

DZ02 Series

Mini I/O Interface Connector

Connector Training Module

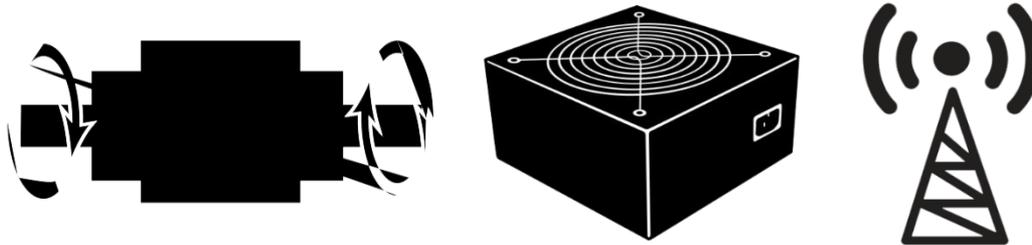
Technology to Inspire Innovation



JAE DZ02 Series Mini I/O Interface Connector

Application Examples

- Servo Amplifiers
- Motion Controllers
- PLC (Programmable Logic Controller)
- Other industrial machinery applications



DZ02 Series Overview

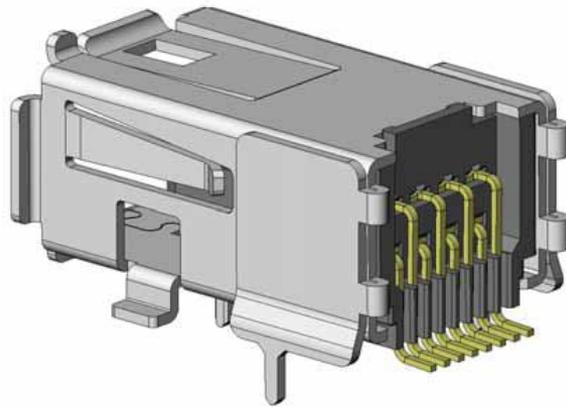
JAE's DZ02 series mini I/O connector has been developed for industrial equipment. It is a 0.635mm pitch compact connector with a superior lock structure resistant to vibration and is suitable for use under harsh environmental conditions. It can be used as an I/O connector for systems compatible with the product standard IEC/EN 61800-5-2 (Electrical Control Motor) of the international standard IEC 61508 for functional safety.



DZ02 Series Features

Compact connector with a superior structure

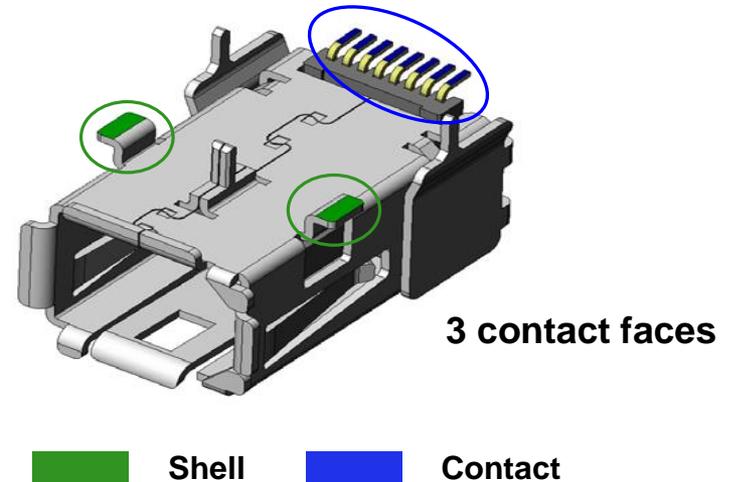
- 0.635mm pitch compact connector
- Superior lock structure resistant to vibration
- Suitable for use under harsh environmental conditions
- Structure prevents solder flux scattering by covering bottom surface of contact area with an outer shell
- Supports SMT mounting with excellent co-planarity



