Technology to Inspire Innovation

JAE

RoHS Compliant

COAXIAL CONNECTORS

2008

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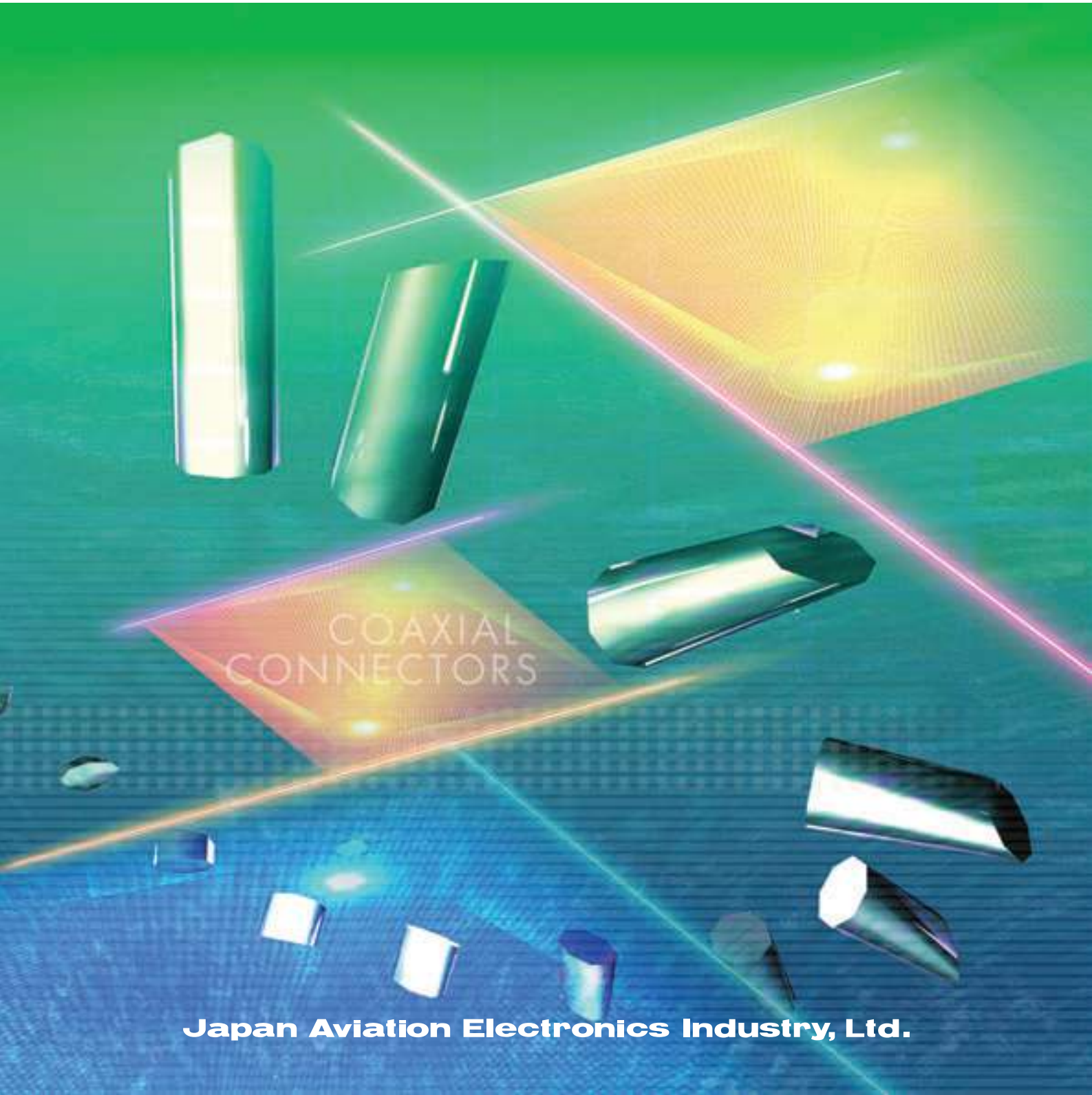
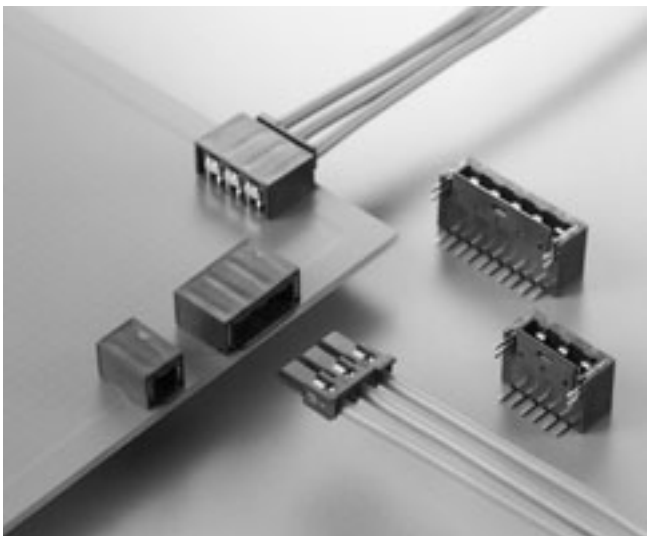


Japan Aviation Electronics Industry, Ltd.

