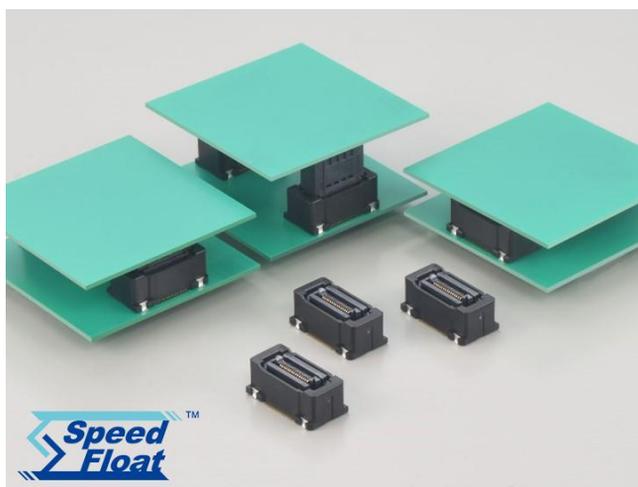


MA01 Series

CONNECTOR

8Gbps+ Floating Board-to-Board Connector with MB-0386-1
Expanded X/Y Floating Tolerance of $\pm 0.8\text{mm}$

Apr.2023

RoHS Compliant

This product elongates the floating amount of the MA01 series board-to-board connectors. The floating tolerance has been expanded from the conventional $\pm 0.5\text{ mm}$ to $\pm 0.8\text{ mm}$ in the X & Y directions.

Applicable Markets

Automotive equipment (ADAS-ECU, Central gateway, etc.), Factory automation equipment, semiconductor manufacturing equipment, office multi-function machines, communication equipment, measuring equipment, broadcasting equipment, gaming machine and other various applications.

Features

- Floating tolerance: $\pm 0.8\text{ mm}$ in both X & Y directions
- Stacking height tolerance between boards: $\pm 0.5\text{ mm}$ in Z-direction
- Two-point contact structure ensures high contact reliability
- Low insertion and removal forces achieved by using rolled surfaces of contacts
- Operating temperature range: $-40\text{ }^{\circ}\text{C}$ to $+125\text{ }^{\circ}\text{C}$
- 8 Gbps+ high-speed transmission (10 GBASE-KR and PCIe Gen3 equivalent)
- Excellent mating process with large guides, supporting automatic assembly (mating guide length: $\pm 1.0\text{ mm}$)
- Supports automatic mounting
- Multiple connectors can be used to interface between the same pair of PCB's
- Keyed to prevent reverse insertion

General Specifications

Pitch	0.635 mm
Number of Contacts	30 positions
Stacking Height	11.5 mm, 13.5mm, 21.5mm
Floating Movable Amount	X direction: ± 0.8 mm, Y direction: ± 0.8 mm
Operating Temperature Range	-40°C to +125°C (including conduction temperature rise)
Rated Current	0.5A
Rated Voltage	AC50V rms.
Contact Resistance	Initial: 50m Ω max. / After test: 100m Ω max.
Dielectric Withstanding Voltage	AC250V rms., conduction for 1 minute
Insulation Resistance	100M Ω min.
Durability	100 mating cycles

Materials and Finishes

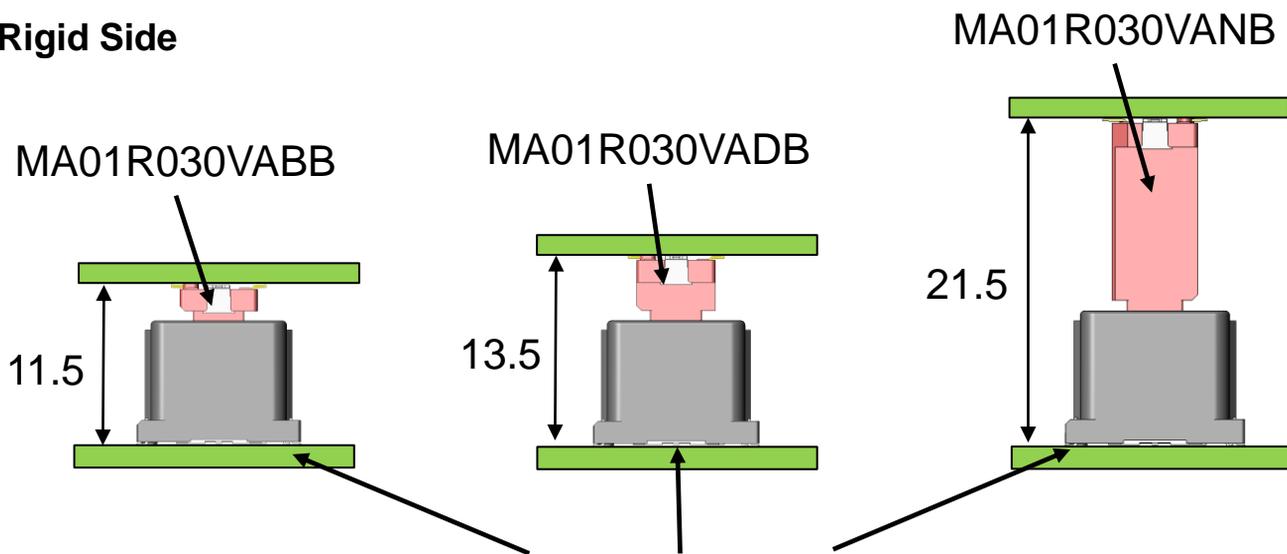
Floating Connector

Component	Materials	Finishes
Fixed Insulator	PA9T	N/A
Floating Insulator	LCP	N/A
Contact	Copper alloy	Au plating
Hold-down	Copper alloy	Sn plating
Cap	Stainless steel	N/A

Mating Variations

By mating with the MA01 Series rigid side connector stacking heights of 11.5mm, 13.5mm and 21.5mm are available.

