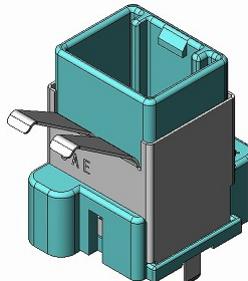
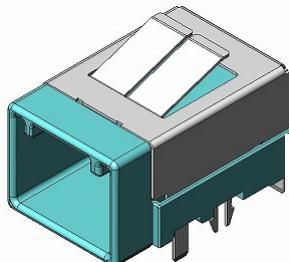
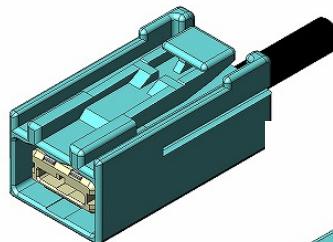
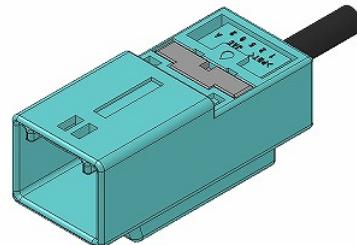


Automotive High-speed Differential Transmission
Compatible ConnectorCONNECTOR
MB-0304-1
October 2015

MX38 Series

Straight Pin ConnectorAngle Pin ConnectorSocket ConnectorIn-line Connector

Along with the advancement of electronics in the automotive field, the use of displays is rapidly growing to support safety features using surround view systems and LCD instrument panels, and rear seat entertainment.

As the display size and resolution are increasing, the transmission signals have shifted from analog to digital high-speed differential pairs, which can send large amounts of data more efficiently.

To meet these demands, the MX38 Series high-speed differential transmission compatible connector has been developed.

The MX38 Series is compatible with GVIF and LVDS transmission which is ideal for in-car video signal transmission.

GVIF is a trademark of Sony Corporation.

Features

- 2.2mm pitch, 2 signal lines.
- Compatible with GVIF and LVDS transmission.
- Impedance-matching design for high-speed transmission.
- Available in different keying to prevent mis-mating. (4 types available)
- Mechanical lock and twist-resistant structure.
- Dual-shield structure with ground terminals for EMI control.
- Available as a complete harness to ensure transmission performance reliability.

General Specifications

- No. of Contacts: 2-position
- Dielectric Withstanding Voltage: AC1000V applied for 1 minute (when mated)
- Operating Temperature: -40 Deg. C to +85 Deg. C
- Insulation Resistance: 100M Ω min. (when mated)
- Applicable Board Thickness: t1.6mm
- Applicable Cable: Shielded twisted-pair cable. (sold as harness product)
- Connector Insertion Force: 70N max.

Materials and Finishes

■ Pin Connector

Component	Material / Finish
Signal Terminal	Brass / Contact area: Au plating over Ni Board connection area: Sn plating
Outer Housing Inner Housing	SPS-GF30
GND Terminal, Shield Shell	Copper alloy / Sn plating

■ Socket Connector

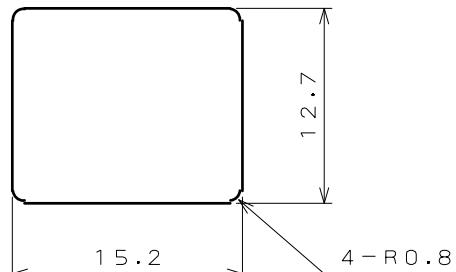
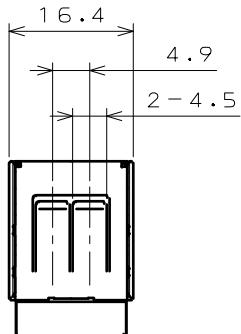
Component	Material / Finish
Signal Terminal	Copper alloy / Contact area: Au plating over Ni Cable connection area: Sn plating
Outer Housing Retainer	PBT
Inner Housing Holder	LCP-GF35
GND Terminal	Copper alloy / Sn plating
Cover Shell, Sleeve	Brass / Sn plating

■ In-line Connector

Component	Material / Finish
Signal Terminal	Brass / Contact area: Au plating over Ni Cable connection area: Sn plating
Outer Housing Retainer	PBT
Inner Housing Holder	LCP-GF35
GND Terminal	Copper alloy / Sn plating
GND Plate Cover Shell, Sleeve	Brass / Sn plating

