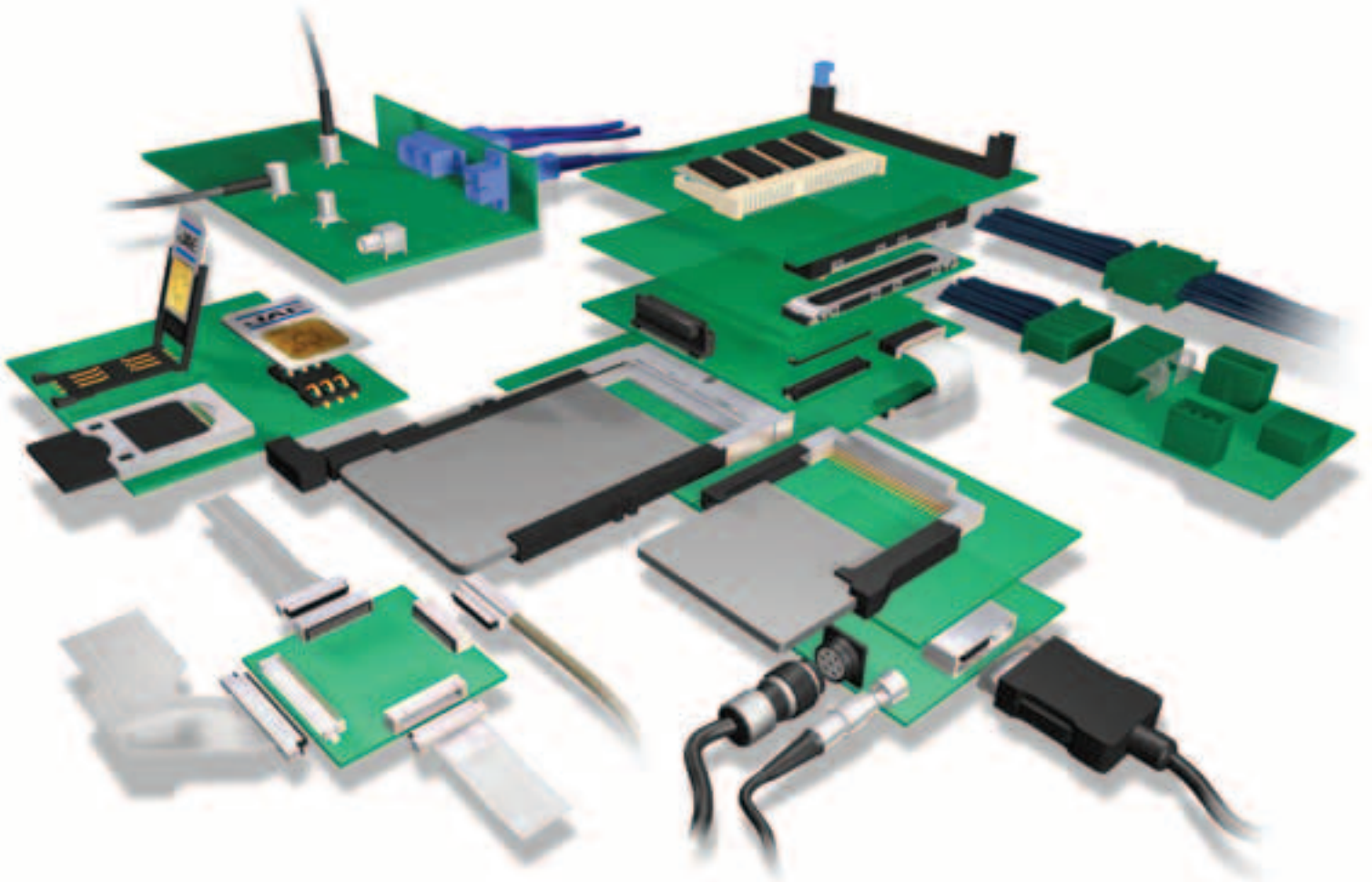


Technology to Inspire Innovation

Preferred Connector Products

JAE



JAE Electronics, Inc.

For Additional Information Visit www.jae-connector.com

Japan Aviation Electronics Industry, Ltd. (JAE) is an international manufacturer and supplier of electronic components and systems. For over four decades, JAE has provided the electronics industry with solutions to complex design requirements. Since its founding, the Company has strived to contribute to society through market-driven, technology-based global business operations under the philosophy: "Technology to Inspire Innovation."

