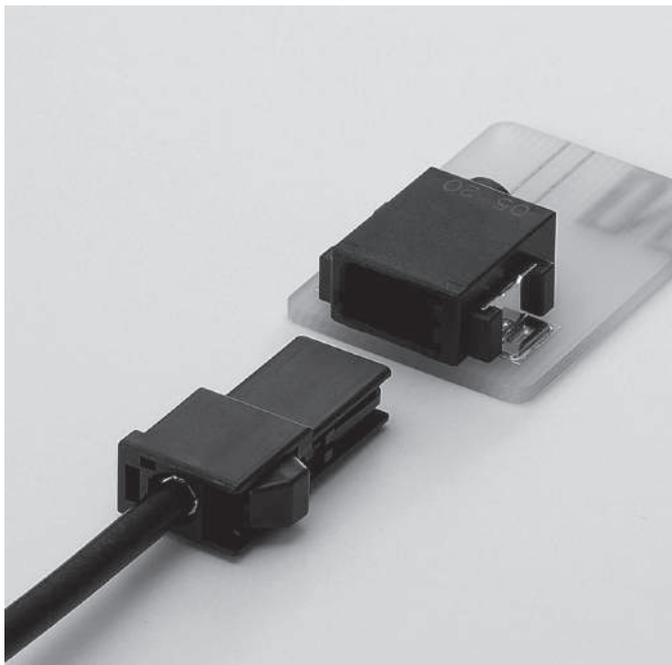
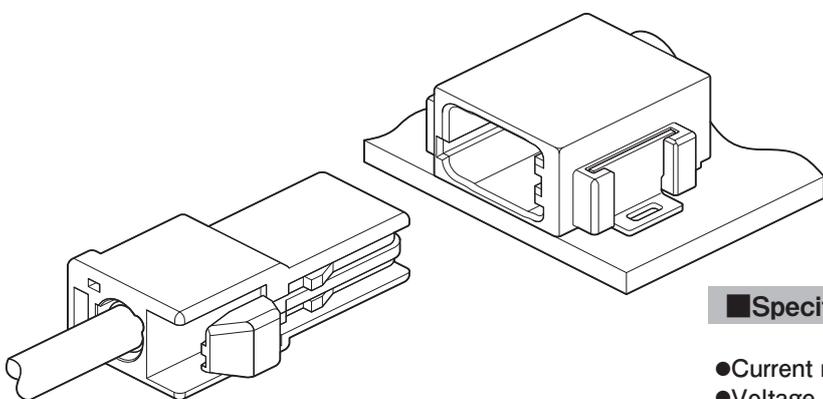


# EA1 CONNECTOR

Board-to-wire/High frequency



Connector was developed as a coaxial connector for high-frequency application to automobile. This connector achieves low profile and miniaturization.



## ■Features

### ●Compact, low profile design

Miniaturized compared to the conventional coaxial connector for automobile.

The lowest profile is achieved as an on-board type connector.

### ●Superb high-frequency performance

V.S.W.R of this connector achieves 1.5 or less.

### ●Locking structure

The locking feature will avoid the housing coming off due to wiring process and external shock and mis-insertion of the connector.