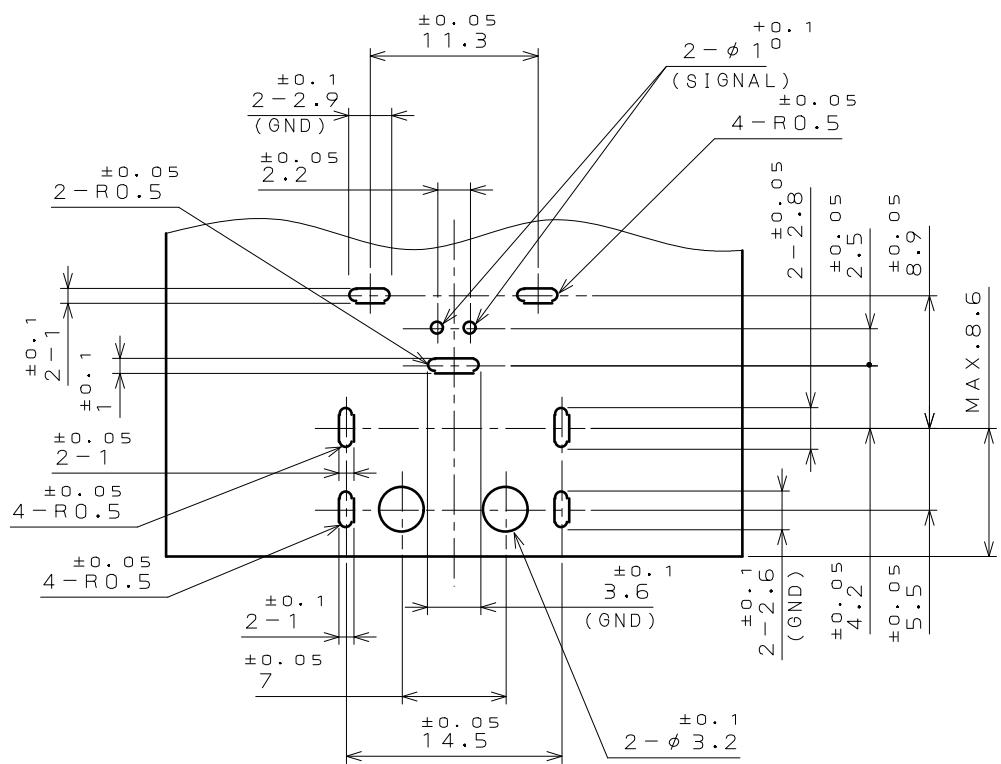
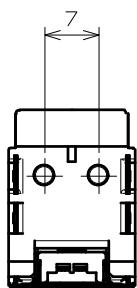
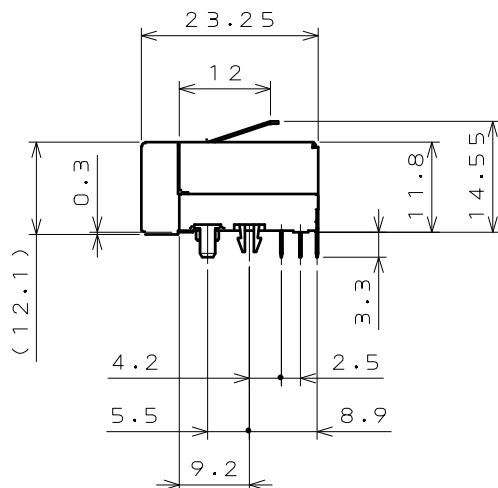
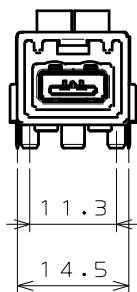
Outer Dimensions