DZ02 Series Features: SMT Co-planarity

Reduction of Contact Points

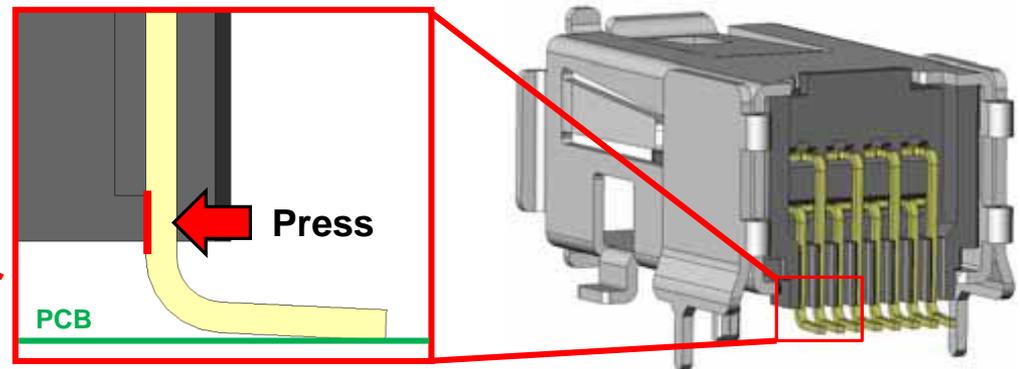
Parts	No. of Contact Points
Insulator	None
Shell	2
Contact	8



- Lesser contact points are good for avoiding insufficient soldering

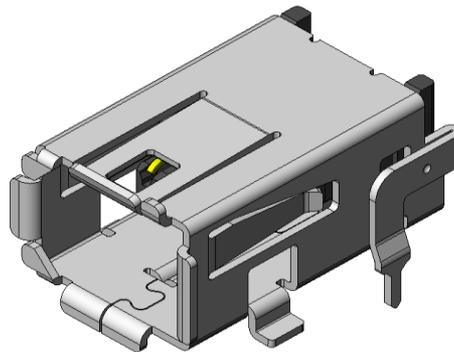
Press Contact Against Insulator

- Pressing the contacts against the insulator wall at a position close to SMT area stabilizes the contacts into position.
- Coplanarity 0.1mm MAX (including “during reflow”)