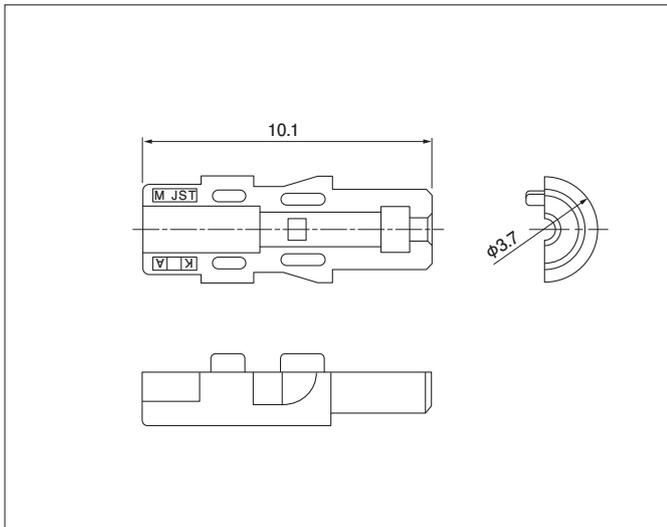
## ■Specifications

- Current rating: 1.0 A AC, DC
- Voltage rating: 250 V
- Temperature range: -40°C to +105°C  
(including temperature rise in applying electrical current)
- Contact resistance:
  - Inner conductor; Initial value/ 20 mΩ max.  
After environmental tests/ 20 mΩ max.
  - Outer conductor; Initial value/ 35 mΩ max.  
After environmental tests/ 35 mΩ max.
- Insulation resistance: 1,000 MΩ min.
- Withstanding voltage: 300 VAC/minute
- Applicable wire: 1.5DS-GXC-SP  
made by Sumitomo (SEI) Electronic Wire, Inc.  
(Inner conductor/  $\phi$ 0.6 mm, Insulation/  $\phi$ 1.6 mm,  
Outer conductor O.D./  $\phi$ 2.2 mm, Sheath/  $\phi$ 3.0 mm)
- Frequency range: DC to 6 GHz
- Characteristic impedance: 50  $\Omega$

\* Compliant with ELV/RoHS.

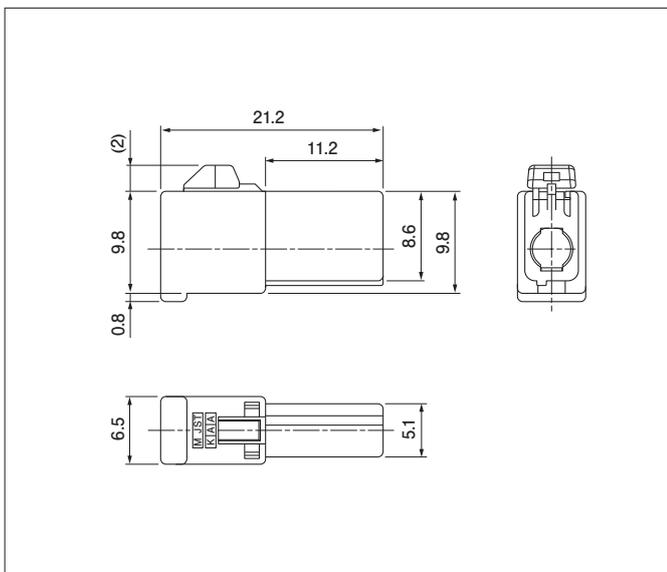
\* Contact JST for details.

## Inner housing



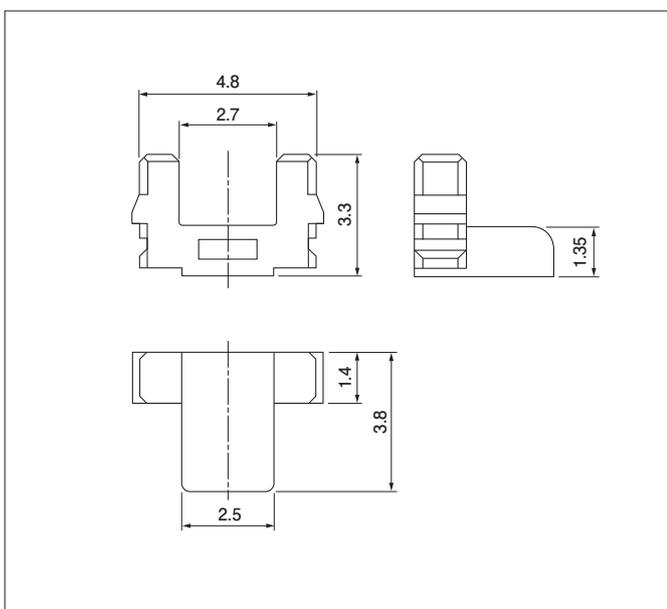
Model No.	Q'ty/box
EA1-PHN-4S	1,000
Material and Finish	
Thermoplastic resin, Natural (White)	

