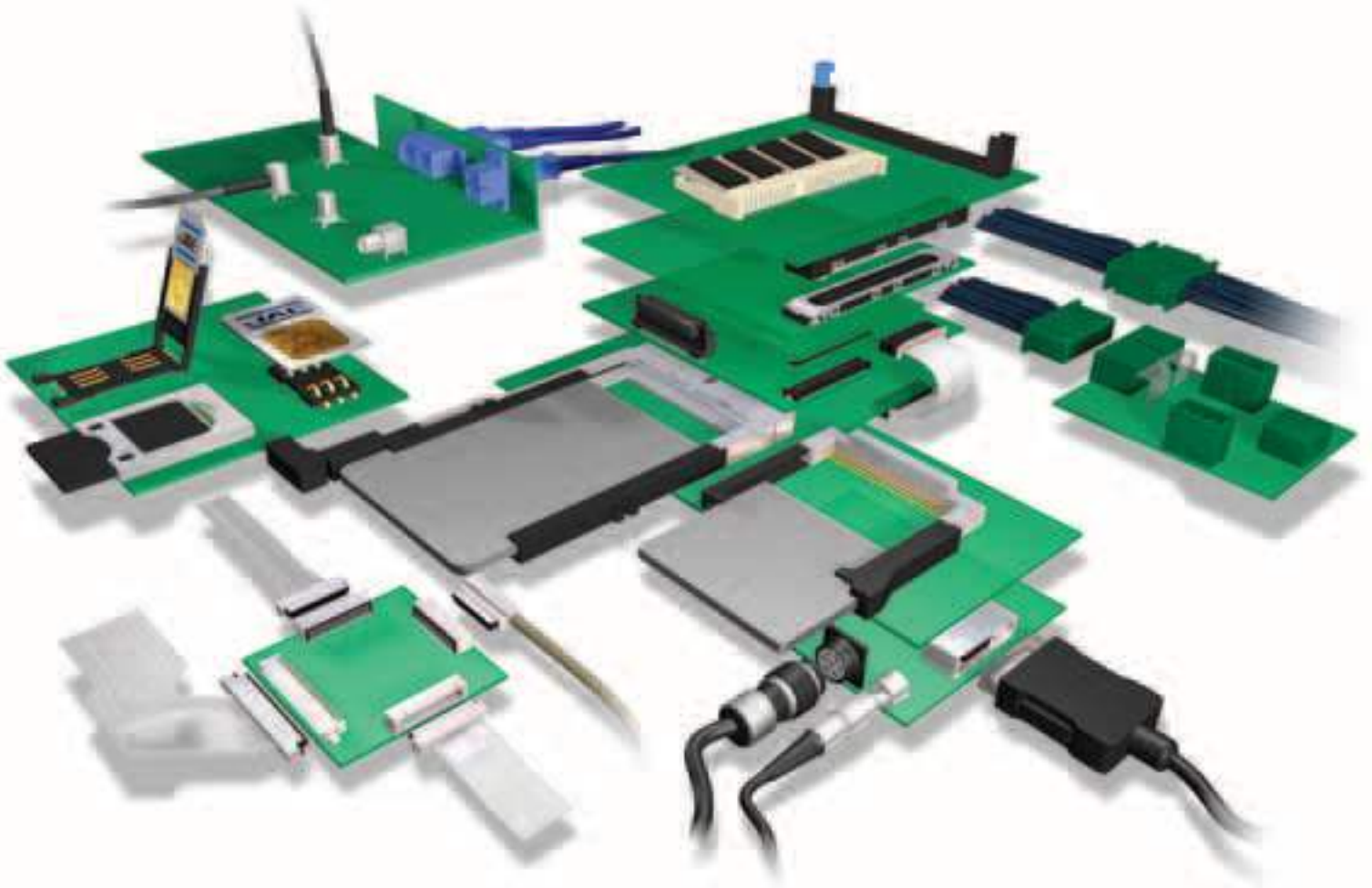


Technology to Inspire Innovation

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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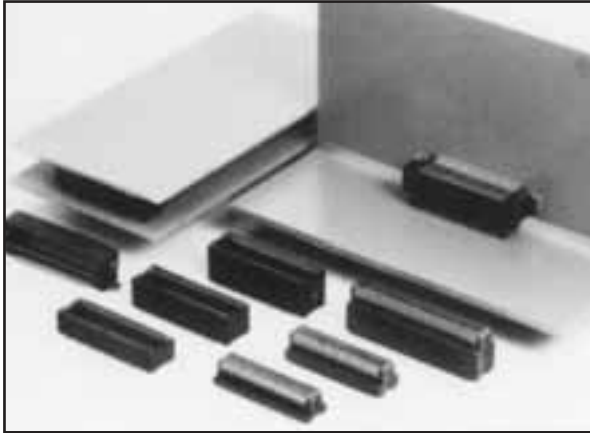
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- All JAE connector products shown in this catalog are lead free.
 - We reserve the right to modify designs in order to improve quality, keep pace with technological advancements or meet particular requirements in production.
 - Products shown in this 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.