With worldwide and world-class manufacturing certified to ISO 9001 and QS 9000, JAE has made the commitment to meet the global requirements of our customer. In addition to a network of state of the art manufacturing facilities, JAE has technical service offices located around the world, staffed with experts in connector design and application.

This catalog contains a select overview of JAE Connector Products. For in-depth information on our complete product line, and information on new developments, visit JAE's online catalog at www.jae-connector.com.

Innovative design, quality oriented manufacturing, commitment to our customers and sensitivity to the environment assures JAE's leadership position in the 21st century.

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- All JAE connector products shown in this catalog are lead free.
- We reserve the right to modify designs in order to improve quality, keep pace with technological advancements or meet particular requirements in production.
- Products shown in this catalog are made for the applications specified. However, if the above-mentioned products are to be used in aerospace devices, marine cable-connection devices, atomic power control systems, medical equipment for life-support systems, or any other specific application requiring extremely high reliability, please contact JAE for further information. Recommended Applications: Computers, Office Machines, Measuring Devices, Telecommunications Devices (Terminals, Mobile Devices) AV Devices, Household Applications, FA Devices, etc.
- Refer to end of catalog for alphabetical index of products.

CN10 SERIES CONNECTORS

Miniature Coaxial Connectors



FEATURES

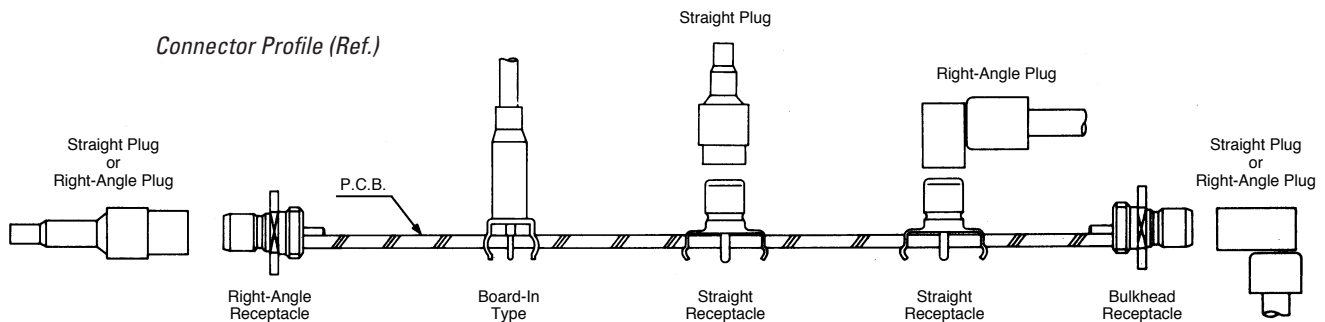
- Miniature connectors for board-to-coaxial jumper cable applications. Designed per MIL SMB type and JIS-C-5415
- Applicable frequency range is zero through 3 GHz. High impedance matching: the voltage standing wave ratio is less than 1.1 (Right-angle receptacle is 1.2 max. voltage standing wave ratio.)
- Low profile: the height on the board is 8mm (.315") to 9mm (.354") when a right-angle plug is mated with a straight receptacle
- An extrusion on the shell innerwall of the plug ensures mechanical and electrical integrity
- Plugs are supplied as cable assemblies
- The straight receptacle and board-in plug have kinked leads to hold connector during soldering



Miniature connectors for board-to-jumper coaxial cable applications intended for transmission of high frequency waves and high density packaging in electronic devices. With the combination of three types of receptacle (straight, right-angle and bulkhead) and three types of plug (straight, right-angle and board-in), it is feasible to have various connection styles. Suitable for use in automotive telephone sets, portable telephone sets, various communication devices and electronic measuring instruments.

GENERAL SPECIFICATIONS

Characteristic Impedance	50 ohms
Current Rating	DC 2 Amps per contact
Voltage Rating	100 VAC r.m.s. (for one minute)
Dielectric Withstanding Voltage	200 VAC r.m.s. (for one minute)
Insulation Resistance	500 megohms min. (DC 250 V)
Contact Resistance	Center Contacts: 8 milliohms (max.) Outer Contacts: 8 milliohms (max.)
Voltage Standing Wave Ratio	1.2 max. (DC -3 GHz)
Total Mating Force	49N (max.)
Total Unmating Force	8.8 N (max.)
Operating Temperature Range	-55°C to +165°C (Connector only) Only right-angle receptacle is -40°C ~ 85°C
Applicable Cables	1.5 D-QEV (1.5 D-2V) 1.5 D-QEW (1.5 D-2W) 0.8 D-QEW (0.8 D-2W)



Dimensions and specifications subject to change without notice.

