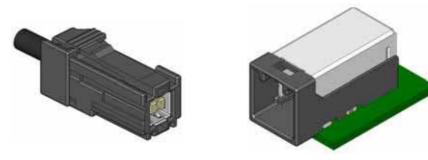




Automotive USB 2.0 Standard Compatible Connector

MX49 Series

CONNECTOR MB-0252-1 October 2012



Recently for car navigation systems, USB connectivity with hand-held digital audio players and smartphones, and the functions to play audio and images from those devices, has been increasing.

And as the features in car navigation systems become ever more advanced and the number of parts mounted on the board increases, there is a demand for smaller connectors.

To meet these demands, JAE has developed the MX49 Series of connectors for automotive USB 2.0 transmission.

The MX49 Series has a reduced height, width and depth compared to our previous product, achieving a 48% reduction in volume.

The MX49 Series is compatible with high-speed signals and has transmission performance that satisfies the USB 2.0 standard. The MX49 Series also features the environment resistance that is required for an automotive connector.

Features

- Achieves a 48% reduction in volume compared to our previous product.
- 2.0mm pitch, 2 rows, 4 position (2 signal lines, power, ground)
- Compatible with USB 2.0 standard transmission.
- Board connector is available in DIP type and reflow type.
- Different keying versions available for mis-mating prevention. (DIP type: 5 versions; reflow type: 4 versions)
- Mechanical lock and twist-resistant structure for mated connector.
- Dual-shield structure with ground terminals for EMI control.
- Available as a completed harness to ensure transmission performance reliability.

General Specifications

- No. of Contacts: 4 positions
- Dielectric Withstanding Voltage: AC1000 Vr.m.s. (applied voltage) per minute (mated condition)
- Operating Temperature: -40 Deg. C to +85 Deg. C
- Insulation Resistance: 100MΩ min. (mated condition)
- Applicable Board Thickness: 1.6mm
- Applicable Wire: Signal line is shielded twisted pair wire (for harness)
- Connector Insertion Force: 70N max.

Materials and Finishes

Angle Pin Connector

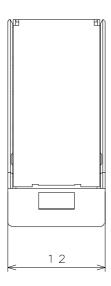
Component	Material / Finish	
Signal / Power Terminal	Brass / Contact Area: Au plating over Ni Board Termination Area: Sn plating	
External Housing	DIP Type: SPS-GF30 Reflow Type: PPS-GF40	
Internal Housing	DIP Type: SPS-GF30 Reflow Type: LCP-GF35	
Ground Terminal	Copper alloy / Sn plating	
Shield Shell	DIP Type: Copper alloy / Sn plating Reflow Type: Brass / Sn plating	

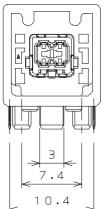
Socket Connector

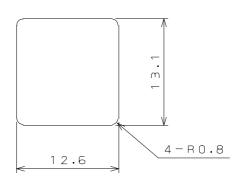
Component	Material / Finish	
Signal / Power Terminal	Copper alloy / Contact Area: Au plating over Ni Wire Termination Area: Sn plating	
External Housing Retainer	PBT	
Internal Housing Holder	LCP-GF35	
Ground Terminal	Copper alloy / Sn plating	
Cover Shell Sleeve	Brass / Sn plating	

Unit: mm

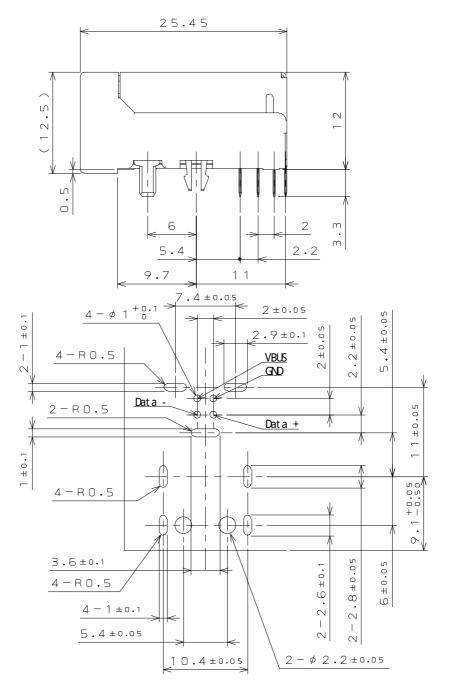
Angle Pin Connector DIP (MX49004NQ1) Drawing No.: SJ110136

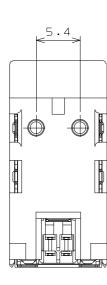






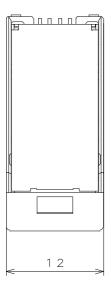
PANEL CUT OUT DI MENSION (REF.)