■ FREQUENCY RANGE TO 300MHz
■ SIMPLIFIED COAXIAL, MULTIPLETYPE

KD10/KD20 Series



KD10/KD20 series are different from conventional single position independent coaxial connectors.
The multiple simplified coaxial connectors of these series have several positions in a single housing. All cables can be mated or unmated en masse on the board. Easy to operate.
Applicable to a middle/low band high frequency from DC to 300 MHz.
Characteristic impedance : 50 or 75 ohm.

- Number of positions : 1,3,5,8
- Push-on feature easy to mate and unmate.
  Simple locking mechanism with polarizing key.
- Low profile : 6.1 mm high on board
- Receptacle with kinked holddowns.
  It facilitates temporary insertion/fitting for soldering.
- The central contact of KD20 types are plated with thick gold of 0.3 μm or more. A higher degree of reliability with two electric contact points. Plug with heat resistant cable.
- Applications :
  50Ω Type／Digital Information Equipment, Communications Equipment, Measuring Instruments, Factory Automation Equipment
  75Ω Type／Image Equipment, Broadcasting Equipment, Multimedia Equipment

■SPECIFICATIONS

Characteristic Impedance	50Ω & 75Ω
Frequency Range	DC to 300MHz
D. W. Voltage	AC250Vr.m.s. (1minute)
Insulation Resistance	100 megohms min. (DC250V)
Contact Resistance	Center Contacts : 80 milliohms max. Outer Contacts : 30 milliohms max.
V. S. W. R.	1.3 max. (DC to 300MHz)
Applicable Cables	50Ω : 0.8D-IEV(LF) For KD20/CO-6F-SB-CX50 75Ω : 0.8CV-E41447(LF)

■MATERIALS/FINISHES

Description	Materials/Finishes
Contacts	Copper Alloy/Gold Plated (Gold Plated Thickness : KD10…0.1 μm min.KD20…0.3 μm min.)
Insulator	Glass-filled 6-6Nylon
Hold-down	Copper Alloy/Tin Plated

■Types and Combinations

Receptacle

●Through-hole Solder
Right-angle
P/N : KD※-RRP*-F-0

Plug

●Straight
Cable Assembly
P/N : KD※-C**-PL*-8*V-*

For the cable application type, harnessed connectors which satisfy your specification are supplied.
We can also provide connectors and cables other than those listed in this catalog. For details, please consult us.

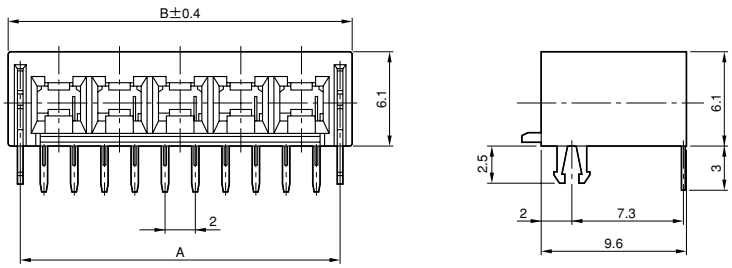
■RECEPTACLE

Through-hole Solder Type

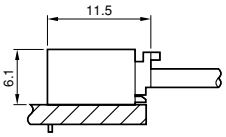
Intermatable with PLUG (69 Page)

Dimensions in millimeters

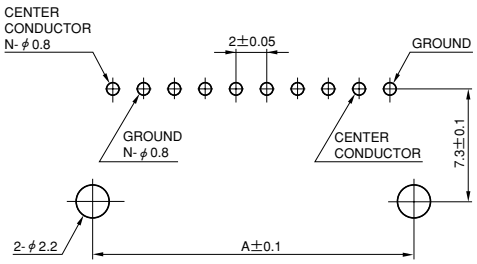
■Right-angle



Dimension of Connector Combinations



PC BOARD LAYOUT • MOUNTING SIDE (REF.)
(PC BOARD THICKNESS : 1.6mm max.)



