# Dual nano SIM Card Conector
SF78 Series

CONNECTOR
MB-0318-2
Feb.2022

RoHS Compliant
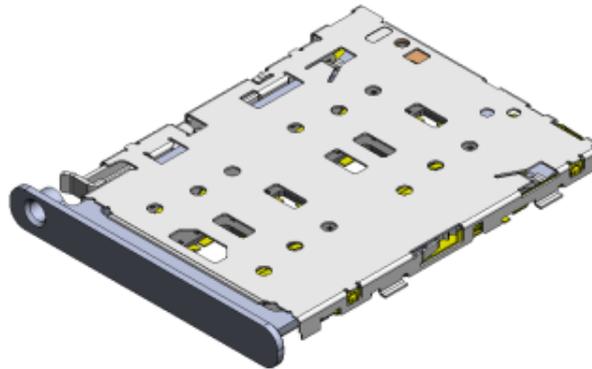
For mobile devices with communication capabilities such as feature phones, smartphones, and mobile routers, a SIM card is required, and recently mobile device which can hold two SIM cards are increasing.
Furthermore, the cards being adopted are shifting from micro SIM cards to smaller nano SIM (4FF) cards.
The SF78 Series is a push-eject tray type dual nano SIM card connector which can install two nano SIM cards.
(SIM: **S**ubscriber **I**dentity **M**odule)

Applicable Market
Mobile phones, smartphones, tablet PCs, notebook PCs, and other small portable devices

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Features

- Compact and slim design --- 1.3 mm height, 17.5 mm width, 21.4 mm depth
- 2 nano SIM cards can be installed in one connector
- Card mating condition --- With card detection switch (normally-closed type)
- Contact buckling prevention structure that prevents deformation of the contacts even if an empty card adapter is inserted.
- Mechanical lock structure that holds tray in place in case device is dropped
- Tray mis-insertion countermeasure to prevent insertion of tray upside down
- Compatible with nano SIM Cards that are manually cut to size by user

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General Specifications

Number of Contacts	12 positions
Insulation Resistance	100MΩ min. (initial)
Dielectric Withstanding Voltage	AC500V rms. for 1 minute
Durability	2,500 mating cycles
Operating Temperature Range	-40 ~ +85
Rated Current	0.5A
Rated Voltage	10 V

Materials and Finishes

Components	Materials	Finishes
Signal Contact	Copper alloy	Au plating over Ni (Contact area) Au plating over Ni (Board mounting area)
Housing	Synthetic Resin	
Cover	Stainless steel	Au plating over Ni (Board mounting area)
Detection Switch	Copper alloy	Au plating over Ni (Contact area) Au plating over Ni (Board mounting area)
Eject Bar	Stainless steel	
Eject Lever	Stainless steel	

Ordering Information

SF78 S 012 V B A R1400

Series

Connector Type
S: Non-ZIF structure

No. of Contacts

Connection Type
V: SMT mounting with hold-downs

Plating Specification
B: Au / Au flash plating

Modification Code

Reeled Part Number (Note)

Note) An embossed tape reel contains 1,400 pcs.

Please contact us for details on embossed tape specifications.

Outer Dimensions
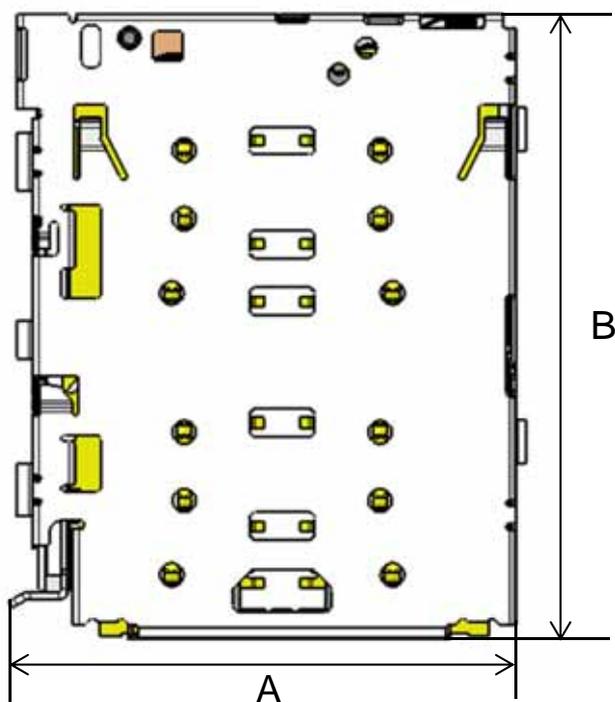
Unit: mm

Dimensions / Product name	A	B	C
SF78SO12VBA	17.15	21.4	1.3

Recommended Tray External Dimensions
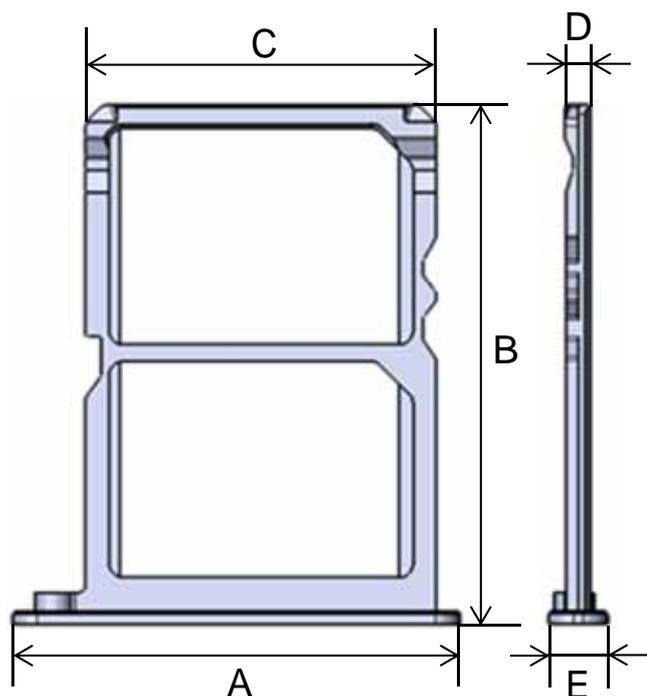
Unit: mm

Dimensions Product name	A	B	C	D	E
Tray	18.34	21.5	14.34	1.03	2.38

Note 1: Above are recommended dimensions for tray which should be designed and manufactured by customers.

Note 2: The drawing above is for reference only.
Please refer to our latest product drawing when using this product.

Product Drawings and Specifications

Part Number	Drawing Number	Specifications	Handling Instructions
SF78S012VBAR1400	SJ117282(Individual Product) SJ117283(Reeled Product)	JACS-11140	JAHL-11140

Japan Aviation Electronics Industry, Limited

* The specifications in this brochure are subject to change without notice. Please contact JAE for information.