

0.5mm pitch, Board to Board Connector

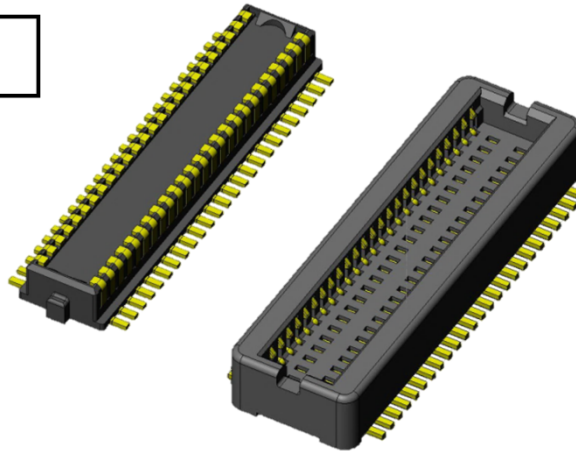
CONNECTOR

# AC01 Series

MB-0341-1

January, 2019

**RoHS Compliant**



The AC01 series is a 0.5mm pitch horizontal 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, as well as 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, medical equipment (ultrasonic diagnostic equipment), and other various electrical equipment.

**Features**

- Contact pitch: 0.5mm; stacking height: 2.5mm and 3.0mm (3.0mm stacking height is for 50 pos. and 100 pos. only)
- Highly stable and reliable contact structure, proven over decades of use.
- Embossed tape packaging for convenience for SMT production.

**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>AC01</u>	<u>*</u>	<u>***</u>	<u>WA*</u>	<u>R****</u>
Series				Emboss reel packaging R500: 500pcs/emboss reel R2800: 2800pcs/emboss reel R3000: 3000pcs/emboss reel
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.	AC01P050WA1R500	<u>WA1</u> SJ118839	AC01S050WA1R500	<u>WA1</u> SJ118842 <u>WA2</u> SJ118845 ( Emboss Packaging Drawing Number )
	AC01P050WA1R3000		AC01S050WA1R3000	
			AC01S050WA2R500	
			AC01S050WA2R2800	
60 pos.	AC01P060WA1R500	( Emboss Packaging Drawing Number ) <u>WA1</u> R500 : SJ118838 R3000 : SJ118837	AC01S060WA1R500	<u>WA1</u> R500 : SJ118841 R3000 : SJ118840 <u>WA2</u> R500 : SJ118844 R2800 : SJ118843
	AC01P060WA1R3000		AC01S060WA1R3000	
80 pos.	AC01P080WA1R500		AC01S080WA1R500	
	AC01P080WA1R3000		AC01S080WA1R3000	
100 pos.	AC01P100WA1R500		AC01S100WA1R500	
	AC01P100WA1R3000		AC01S100WA1R3000	
			AC01S100WA2R500	
			AC01S100WA2R2800	

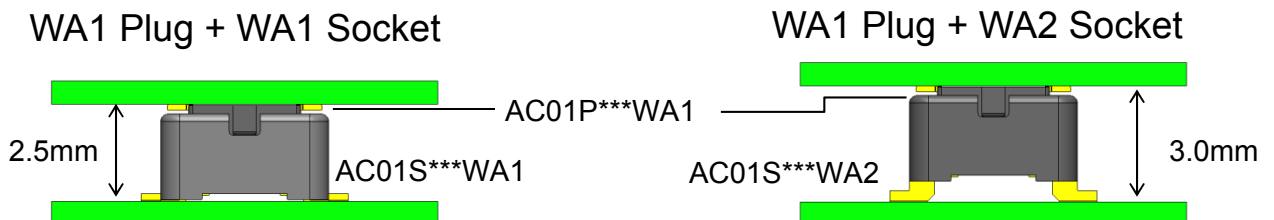
Specification Number: JACS-11209

Product Drawings

Unit: mm

Part Number	Number of Contacts	Dimension	
AC01P***WA1	50	A:13.6	
	60	A:16.1	
	80	A:21.1	
	100	A:26.1	
AC01S***WA1	50	A:14.25	
	60	A:16.75	
	80	A:21.75	
	100	A:26.75	
AC01S***WA2	50	A:14.25	
	60	—	
	80	—	
	100	A:26.75	

Mated Stacking Height



**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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