

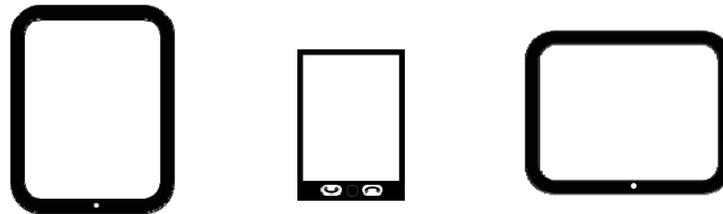
SF50 Series

Pull-Bar Type Micro SIM Card Connector

Connector Training Module

Application Examples

- Mobile/ Smartphone
- Tablets
- E-book
- Other devices with Micro SIM cards



SF50 Series Overview

The SF50 series is a SIM Card connector that is low-profiled and saves space which is best suited for devices with limited mounting space. It has a simple structure and it is easy to handle, with a pull-bar that makes operating the device easy. The SF50 series offers a variety of designs, from standard to reverse mounting type, to left-side or right-side pull bars.



SF50 Series Features

Low Profile, Saves Space

- Low profile design with a height of 1.2mm, width of 13.6mm, and depth of 15.6mm
- Simple structure – Easy to handle
- Easy operation with the pull-bar
- The pull-bar material is 46Nylon and it can be reflowed, which makes the connector flexible but also strong enough to push or pull.
- Standard and reverse mounting options are available for design flexibility
Left or right side pull-bar types are available as well.
- Balanced 6 hold-down points for good EMI performance.
- Supports automated mounting with the embossed tape.
- Lead-free, halogen-free product

*SIM stands for Subscriber Identity Module

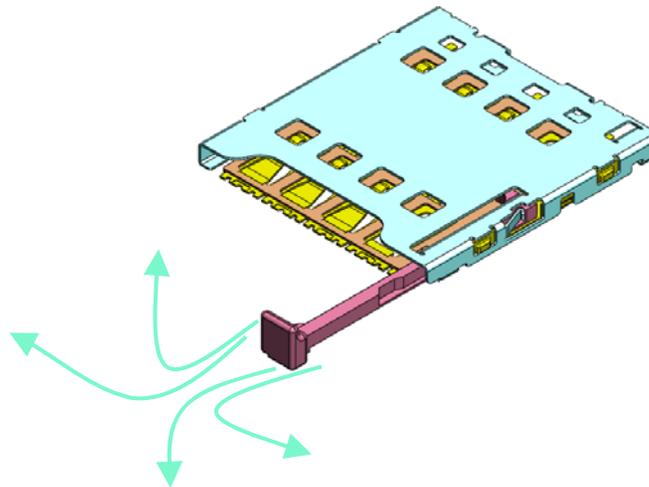
SF50 Series Features

Pulling-bar has absolute intensity.

JAE conducted a bending test to ensure the pulling-bar's durability.

Testing Method:

The bar was pulled and bent 90 degrees in four different directions, as shown in the below image. 10 samples were tested 10 times, with no signs of breakage.