## Outer housing



Model No.	Q'ty/box
EA1-PHG-1K-A	240
Material and Finish	
PBT, Black	

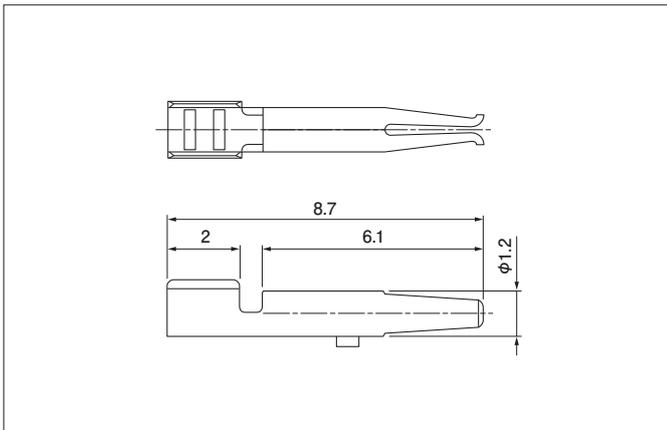
## Retainer



Model No.	Q'ty/box
EA1-PRT-3H	5,000
Material and Finish	
Glass-filled PBT, Gray	

# EA1 CONNECTOR

## Female terminal



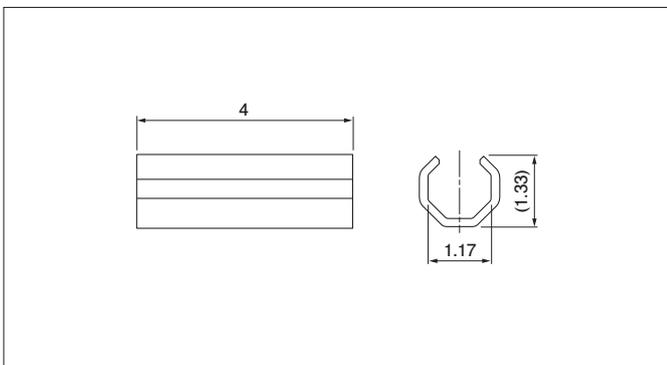
Model No.	Q'ty/reel
EA1-SCS342	25,000

### Material and Finish

Phosphor bronze, nickel-undercoated  
 Contact area; gold-plated  
 Barrel area; tin-plated (reflow treatment)

Note: This product displays (LF)(SN) on a label.

## Sleeve

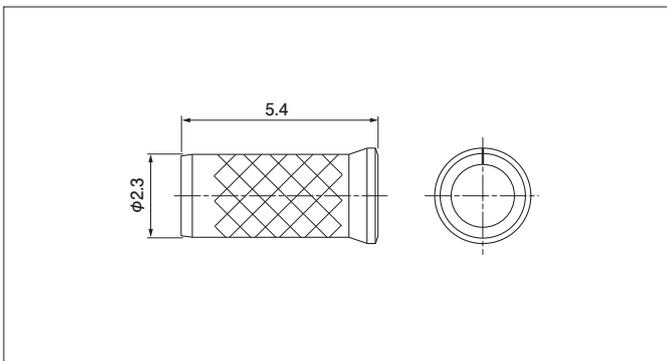


Model No.	Q'ty/box
EA1-SLP290	10,000

### Material and Finish

Copper alloy, tin-plated (reflow treatment)