CN10 SERIES CONNECTORS

Miniature Coaxial Connectors

STANDARD CABLE ASSEMBLIES (PLUG INCLUDED)

- For plug side, cable harnessed plug will be supplied
- The length (L in the figure below) is 100mm (3.937")
- For other lengths, consult JAE

Part No. Explanation

	CN10	-	CA	100	-	RPL	-	*	-	E
	CN10	-	CA	100	-	BI	PL	-	*	E
Series										
Cable Harness Mark										
Cable Length										
L - 100mm										
Connector Configuration										
PL - Straight Plug										
RPL - Right-Angle Plug										
Connector Configuration										
PL - Straight Plug										
RPL - Right-Angle Plug										
Applicable Cable										
15 DV - 1.5D-QEV (1.5D-2V)										
15DW - 1.5D-QEW (1.5D-2W)										
8 DW - 0.8D-QEW (0.8D-2W)										
Lead Free Version										

		Applicable Cable	Part Number
Single-end termination	• Right-angle plug 	1.5D -QEV (1.5D-2V)	CN10-CA100-RPL-15DVE
		1.5D -QEW (1.5D-2W)	CN10-CA100-RPL-15DWE
	• Straight plug 	1.5D -QEV (1.5D-2V)	CN10-CA100-PL-15DV
		0.8D -QEW (0.8D-2W)	CN10-CA100-PL-15DW
Double-end termination	• Right-angle plug 	1.5D -QEW (1.5D-2W)	CN10-CA100-PL-8DW
		0.8D -QEW (0.8D-2W)	CN10-CA100-RPL-RPL-15DW
	• Right-angle plug and Board-in type 	1.5D -QEW (1.5D-2W)	CN10-CA100-BI-RPL-15DV
		0.8D -QEW (0.8D-2W)	CN10-CA100-BI-RPL-15DW
	• Straight plug and Board-in type 	1.5D -QEW (1.5D-2W)	CN10-CA100-BI-PL-15DV
		1.5D -QEW (1.5D-2W)	CN10-CA100-BI-PL-15DW
	• Straight plug and Right-angle plug 	0.8D -QEW (0.8D-2W)	CN10-CA100-BI-PL-8DW
		1.5D -QEW (1.5D-2W)	CN10-CA100-RPL-15DW

Dimensions in mm (inches).

Technology to Inspire Innovation

JAE

***“Building Technologies
to Connect Your World”***



Japan Aviation Electronics Industry, Limited

1-19, Aobadai 3-chome, Meguro-ku
Tokyo 153-8539, Japan
Telephone: 03-3780-2736
Fax: 03-3780-2883

JAE Electronics, Inc.

142 Technology Drive, Suite 100
Irvine, California 92618-2430, U.S.A.
Telephone: 949-753-2600
Fax: 949-753-2699
800-523-7278 Toll free in the U.S.A.

JAE Europe

Coliseum Business Centre
Riverside Way, Camberley
Surrey, GU15 3YL, England
Telephone: 44-1276-404000
Fax: 44-1276-404010

JAE Taiwan, Ltd.

4F-1, No. 88, Chung Hsiao E. Rd.
Sec. 2, Taipei, Taiwan, R.O.C.
Telephone: 886-2-2396-7676
Fax: 886-2-2392-5929

JAE Hong Kong, Ltd.

Suites 1407-11, 14/F, Tower 2, The Gateway,
25 Canton Road, Tsimshatsui, Kowloon, Hong Kong
Telephone: 852-2723-7782
Fax: 852-2723-9028

JAE Korea, Inc.

1602, Korea City Air Tower
159-9 Samsung-Dong, Kangnam-ku
Seoul, 135-973, Korea
Telephone: 82-2-551-8959
Fax: 82-2-551-8958

JAE Philippines, Inc.

PEZA Zone, Gateway Business Park, Javalera
General Trias, 4107 Cavite, Philippines
Telephone: 63-46-433-0285
Fax: 63-46-433-0287

JAE Singapore Pte., Ltd.

33 Tannery Lane, #02-01 Hoesteel
Industrial Building
Singapore 347789
Telephone: 65-6748-1332
Fax: 65-6748-2920

JAE Shanghai Co., Ltd.

RM 1407, Shanghai Mart 2299 Yanan Rd.
West Shanghai 200336 P.R.C.
Telephone: 86-21-6236-0322
Fax: 86-21-6236-1292