
| Product Family | PCB Headers                          |
| Series         | 43810                                |
| Application    | Board-to-Board                       |
| Application    | Wire-to-Board                        |
| Comments       | 9A max. with Mini-Fit HCS™ Terminals |
| Product Name   | Mini-Fit SMC™                        |

**Physical**

|                                |                                |
|--------------------------------|--------------------------------|
| Breakaway                      | No                             |
| Circuits (Loaded)              | 18                             |
| Circuits (maximum)             | 18                             |
| Color - Resin                  | Black                          |
| Durability (mating cycles max) | 30                             |
| Flammability                   | 94V-0                          |
| Glow-Wire Compliant            | No                             |
| Material - Metal               | Brass                          |
| Material - Plating Mating      | Gold                           |
| Material - Plating Termination | Gold                           |
| Material - Resin               | High Temperature Thermoplastic |
| Number of Rows                 | 2                              |
| Orientation                    | Right Angle                    |
| PC Tail Length (in)            | 0.138 In                       |
| PC Tail Length (mm)            | 3.50 mm                        |
| PCB Locator                    | Yes                            |
| PCB Retention                  | Yes                            |
| PCB Thickness Recommended (in) | 0.062 In                       |
| PCB Thickness Recommended (mm) | 1.60 mm                        |
| Packaging Type                 | Tray                           |
| Pitch - Mating Interface (in)  | 0.165 In                       |
| Pitch - Mating Interface (mm)  | 4.20 mm                        |
| Plating min: Mating (µin)      | 30                             |
| Plating min: Mating (µm)       | 0.76                           |
| Plating min: Termination (µin) | 30                             |
| Plating min: Termination (µm)  | 0.76                           |
| Polarized to PCB               | Yes                            |
| Shrouded                       | Partial                        |
| Stackable                      | No                             |
| Surface Mount Compatible (SMC) | Yes                            |
| Temperature Range - Operating  | -40°C to +105°C                |
| Termination Interface: Style   | Through Hole                   |

**Electrical**

|                   |         |
|-------------------|---------|
| CSA               | LR19980 |
| Current - Maximum | 6A      |
| UL                | E29179  |
| Voltage - Maximum | 600V    |



Series image - Reference only

**EU RoHS**

**ELV and RoHS  
Compliant**

**REACH SVHC  
Contains SVHC: No  
Halogen-Free  
Status**

**Not Reviewed**

**China RoHS**



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Please visit the [Contact Us](#) section for any non-product compliance questions.

|                               |                              |
|-------------------------------|------------------------------|
| Duration at Max.              | 5                            |
| Process Temperature (seconds) |                              |
| Lead-free Process Capability  | SMC & Wave Capable (TH only) |
| Max. Cycles at Max.           | 1                            |
| Process Temperature           |                              |
| Process Temperature max. C    | 235                          |

**Search Parts in this Series**

[43810 Series](#)

**Mates With**

[42385](#) , [42474](#) , [44475](#) , [44516](#) , [5557d](#)

**Material Info**

**Reference - Drawing Numbers**

Product Specification

Sales Drawing

PS-43810-001

SD-43810-011

This document was generated on 11/05/2009

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