General Specifications

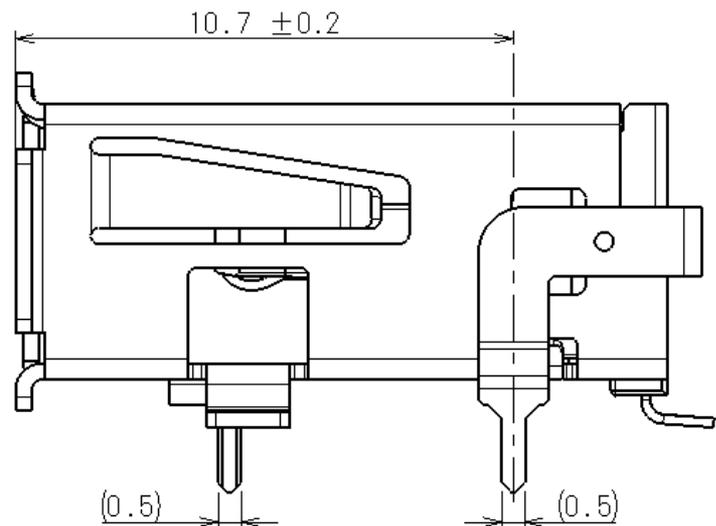
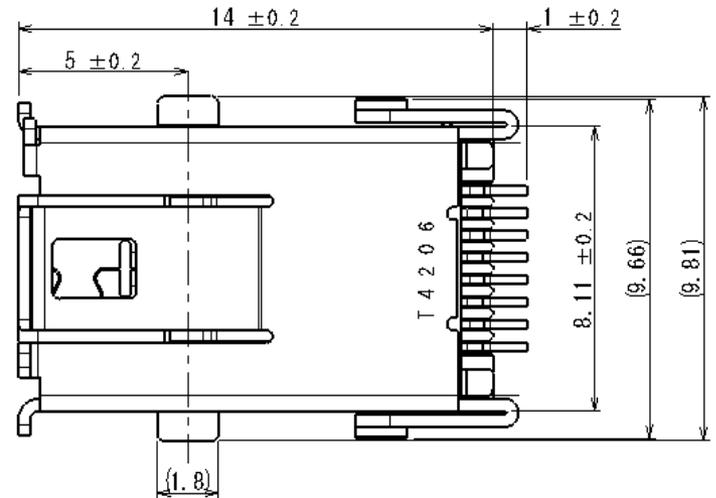
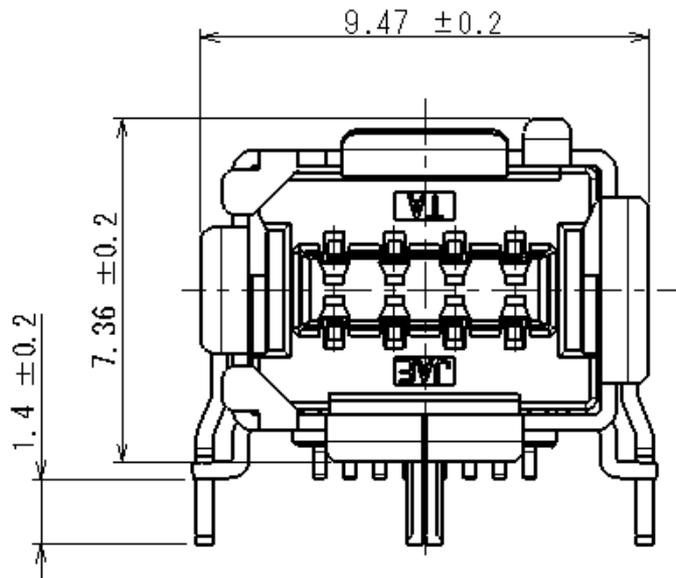
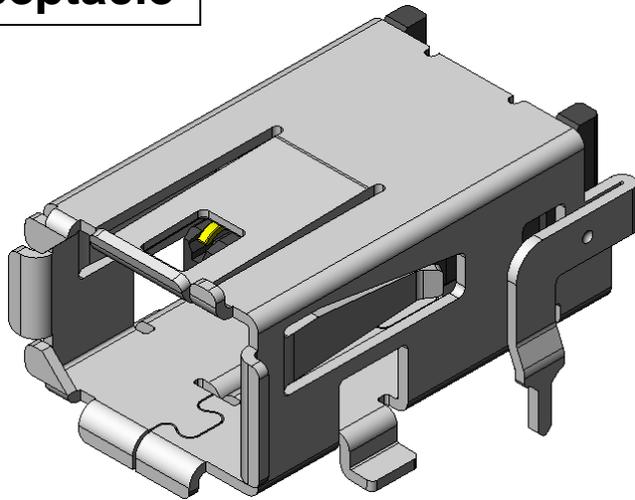
Number of Contacts	8 contacts
Current Rating	0.5A/ 1 contact
Voltage Rating	30V
Contact Resistance	Receptacle: 40mΩmax.
Insulation Resistance	500MΩmin. (Individual connector)
Dielectric Withstanding Voltage	AC250Vr.m.s(Individual connector)
Mounting Method	SMT automatic mounting
Operating Temperature	-40 Deg. C ~ +85 Deg.C