## Ferrule

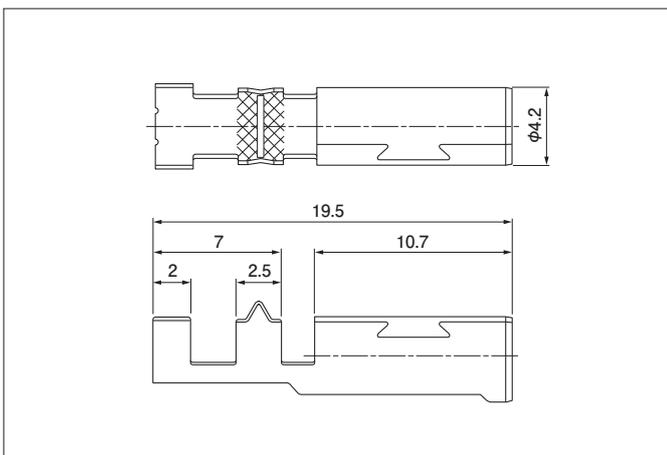


Model No.	Q'ty/box
EA1-FLP290A	5,000

### Material and Finish

Copper alloy, tin-plated (reflow treatment)

## Shell



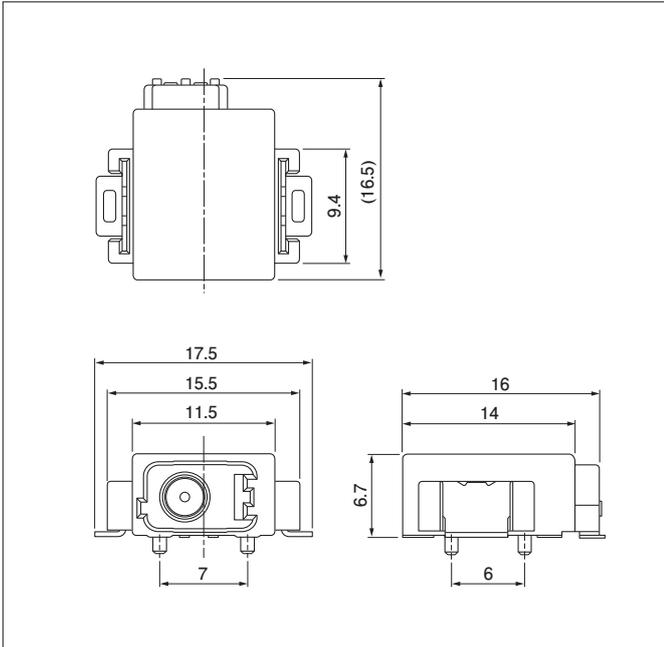
Model No.	Q'ty/reel
EA1-SSP391	2,000

### Material and Finish

Copper alloy, nickel-undercoated, tin/copper alloy-plated

Note: This product displays (LF) on a label.

## Header



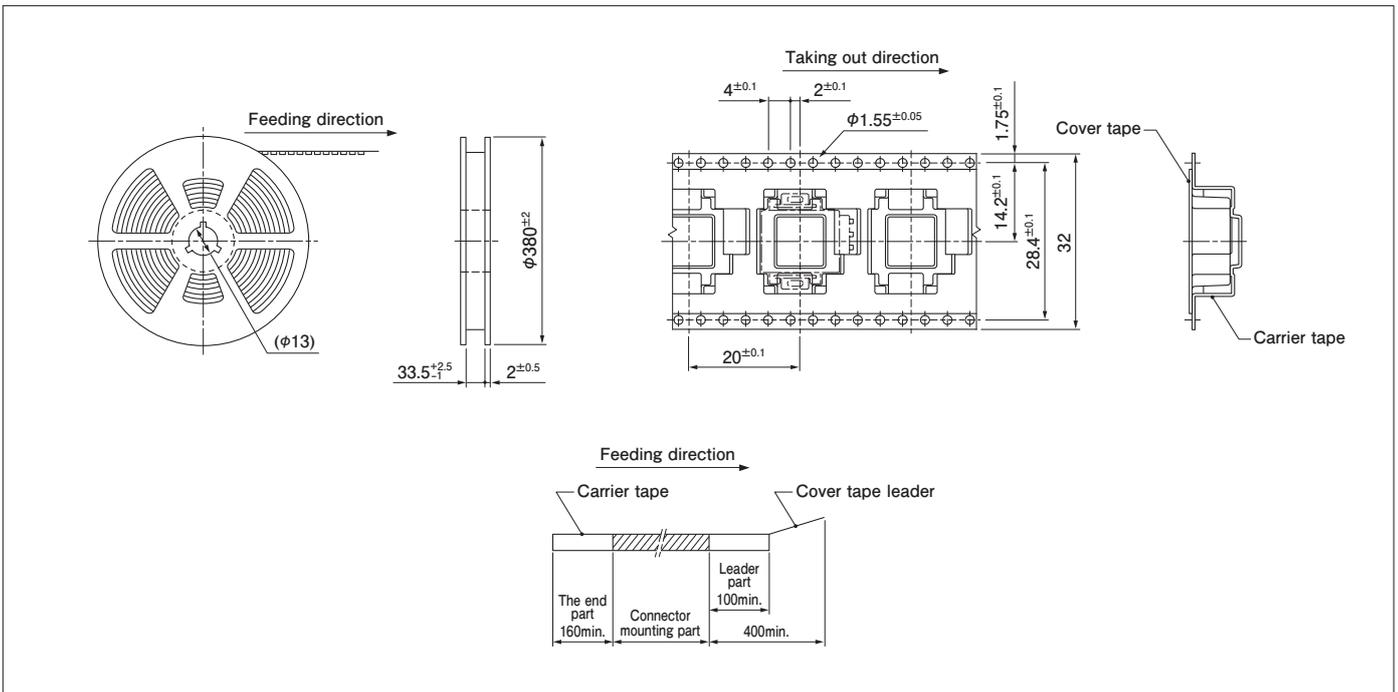
Model No.	Q'ty/reel
EA1-1RAS-029100-K1-TF	500

