

(2012.10.17)

48% Less Volume Than Our Previous Product Automotive USB 2.0 Standard Compatible Connector "MX49 Series" Has Been Developed



Recently for car navigation systems, USB connectivity with hand-held digital media players and smartphones to play audio and video 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.
- ▶ Compatible with USB 2.0 standard transmission.
- ▶ 2.0mm pitch, 2 rows, 4 position (2 signal lines, power, ground)
- ▶ 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.

:: Applicable market

Car navigation, car audio

:: 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 : 100M ohms min. (mated condition)
- ▶ Applicable Board Thickness : 1.6mm
- ▶ Applicable Wire : Signal line is shielded twisted pair wire (for harness)
- ▶ Connector Insertion Force : 70N max.

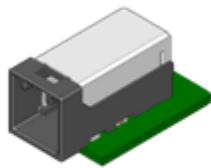
:: Materials and Finishes

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



Angle Pin Connector



Socket Connector



Contact us