Basic Dimensions

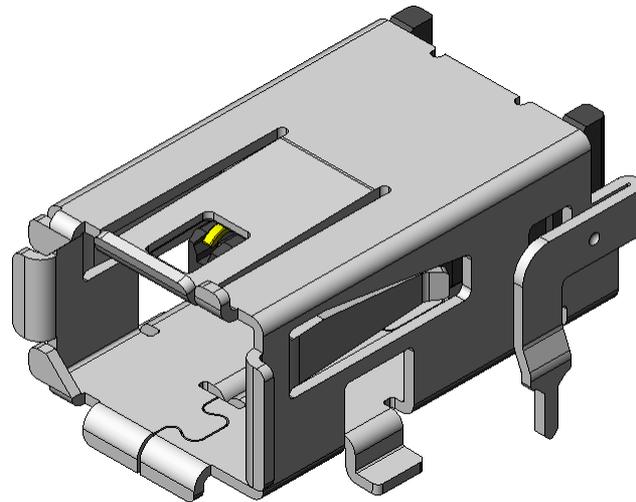
*All units in mm

Receptacle



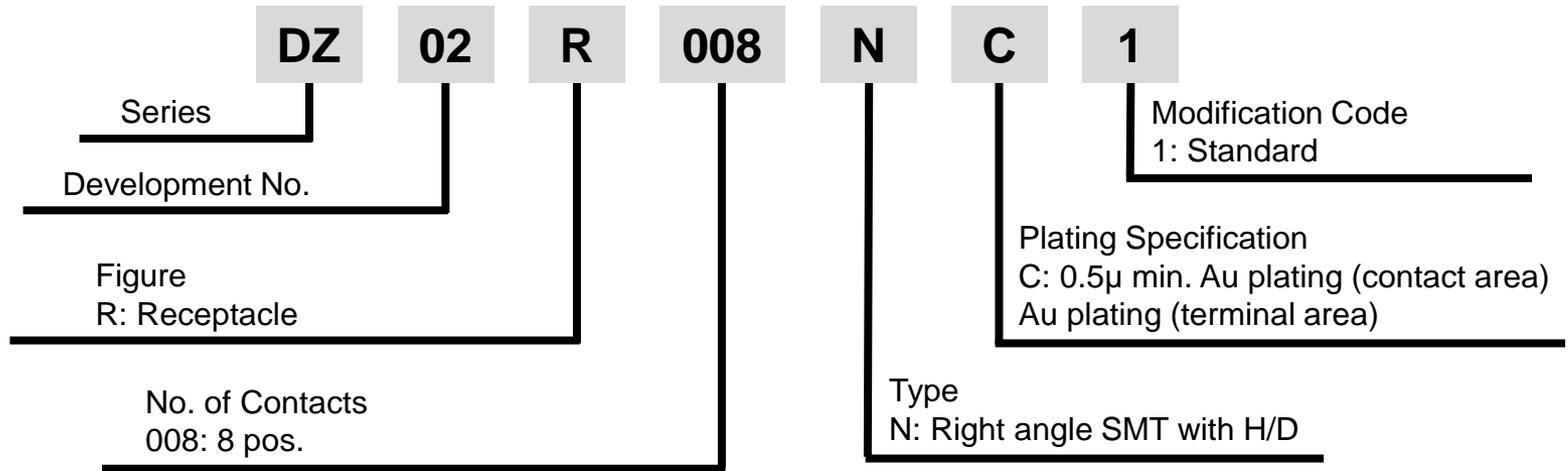
Materials and Finishes

Component	Part	Material/Finish
<i>Receptacle</i>	Insulator	Synthetic Resin
	Shell	Copper alloy / Sn plating
	Contact	Copper alloy / Au plating (contact area)



Ordering Information

Receptacle



Document Number (Content of Document)	
Specification	JACS-30337
Handling Instruction	-

Summary

- An I/O connector developed for industrial equipment
- 0.635mm pitch compact connector
- Superior lock structure resistant to vibration
- Suitable for use under harsh environmental conditions
- Structure prevents solder flux from scattering with covered bottom
- Supports SMT mounting with excellent co-planarity



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