Technology to Inspire Innovation

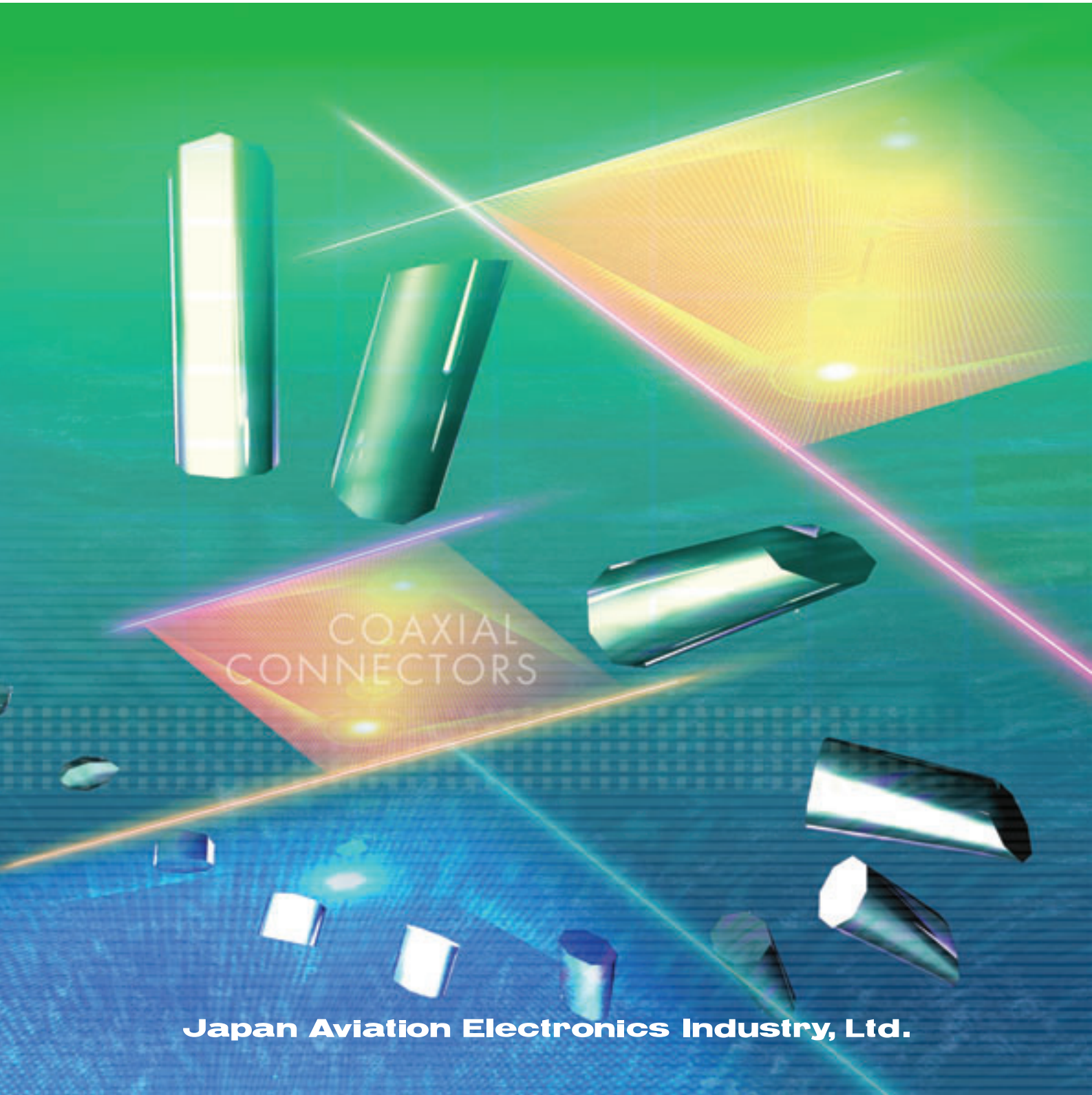
JAE

RoHS Compliant

COAXIAL CONNECTORS

2008

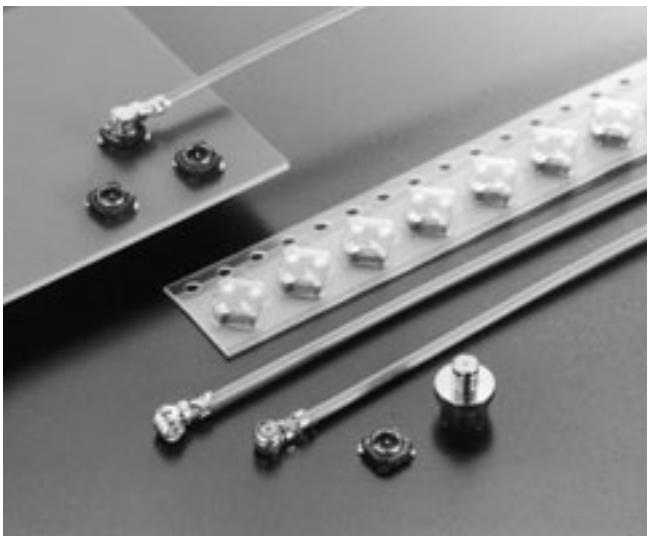
CAT.NO.COAX-007A-E.FEB.2008



Japan Aviation Electronics Industry, Ltd.

■ FREQUENCY RANGE TO 3GHz
■ PUSH-ON COUPLING

CV10 Series



CV10 series small size coaxial connectors are ideal for high-density, reduced size, high frequency devices.
Receptacle can be mounted in an area of 4×4mm on board.
Low profile : 3mm high when mated with the cable plug.
Applicable frequencies : from DC up to 3GHz. High performance with a VSWR（voltage standing wave ratio）of 1.3 or less.

- Sure locking feeling on mating. Push-on coupling provides stable retention.
- Two versions of board mount receptacle : SMT type enabling automatic mount and through-hole type.
  SMT connectors can be supplied in embossed taping.
- Extra-fine coaxial cable（1.3mm in outer diameter）with double thread outer conductor excellent in flexibility.
  Provides a higher degree of freedom in wiring. Most suitable for high density packaging.
- Applications : Cordless Phone, Mobile Phone, GPS,
  Various Communications Equipment,