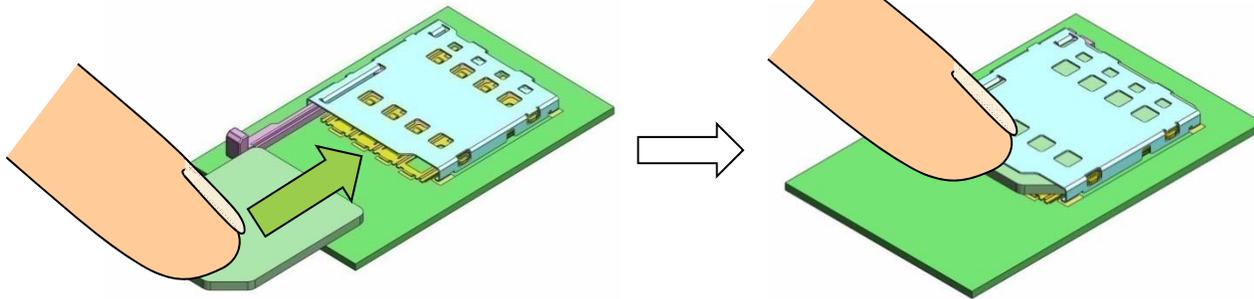


*Pull-bar tested for breakage

JAE Micro SIM Card Connector, SF50 Series

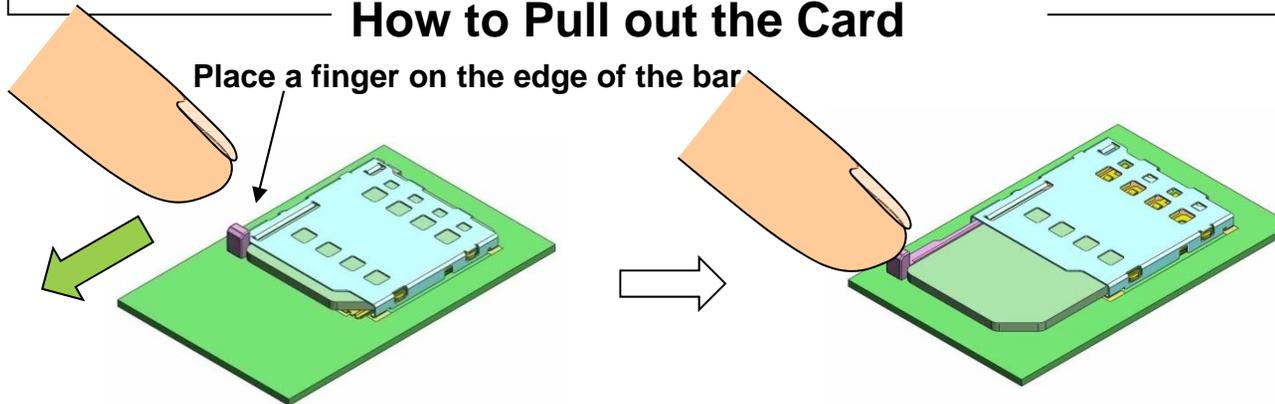
How to Insert/Pull Out the Micro SIM Card

How to insert a card



Note: Place a finger on the card and slide the card in. The pull-bar will slide in with the card. The card can be inserted regardless of the position of the bar.

How to Pull out the Card



Place a finger on the edge of the bar

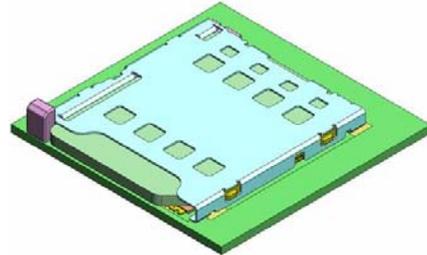
The "L" shaped hook at the edge of the pull-bar is for SIM card ejection.

SF50 Series Line Up

Standard Type

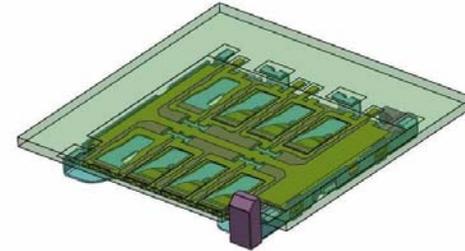
Reverse Type

<Type A>



PN: SF50S006V4A

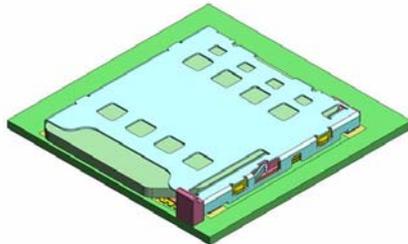
<Type B>



PN:SF50S006V4BR1200

Pull-bar
on
Left side

<Type C>



PN: SF50S006V4C

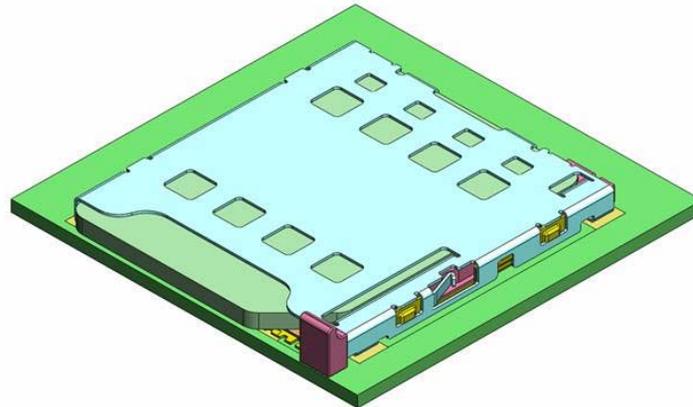
Pull-bar
on
Right side

Available in 3 Types

Flexible in Design!