■ Angle Pin Connector (MX38002NQ4) Drawing: SJ102056



Unit: mm

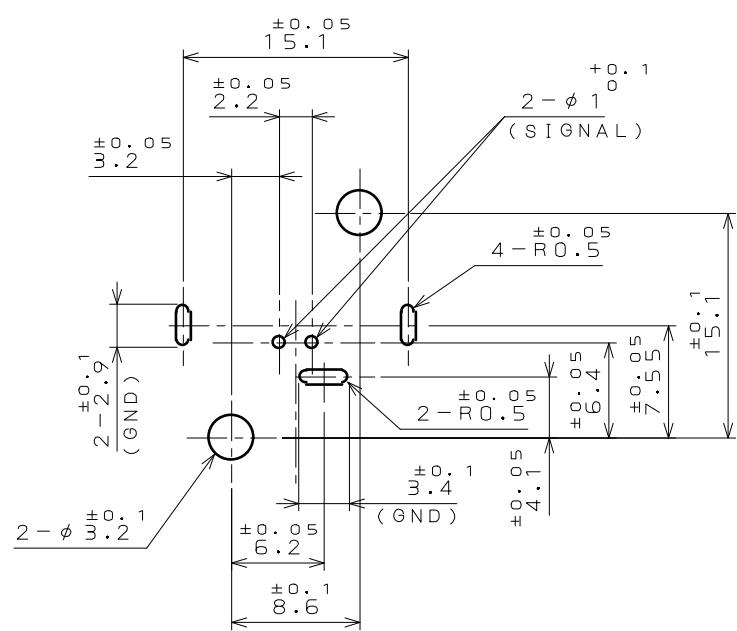
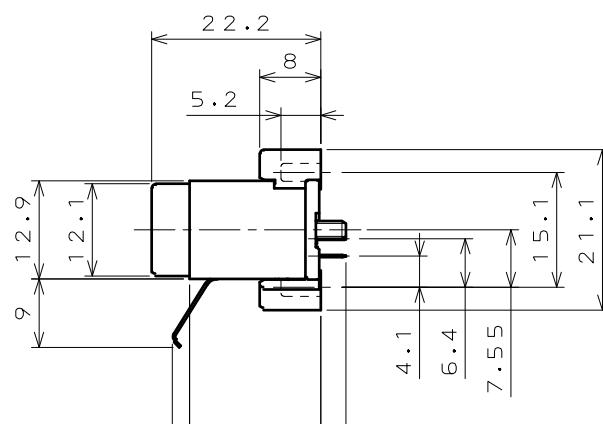
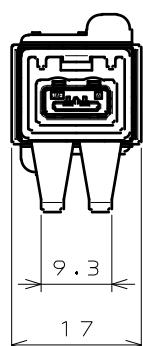
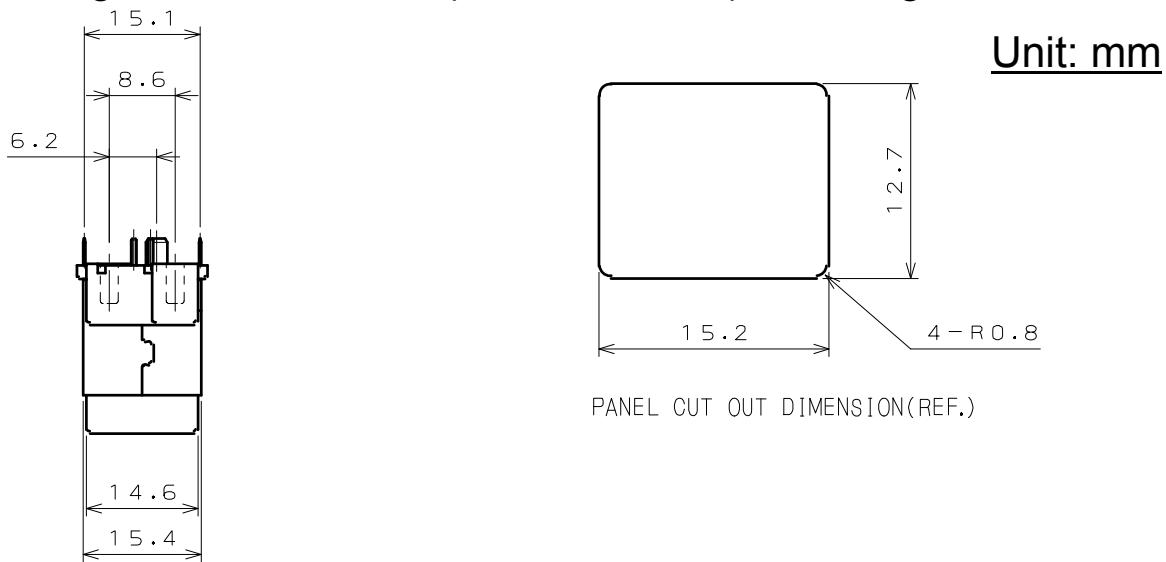
PANEL CUT OUT DIMENSION(REF.)