WR SERIES CONNECTORS

0.50mm (.020") Contact Spacing, PCB-to-PCB SMT Connectors



FEATURES

- Ribbon contact design (surface contact)
- Right Angle/Parallel Board-to-Board Connections
- Nine varieties 4 to 9mm (.157 to .354") of parallel board-to-board distance
- Three straight type insulator heights
- Metal hold-downs on both ends of right angle type prevent floating up during automatic mounting
- PCB area beneath insulator may be used for circuit traces
- Available in embossed tape for automatic SMT mounting
- Contact terminal length permits image recognition

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The WR Series are SMT-type connectors for PCB-to-PCB applications. These subminiature, low profile connectors keep the required space and height on the PCB to a minimum. High density, ribbon-type contacts are on 0.5mm (.020") centers.

Applications include camcorders, notebook PCs, cellular telephones and other electronic equipment requiring high density packaging.

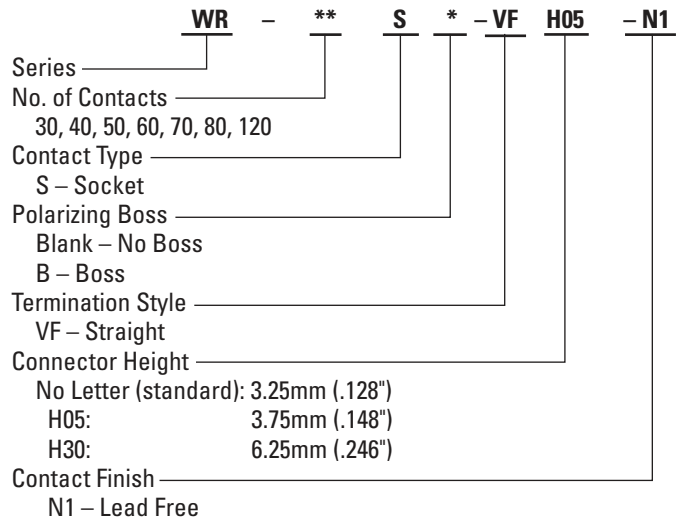
GENERAL SPECIFICATIONS

Number of Contacts	Straight: 20, 22, 28, 30, 40, 50, 60, 70, 80, 100, 120, 160 Right Angle: 20, 30, 40, 50, 60, 70, 80, 120
Contact Spacing	0.50mm (.020")
Current Rating	0.3 Amp per contact
Dielectric Withstanding Voltage	500 VAC r.m.s. (for one minute)
Insulation Resistance	100 megohms min.
Contact Resistance	50 milliohms max. (Vertical: 70 milliohms max.)
Operating Temperature	-40°C to +85°C

MATERIALS AND FINISHES

Description	Materials/Finishes
Insulator	Socket side: Glass-filled LCP (UL94V-0, Black) Pin side: Glass-filled PPS (UL94V-0, Black)
Contact	Copper Alloy Connecting area: Gold Plating 0.1µm (.000004") min. over Nickel Terminal area: Tin Plating over Nickel or Gold flashover Nickel
Hold-down	Copper Alloy/Tin Plating

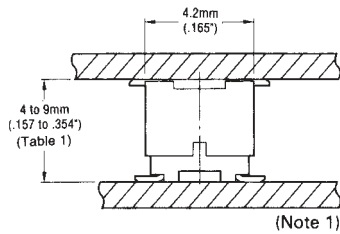
ORDERING INFORMATION



WR SERIES CONNECTORS

0.50mm (.020") Contact Spacing, PCB-to-PCB SMT Connectors

Connector Profile (Ref.)



PIN SIDE
Straight • Standard Type
WR-**-VF-N1

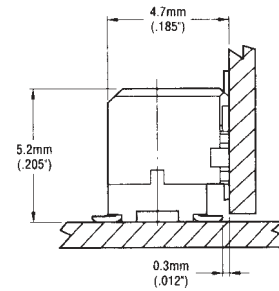
Straight • 50 Type
WR-**-VF50-N1

Straight • 60 Type
WR-**-VF60-N1

SOCKET SIDE
Straight • Standard Type
WR-**-VF-N1

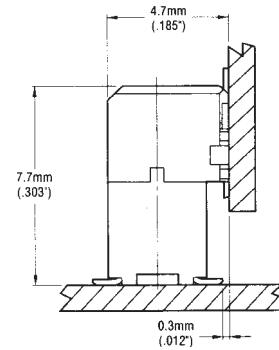
Straight • H05 Type
WR-**-VFH05-N1

Straight • H30 Type
WR-**-VFH30-N1



PIN SIDE
Right Angle Type
WR-**-HF-HD-A1E

SOCKET SIDE
Straight • H05 Type
WR-**-VFH05-N1



PIN SIDE
Right Angle Type
WR-**-HF-HD-A1E

SOCKET SIDE
Straight • H30 Type
WR-**-VFH30-N1

Note 1: 3 connector heights are available for straight type.
Parallel board-to-board distance can be selected in a range from 4mm (.157") to 9mm (.354") [9 kinds].