■Part Number/Dimensions

Number of Contact	Part Number		A	B
	KD10	KD20		
1	KD10-RRP-F-0	KD20-RRP-F-0	5.15	6.7
3	KD10-RRP3-F-0	KD20-RRP3-F-0	13.15	14.7
5	KD10-RRP5-F-0	KD20-RRP5-F-0	21.15	22.7
8	KD10-RRP8-F-0	KD20-RRP8-F-0	33.15	34.7

■Series Classification

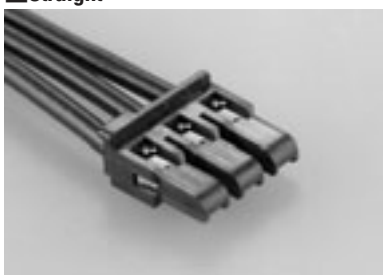
Series Prefix	Gold Plating Thickness of Contact	Structure of Contact
KD10	0.1 μm min.	One contacting points
KD20	0.3 μm min.	Double contacting points

■PLUG

Intermatable with RECEPTACLE (68 Page)

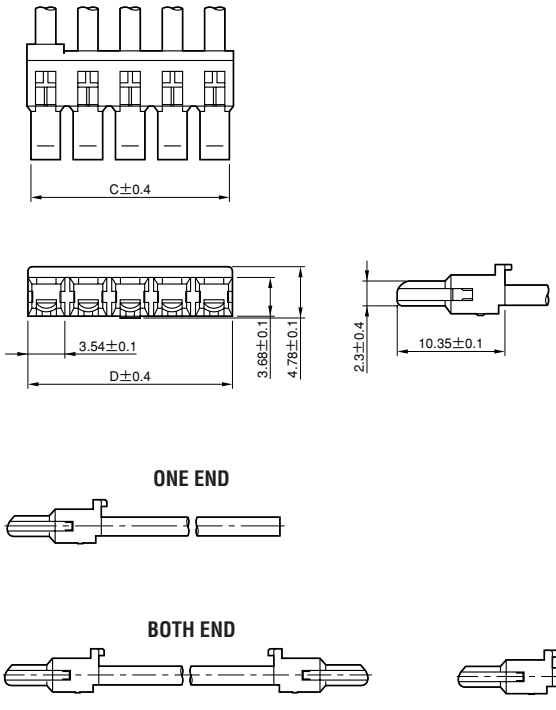
Dimensions in millimeters

■Straight



(Note) The configuration is slightly different from 50 ohm version to 75 ohm version. For details, please consult us.

For Cable application type, harnessed connectors which satisfy your specification are supplied.



■Part Number/Dimensions

Cable Assembly Style	Number of Contact	Part Number			C	D
		50Ω		75Ω		
One End	1	KD10-CA※※-PL-8DV	KD20-CA※※-PL-8DV	KD10-CA※※-PL-8CV	2.8	3.54
	3	KD10-CA※※-PL3-8DV	KD20-CA※※-PL3-8DV	KD10-CA※※-PL3-8CV	10.8	11.54
	5	KD10-CA※※-PL5-8DV	KD20-CA※※-PL5-8DV	KD10-CA※※-PL5-8CV	18.8	19.54
	8	KD10-CA※※-PL8-8DV	KD20-CA※※-PL8-8DV	KD10-CA※※-PL8-8CV	30.8	31.54
Both End	1	KD10-CA※※-2PL-8DV	KD20-CA※※-2PL-8DV	KD10-CA※※-2PL-8CV	2.8	3.54
	3	KD10-CA※※-2PL3-8DV	KD20-CA※※-2PL3-8DV	KD10-CA※※-2PL3-8CV	10.8	11.54
	5	KD10-CA※※-2PL5-8DV	KD20-CA※※-2PL5-8DV	KD10-CA※※-2PL5-8CV	18.8	19.54
	8	KD10-CA※※-2PL8-8DV	KD20-CA※※-2PL8-8DV	KD10-CA※※-2PL8-8CV	30.8	31.54
Reverse	1	KD10-CA※※-2PL-8DV-R	KD20-CA※※-2PL-8DV-R	KD10-CA※※-2PL-8CV-R	2.8	3.54
	3	KD10-CA※※-2PL3-8DV-R	KD20-CA※※-2PL3-8DV-R	KD10-CA※※-2PL3-8CV-R	10.8	11.54
	5	KD10-CA※※-2PL5-8DV-R	KD20-CA※※-2PL5-8DV-R	KD10-CA※※-2PL5-8CV-R	18.8	19.54
	8	KD10-CA※※-2PL8-8DV-R	KD20-CA※※-2PL8-8DV-R	KD10-CA※※-2PL8-8CV-R	30.8	31.54

(Note) ※※ : Add Cable length included connector length (10.35mm).
60mm to 800mm…At intervals of 20mm Over 840mm…At intervals of 40mm

■Series Classification

Series Prefix	Gold Plating Thickness of Contact	Applicable Cables	
		50Ω	75Ω
KD10	0.1μm min.	0.8D-IEV(LF)	0.8CV-E41447(LF)
KD20	0.3μm min.	CO-6F-SB-CX50(Heat-resistant)	—

Before placing an order

①The values specified in this catalogue are only for reference. The products and 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.
②Users 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.
③The products presented in this catalogue 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.

COAXIAL
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