APPLICABLE P.C.B DIMENSION(REF.)

Outer Dimensions

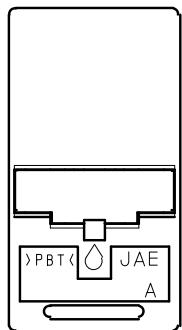
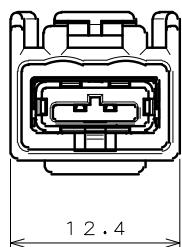
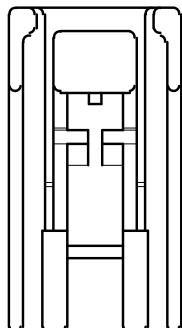
■ Straight Pin Connector (MX38002UQ1) Drawing: SJ101167



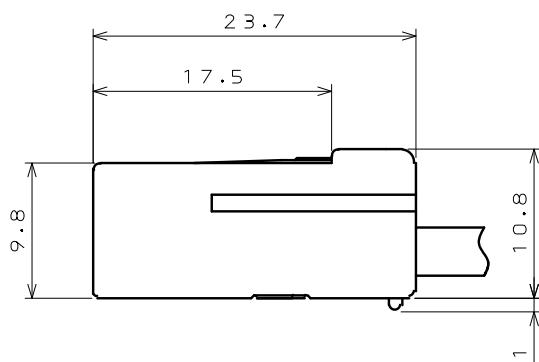
APPLICABLE P.C.B DIMENSION(REF.)

■ Socket Connector (for reference)

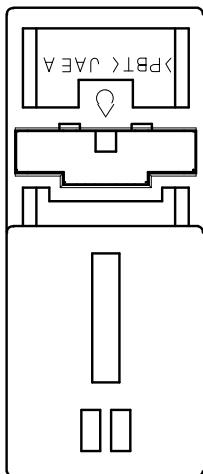
Unit: mm



Note) Socket connector is sold as a harnessed product and is not sold as an individual product.

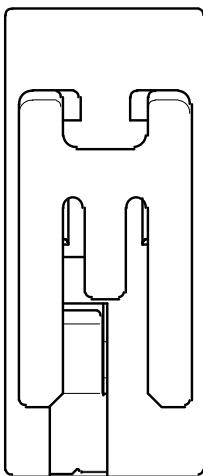
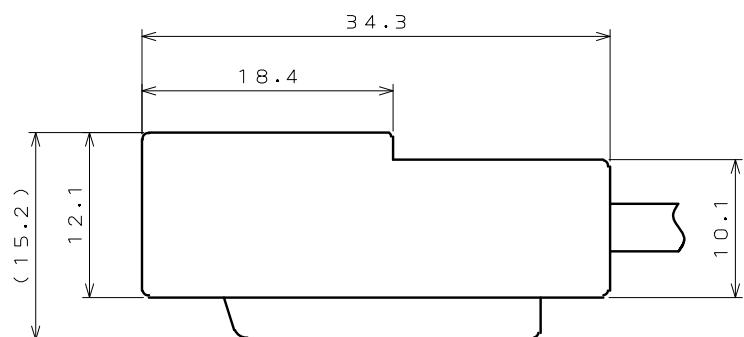
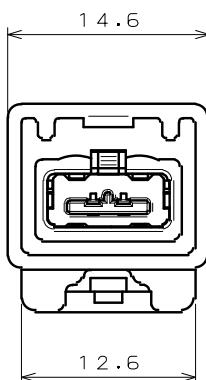


■ In-line Connector (for reference)



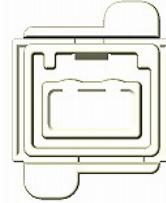
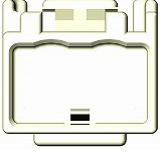
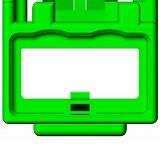
Unit: mm

Note) Socket connector is sold as a harnessed product and is not sold as an individual product.



Key Shape

■ Key Type (Shape) / Insulator Color

Key Type	Pin Connector		Socket Connector	In-line Connector	Outer Insulator Color
	Angle	Straight			
A					Light Blue
B					White
C					Green
D					Brown

Others

Specification

JACS-10211

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