

2.5mm/3.0mm Stacking Heights AC02 Series

CONNECTOR
MB-0353-1
March 2020

RoHS Compliant



The AC02 series is a 0.5mm pitch vertical board to board connector, suitable for information and communication equipment, and various other industrial equipment. The connector series are available in 2.5mm and 3.0mm stacking heights, while utilizing a highly stable and reliable contact structure which has been proven over decades of use.

Applicable Market

Information and communication equipment, factory automation equipment, and other various electrical equipment

Features

- 0.5mm pitch, large pin count board to board connectors
- Stacking height 2.5mm and 3.0mm
(3.0mm stacking height is for 50 pos. and 100 pos. only)

General Specifications

Number of Contacts	50 pos., 60 pos., 80 pos., 100 pos.	Contact Pitch	0.5mm, Double row
Stacking Heights	60 and 80 pos.: 2.5mm 50 and 100 pos.: 2.5mm, 3.0mm	Contact resistance	40mΩ max.
Dielectric Withstanding Voltage	AC500Vr.m.s. (per minute)	Insulation Resistance	100MΩ min.
Rated Current	AC,DC each 0.3A/contact	Operating Temperature	-40°C ~ +85°C

Materials and Finishes

Components	Material / Finish
Insulator	LCP (Color: Black)
Contact	Copper Alloy / Au plating

Ordering Information

<u>AC02</u>	<u>*</u>	<u>***</u>	<u>WA*</u>	<u>R****</u>	Emboss reel packaging R500: 500pcs/emboss reel R2800: 2800pcs/emboss reel R3000: 3000pcs/emboss reel
Series					
Connector type P: Plug S: Socket					
Number of Contacts 50 pos., 60 pos., 80 pos., 100 pos.				Modification Code WA1: 2.5mm (Stacking height) WA2: 3.0mm (Stacking height)	

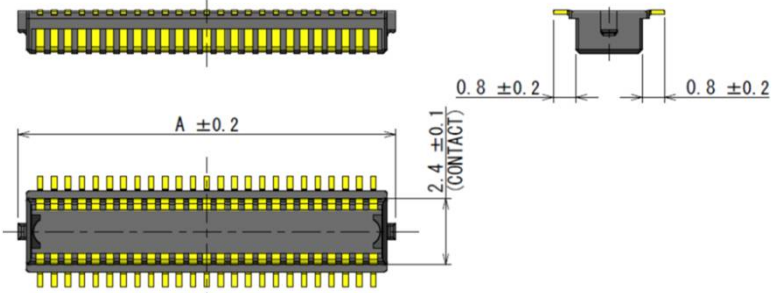
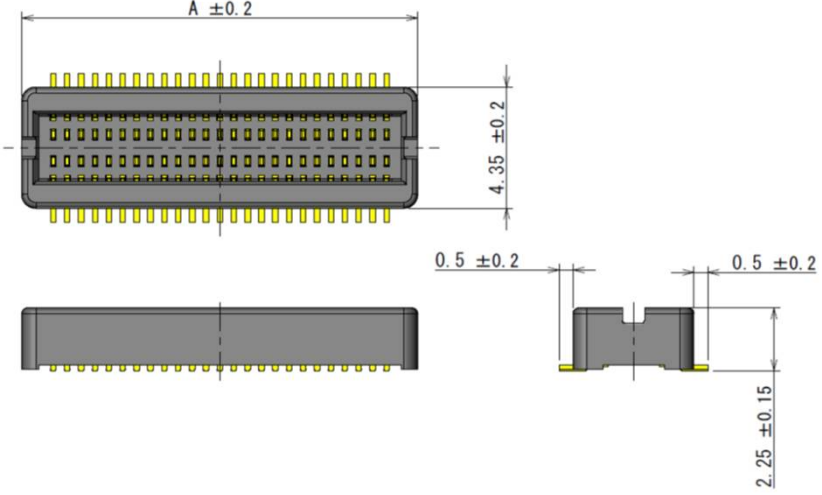
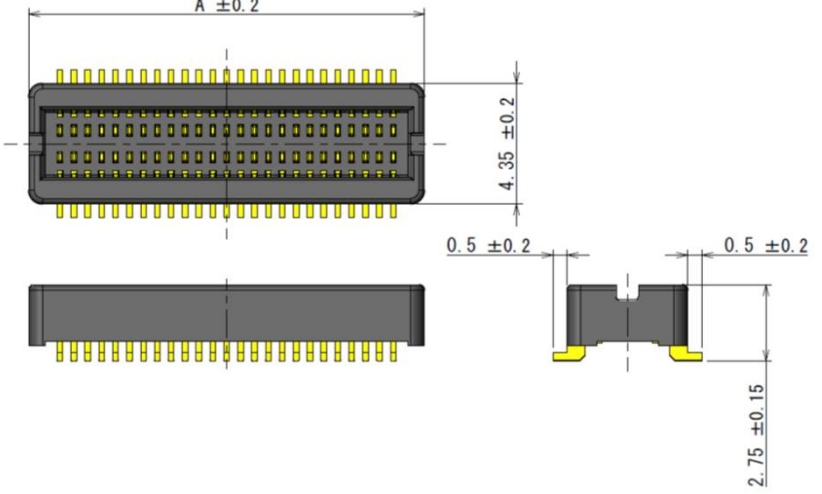
Product Lineup

