

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.

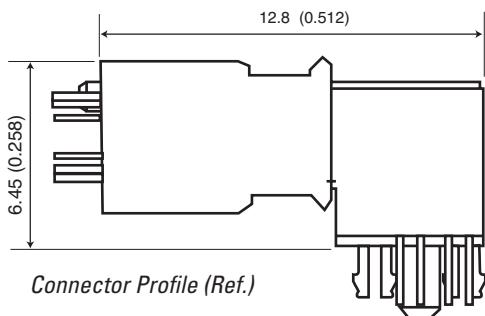
WM1 SERIES CONNECTORS

1.00mm (0.039") Contact Spacing, PCB-to-PCB Bay Connectors



FEATURES

- Bay connectors with 1.0mm (.039") pitch and 68 contacts support USB 2.0 in addition to IDE for signal
- Metal shell used for EMI prevention
- A 5.55mm (.218") connector height realizes a low profiled board-to-board bay connector
- Supports hot plug by using a 2-level hot plug structure on plug side (WM1M068U1A). Two types of valid connection lengths, 2.9mm (.114") and 2.5mm (.098"), for contacts to support 2 levels of hot plug (difference in level 0.4mm (.016"))
- Plug side of WM1M068U1A and receptacle side of WM1F068U1A both equip positioning bosses to support through hole reflow
- 12.8mm (.504") mating depth
- Plug side of WM1M068U1A supports Interposer boards (SLB-XDE-1, -TMK-1)
- Superior positioning error absorption structure. Insertion guide is used to absorb errors during drive insertion and removal.
Width: ± 2.0 mm, height: ± 2.0 mm
- Lifetime: 50,000 times
- Products available with 1.0 μ m and 0.76 μ m Gold Plating thicknesses on connection area of contacts ensuring high reliability
- Key prevents mis-mating



The WM1 Series of bay connectors enable 1.00mm (0.04") pitch while supporting USB 2.0.

GENERAL SPECIFICATIONS

Number of Contacts	68 pos.
Contact Spacing	1.00mm (0.039")
Current Rating	0.5 Amp per contact
Dielectric Withstanding Voltage	250 VAC r.m.s. (for one minute)
Insulation Resistance	100 megohms min. after test
Contact Resistance	60 milliohms max.
Operating Temperature	-40°C to +85°C
Rated Voltage	AC, 125 V r.m.s.
Life Cycles	5,000 cycles min.

MATERIALS AND FINISHES

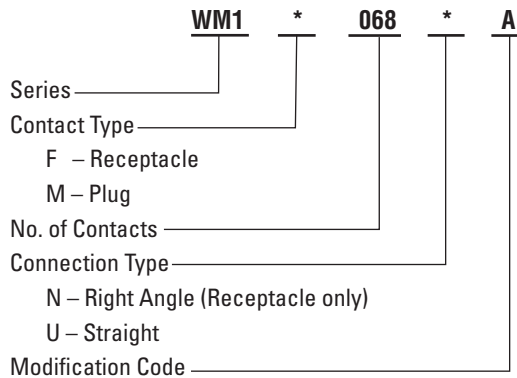
• WM1F068N1A / WM1F068U1A

Description	Materials/Finishes
Contact	Copper Alloy Connecting area: Gold Plating Terminal area: Tin Type Plating
Insulator	Heat Resistant Plastic Glass Filled LCP (UL94V-0) Black
Shell	Stainless Steel, Nickel Plating

• WM1M068U1A

Contact	Copper Alloy Connecting area: Gold Plating Terminal area: Tin Type Plating
Insulator	Heat Resistant Plastic Glass Filled LCP (UL94V-0) Black
Shell	Steel, Nickel Plating

ORDERING INFORMATION



Dimensions and specifications subject to change without notice.

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



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