  Radio Terminal for Personal Computer,
  High Frequency Measuring Instruments

*GPS（GLOBAL POSITIONING SYSTEM/CAR NAVIGATION）

■SPECIFICATIONS

Characteristic Impedance	50Ω
Frequency Range	DC to 3GHz
D. W. Voltage	AC500Vr.m.s.（1minute）
Insulation Resistance	500 megohms min.（DC500V）
Contact Resistance	Center Contacts : 30 milliohms max. Outer Contacts : 15 milliohms max.
V. S. W. R.	1.3 max.（DC to 3GHz）
Applicable Cables	0.8D EQUIVALENT（SPECIAL）

■MATERIALS/FINISHES

Description	Materials/Finishes
Center Contacts	Copper Alloy/Gold Plated over Nickel
Outer Contacts	Copper Alloy : Receptacle /Tin Plated Plug/Nickel Plated
Insulator	Receptacle/Glass-filled PPS Cable Plug/Glass-filled PBT Through-hole Plug/PTFE
Shell	Copper Alloy /Tin Plated

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.

■TYPES AND COMBINATIONS

Dimensions in millimeters

Plug Receptacle

●Through-hole Solder・Straight
P/N：CV10-PLP-F-0-R



Receptacle

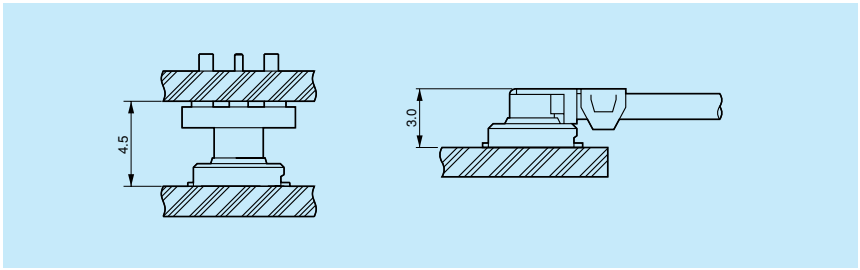
●SMT・Straight
P/N：CV10-RP-M-0



Plug

●Right-angle・Cable Assembly
P/N：CV10-CA※-＊RPL-8DW





Adapter



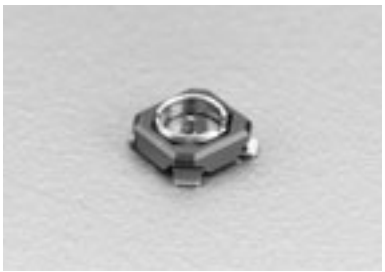
Various adapters are available.
See pages 93 to 107.