Number of Contacts	Plug Side		Socket Side	
	Part Number	Drawing Number	Part Number	Drawing Number
50 pos.	AC02P050WA1R500	<u>WA1</u> SJ122303 [Emboss Packaging Drawing Number <u>WA1</u> R500: SJ122302 R3000: SJ122301]	AC02S050WA1R500	<WA1>
	AC02P050WA1R3000		AC02S050WA1R3000	SJ122217
			AC02S050WA2R500	<WA2>
			AC02S050WA2R2800	SJ122220
60 pos.	AC02P060WA1R500		AC02S060WA1R500	[Emboss Packaging Drawing Number <u>WA1</u> R500: SJ122216 R3000: SJ122215 <u>WA2</u> R500: SJ122219 R2800: SJ122218]
	AC02P060WA1R3000		AC02S060WA1R3000	
80 pos.	AC02P080WA1R500		AC02S080WA1R500	
	AC02P080WA1R3000		AC02S080WA1R3000	
100 pos.	AC02P100WA1R500		AC02S100WA1R500	
	AC02P100WA1R3000		AC02S100WA1R3000	
			AC02S100WA2R500	
			AC02S100WA2R2800	

Specification Number: JACS-11314

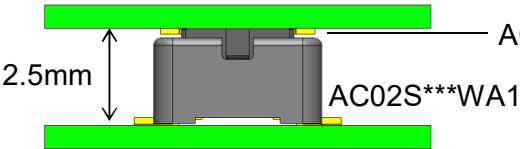
Product Drawings

Unit: mm

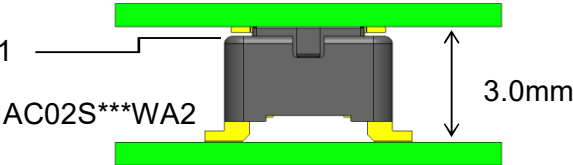
Part Number	Number of Contacts	Dimension	
AC02P***WA1	50	A:13.6	
	60	A:16.1	
	80	A:21.1	
	100	A:26.1	
AC02S***WA1	50	A:14.25	
	60	A:16.75	
	80	A:21.75	
	100	A:26.75	
AC02S***WA2	50	A:14.25	
	60	—	
	80	—	
	100	A:26.75	

Mated Stacking Height

WA1 Plug + WA1 Socket



WA1 Plug + WA2 Socket



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.

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