### Material and Finish

Terminal: Phosphor bronze, nickel-undercoated, gold-plated (with nickel stripe)  
 Housing: Glass-filled PA 9T, Black  
 Peg: Brass, copper-undercoated, tin-plated (reflow treatment)  
 Shell: Phosphor bronze, nickel-undercoated, tin/copper alloy-plated

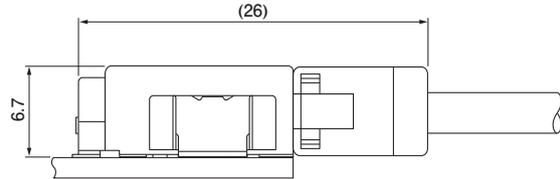
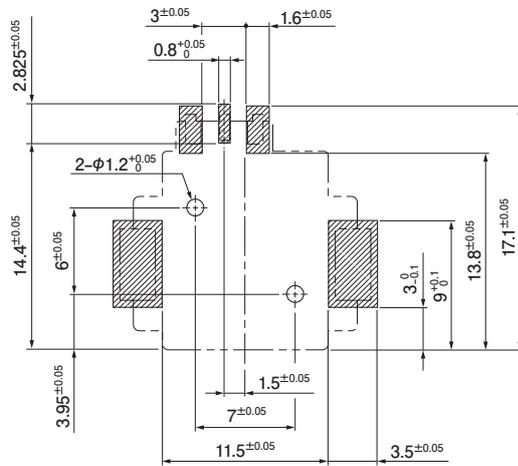
Note: This product displays (LF) on a label.

## Taping Specifications



# EA1 CONNECTOR

## PC board layout, Assembly layout



Note: 1. Tolerances are non-cumulative:  $\pm 0.05$  mm for all centers.  
2. The dimensions above should serve as guideline. Contact JST for details.

## Crimping machine, Applicator

Strip terminal	Crimping machine	Crimp applicator MKS-L	
		Dies	Crimp applicator with dies
EA1-SCS342	AP-K2N	MK/EA1-SCS	APLMK EA1-SCS

Note: When crimping operation is conducted using an applicator and die set other than the above, JST cannot guarantee the performance of the terminal.

## Jig

Jig	Hand crimp tool
Sleeve insertion jig	H3-SLIT2-EA1
Shell insertion jig	H3-SIT-EA1
Shell crimping jig	H2-CP-EA1
Hand press	MPD-M2A(LR)