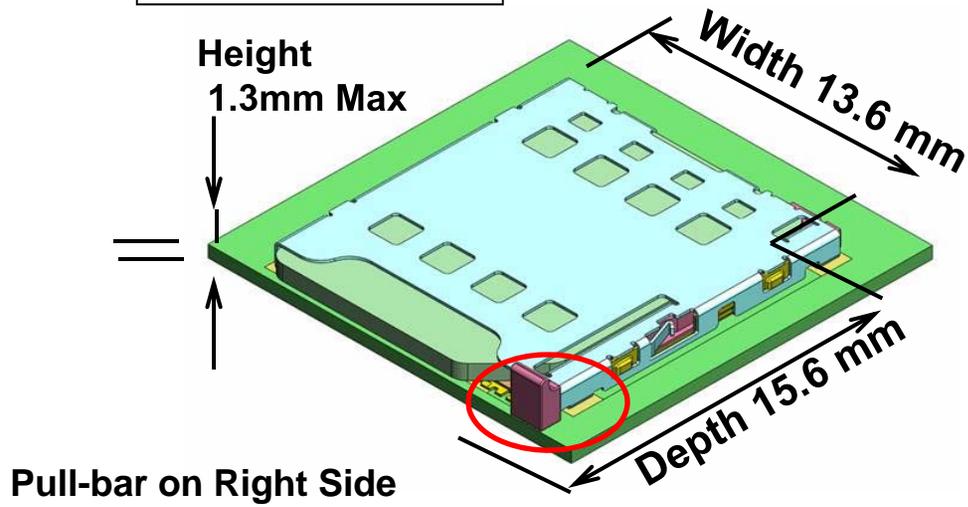
General Specifications

No. of Contacts	6 pos
Dimensions (mm)*1	H: 1.2 x W: 13.6 x D: 15.6
Contact resistance	100m Ω max.
Dielectric Withstanding Voltage	AC 500 V.r.m.s. per minute
Operating Temperature Range	-25 to + 85 °C
Rated Current	0.5A /per pin
Mating Durability	5,000 times

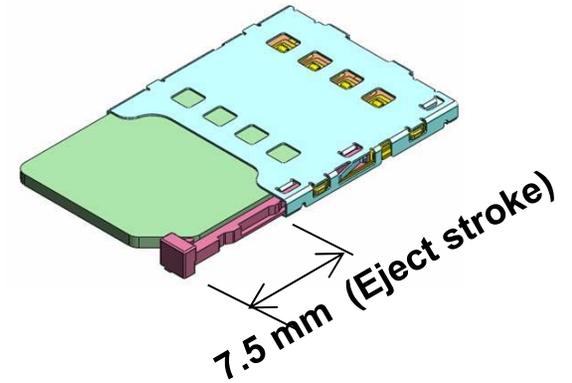


Basic Dimensions

Size Dimension



Ejected Condition



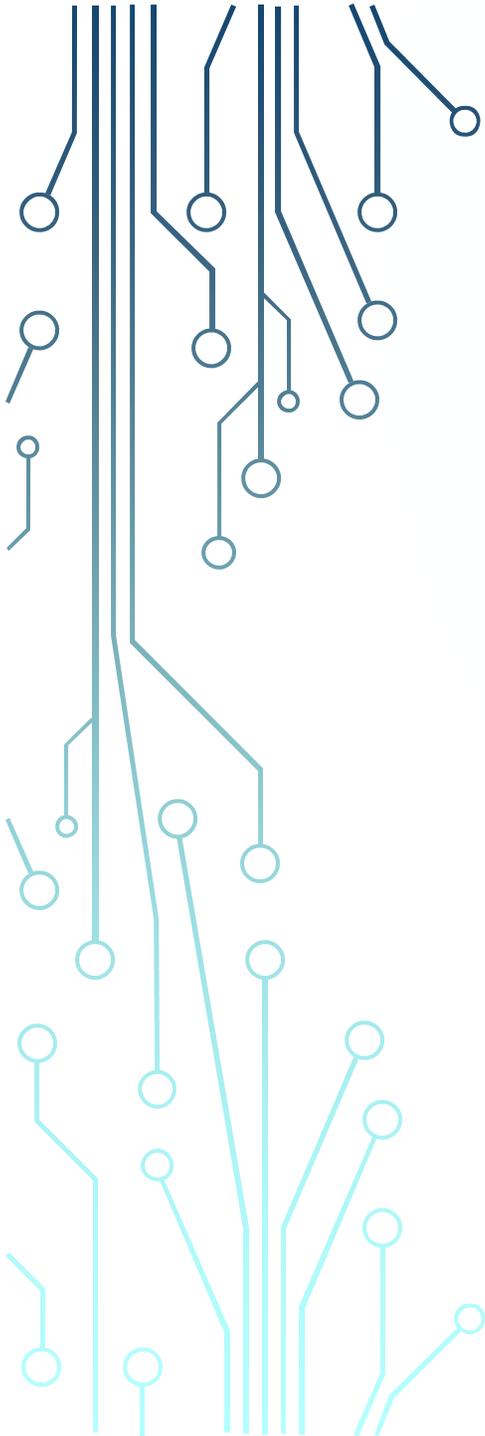
Materials and Finishes

Component	Material / Finish
Contact	Copper alloy / Au plating over Ni (contact area)
Housing	Synthetic resin
Cover Frame	Stainless steel / Terminal area: Au flash plating over Ni
Pull Bar	Synthetic resin / Black



Summary

- Low-profile, space saving design
- Best suited for devices with limited mounting space
- Simple structure and easy to handle
- Featured with a pull-bar for consumer convenience
- Multiple mounting options are available for design flexibility
- Balanced 6 hold-down points for good EMI performance.
- Lead-free, halogen-free product



Technology to Inspire Innovation

JAE