Rigid Side



Floating Side

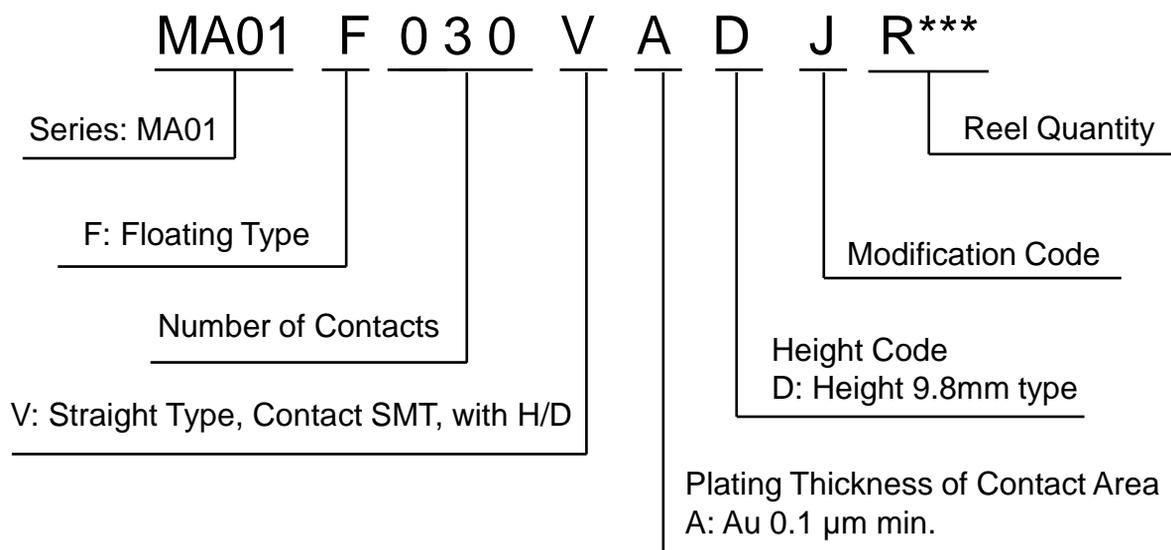
[New product] MA01F030VADJ

Note)

This expansion is specific to the 30 positions solution. Please contact us to discuss a different position alternative.

Ordering Information

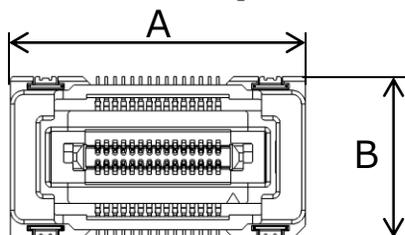
Floating Straight Connector



Outer Dimensions

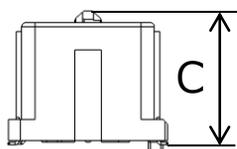
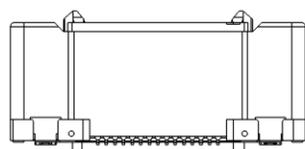
Floating Connector

[MA01F030VADJ]



Unit: mm

Number of Contacts	A	B	C
30	21.8	11.8	9.8



Part and Drawing Numbers

Part Numbers	Drawing Numbers	Specifications
MA01F030VADJ	SJ125486 (Individual product)	JACS-11300-105
MA01F030VADJR300	SJ125487 (Reel packaging)	

Notice:

1. The values specified in this brochure are only for reference. The products and their specifications are subject to change without notice. Contact our sales staff for further information before considering or ordering any of our products. For purchase, a product specification must be agreed upon.

2. Users are requested to provide protection circuits and redundancy circuits to ensure safety of the equipment, and sufficiently review the suitability of JAE's products to the equipment.

3. The products presented in this brochure are designed for the uses recommended below. We strongly suggest you contact our sales staff when considering use of any of the products in any other way than the recommended applications or for a specific use that requires an extremely high reliability.

(1) Applications that require consultation:

(i) Please contact us if you are considering use involving a quality assurance program that you specify or that is peculiar to the industry, such as:

Automotive electrical components, train control, telecommunications devices (mainline), traffic light control, electric power, combustion control, fire prevention or security systems, disaster prevention equipment, etc.

(ii) We may separately give you our support with a quality assurance program that you specify, when you think of a use such as:

Aviation or space equipment, submarine repeaters, nuclear power control systems, medical equipment for life support, etc.

(2) Recommended applications include:

Computers, office appliances, telecommunications devices (terminals, mobile units), measuring equipment, audiovisual equipment, home electric appliances, factory automation equipment, etc.

Japan Aviation Electronics Industry, Limited

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