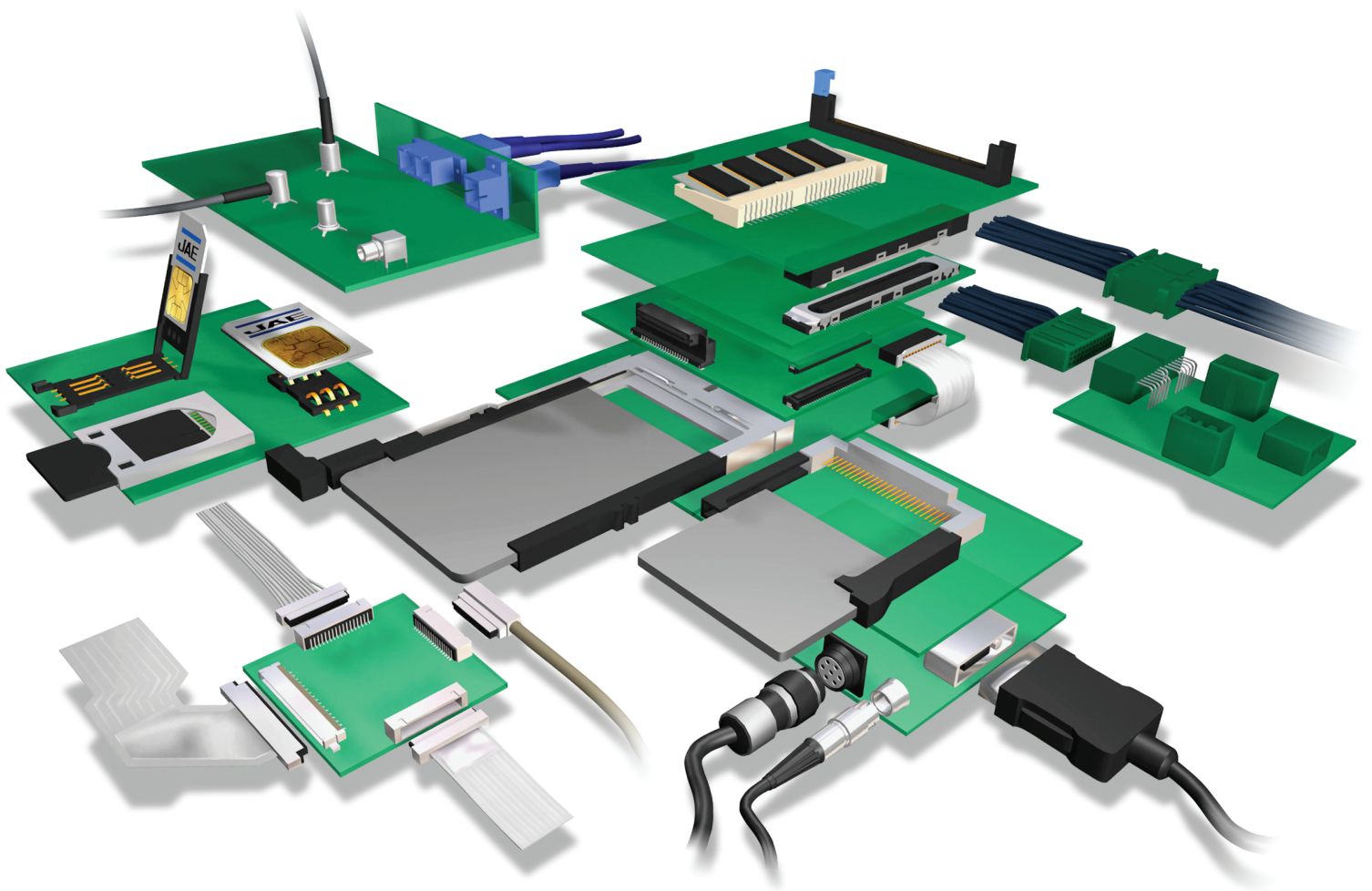


Technology to Inspire Innovation

# ***Preferred Connector Products***

# **JAE**



***JAE Electronics, Inc.***

***For Additional Information Visit [www.jae-connector.com](http://www.jae-connector.com)***

**J**apan 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](http://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 21<sup>st</sup> century.

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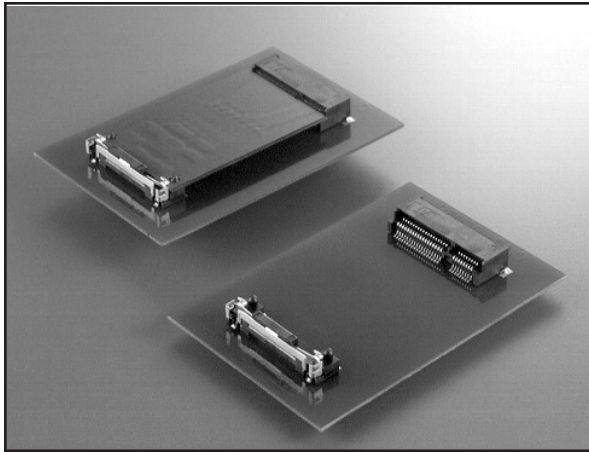
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- All JAE connector products shown in this catalog are lead free.
- We reserve the right to modify designs in order to improve quality, keep pace with technological advancements or meet particular requirements in production.
- Products shown in this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