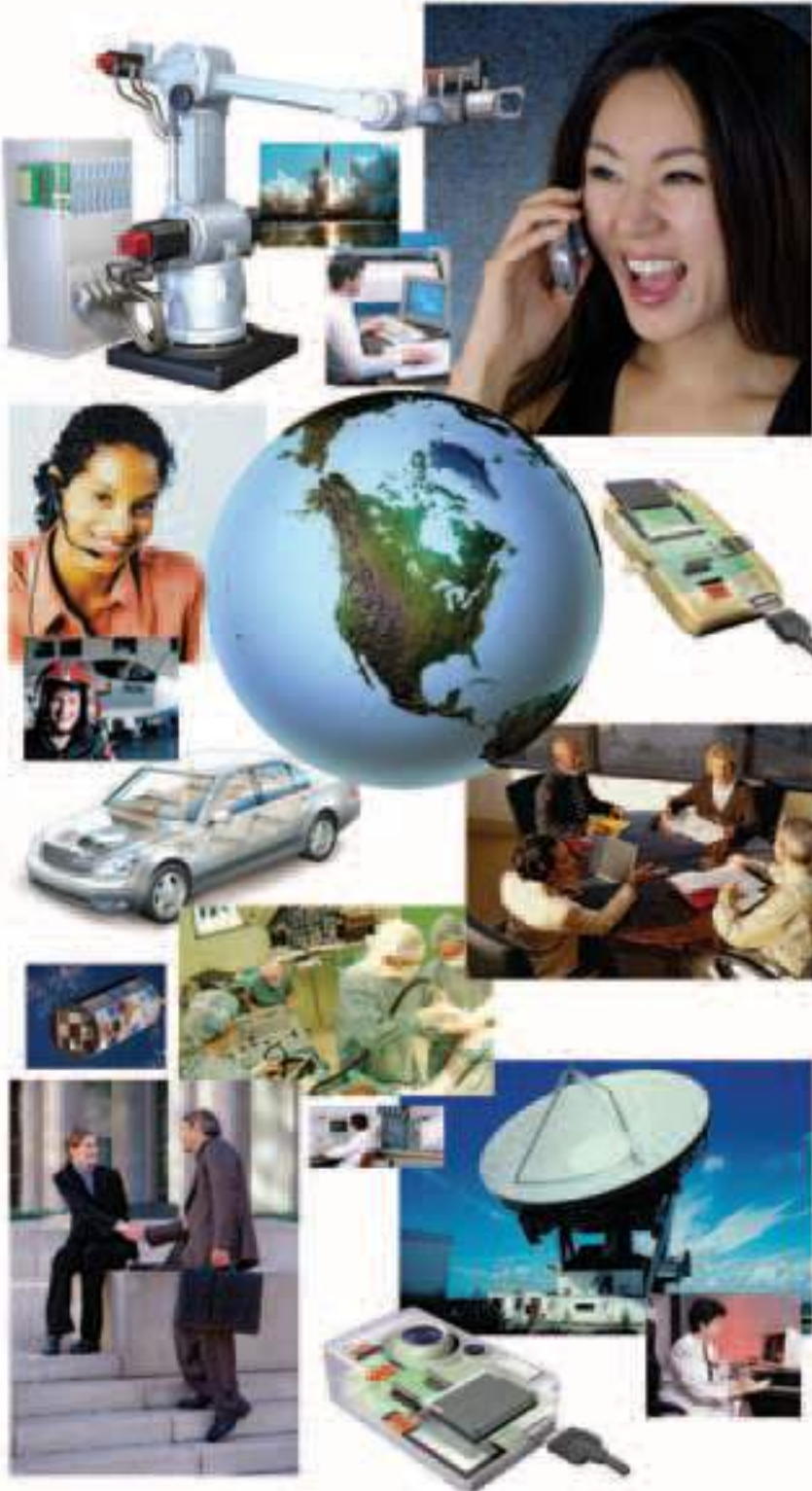
Table 1

		SOCKET SIDE			
		Connector type	Standard type	H05 type	H30 type
PIN SIDE	Standard type	4.0mm (.157")	4.5mm (.177")	7.0mm (.276")	
	50 type	5.0mm (.197")	5.5mm (.217")	8.0mm (.315")	
	60 type	6.0mm (.236")	6.5mm (.256")	9.0mm (.354")	

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