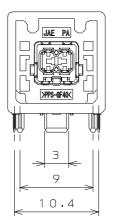


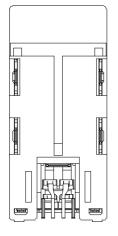


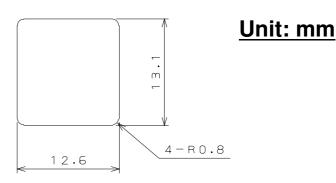
APPLI CABLE P.C.B. DI MENSI ON (REF.)

Angle Pin Connector Reflow Type (MX49004HQ1) Drawing No.: SJ110812

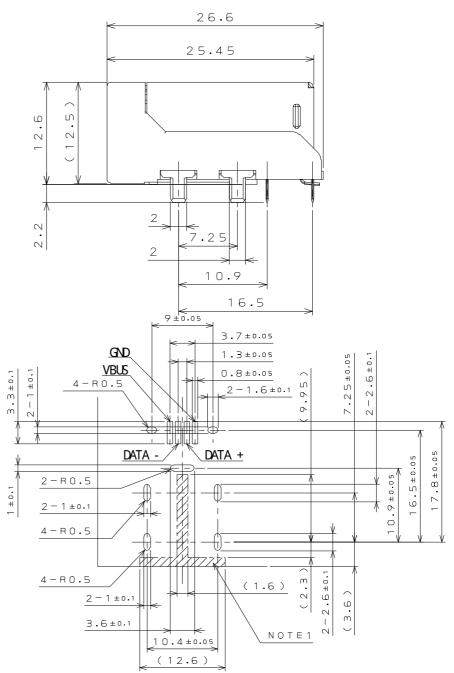








PANEL CUT OUT DIMENSION (REF.)



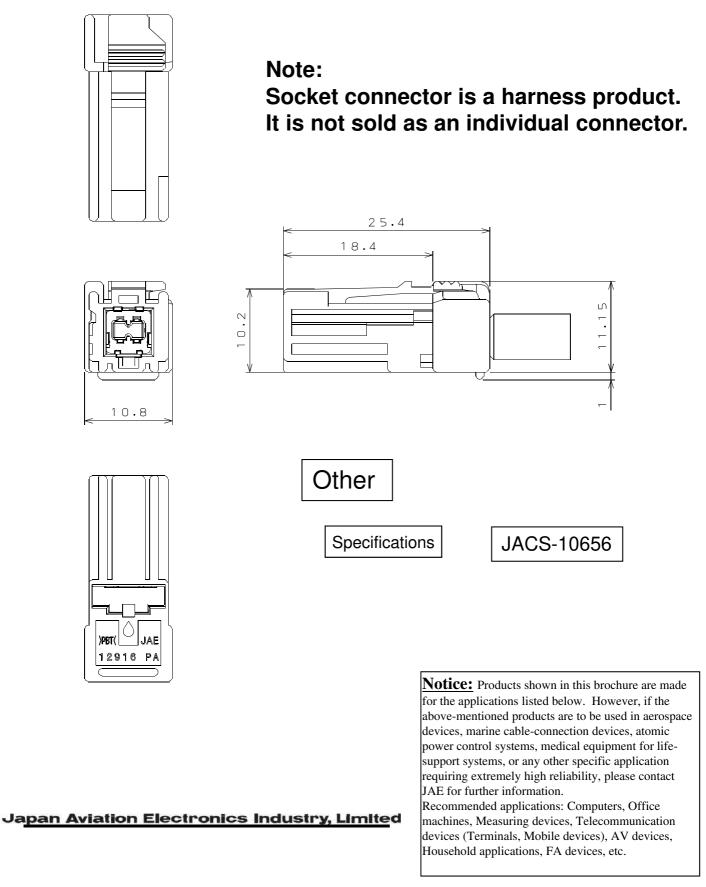
APPLI CABLE P.C.B. DI MENSI ON REF.) Note 1: Shaded portion of this drawing is pattern prohibited area. Key Type (Shape) / Insulator Color

Unit: mm

Koy Type	Socket	Pin Connector		External Insulator Calar
Key Type Conne	Connector	DIP Type	Reflow Type	External Insulator Color
A	D			Gray
В				Black
С	Ũ			Brown
D	C			Green
E				Light Blue



<u>Unit: mm</u>



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