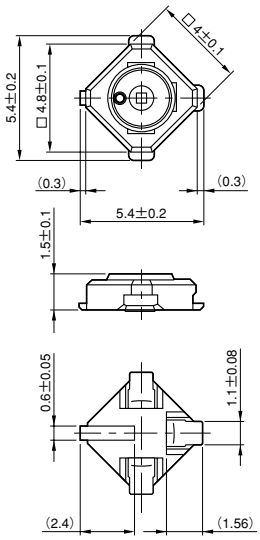
■RECEPTACLE
SMT Type

Intermatable with PLUG RECEPTACLE & PLUG (74 Page)

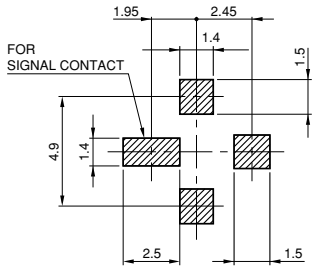
Dimensions in millimeters

■Straight
Part Number : CV10-RP-M-0

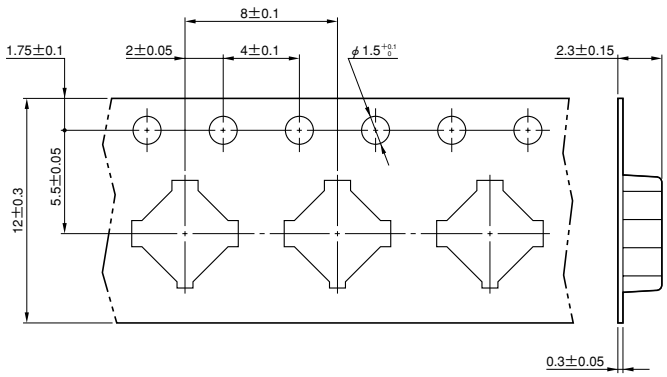




PC BOARD LAYOUT • MOUNTING SIDE (REF.)
(PC BOARD THICKNESS : 0.8mm)

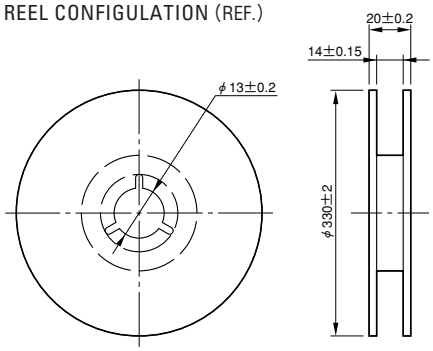


■ENBOSSED TAPE REELS
Part Number : CV10-RP-M-0-E1000



(Note) 1,000 connectors/1 reel

REEL CONFIGULATION (REF.)



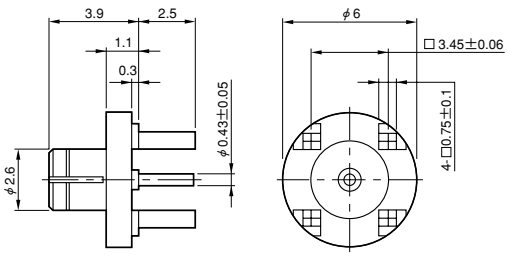
■PLUG RECEPTACLE
■PLUG

Intermatable with RECEPTACLE (73 Page)

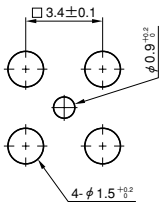
Dimensions in millimeters

■PLUG RECEPTACLE
Through-hole Solder・Straight
Part Number：CV10-PLP-F-0-R





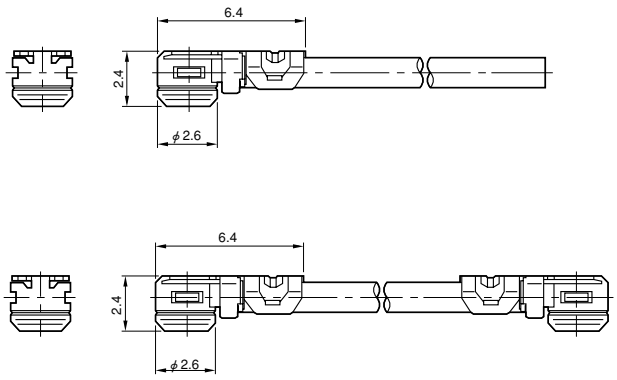
PC BOARD LAYOUT・MOUNTING SIDE (REF.)



■PLUG
Right-angle



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



■Part Number

Cable Assembly Style	Part Number	Applicable Cables
One end	CV10-CA**-RPL-8DW	0.8D EQUIVALENT (SPECIAL)
Both end	CV10-CA**-2RPL-8DW	

(Note) * Add cable length (mm).

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
CONNECTORS

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