# MM60 SERIES CONNECTORS

0.8mm (.031") Contact Spacing, Compatible to PCI Express Mini Card



## FEATURES

- Compatible with PCI-SIG standard for PCI Express Mini-Card and PCI Express cards and modules for USB transmission
- Available with mounting latch for complete connector and module
- Latch has operating portion on both ends for module ejection
- Module available with two mounting heights
- Connector and latch suitable for automated mounting
- Embossed tape and reel packaging

## ORDERING INFORMATION - Connector

|                          |      |   |    |   |   |   |   |   |      |
|--------------------------|------|---|----|---|---|---|---|---|------|
|                          | MM60 | - | 52 | B | 1 | - | * | 1 | R*** |
| Series                   |      |   |    |   |   |   |   |   |      |
| No. of Contacts          |      |   |    |   |   |   |   |   |      |
| Socket Type              |      |   |    |   |   |   |   |   |      |
| Key Type                 |      |   |    |   |   |   |   |   |      |
| Height Mod Code          |      |   |    |   |   |   |   |   |      |
| B = 3.9mm                |      |   |    |   |   |   |   |   |      |
| E = 5.9mm                |      |   |    |   |   |   |   |   |      |
| Contact Finish           |      |   |    |   |   |   |   |   |      |
| 1 - Gold Plating (0.1µm) |      |   |    |   |   |   |   |   |      |
| Tape and Reel            |      |   |    |   |   |   |   |   |      |
| R850 - 850 pcs/reel (B)  |      |   |    |   |   |   |   |   |      |
| R50 - 650 pcs/reel (E)   |      |   |    |   |   |   |   |   |      |

## ORDERING INFORMATION - Latch

|                              |      |   |    |      |   |   |   |      |
|------------------------------|------|---|----|------|---|---|---|------|
|                              | MM60 | - | EZ | **** | - | B | 5 | R*** |
| Series                       |      |   |    |      |   |   |   |      |
| Latch type                   |      |   |    |      |   |   |   |      |
| Application Connector Height |      |   |    |      |   |   |   |      |
| Height Mod Code B = H039     |      |   |    |      |   |   |   |      |
| Height Mod Code E = H059     |      |   |    |      |   |   |   |      |
| With Boss                    |      |   |    |      |   |   |   |      |
| 5 - Tin Plating              |      |   |    |      |   |   |   |      |
| Tape and Reel                |      |   |    |      |   |   |   |      |
| R850 - 850 pcs/reel (B)      |      |   |    |      |   |   |   |      |
| R50 - 650 pcs/reel (E)       |      |   |    |      |   |   |   |      |

The MM60 series is a module socket compatible to specifications standardized in the PCI-SIG

## GENERAL SPECIFICATIONS

|                                 |                                                                    |
|---------------------------------|--------------------------------------------------------------------|
| Number of Contacts              | 52 pos.                                                            |
| Contact Spacing                 | 0.8mm (.031")                                                      |
| Contact Resistance              | 55m milliohms max. (initial)                                       |
| Dielectric Withstanding Voltage | AC 300Vr.m.s (per minute)                                          |
| Operating Temperature           | -40°C to +80°C                                                     |
| Rated Current                   | 0.5A per pin                                                       |
| Lifetime                        | 50 times                                                           |
| Insertion Loss                  | 1dB min.(1.25Ghz max.)<br>-5dB min.(3.75Ghz max.)                  |
| Return Loss                     | 12dBmax.(1.3GHz max.)<br>-7dBmax.(2Ghz max.)<br>-4dB(3.75GHz max.) |
| Cross talk (near end)           | -32dB max.(1.25Ghz max.)<br>-26dBmax.(3.75Ghz max.)                |

## MATERIALS AND FINISHES

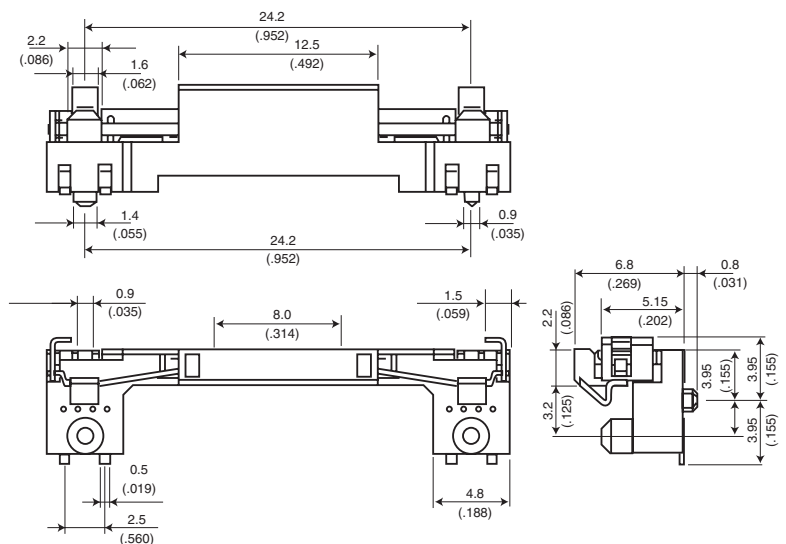
### Connector

|           |                                                                                              |
|-----------|----------------------------------------------------------------------------------------------|
| Contact   | Copper alloy/Contact area: Gold plating over Nickel<br>Terminal area: Gold flash over Nickel |
| Insulator | Heat resistant material (UL94V-0)                                                            |
| Hold Down | Copper Alloy/Tin plating                                                                     |

### Latch

|           |                                   |
|-----------|-----------------------------------|
| Contact   | Stainless steel/ Tin plating      |
| Insulator | Heat resistant material (UL94V-0) |

### Connector Profile (Ref.)



Dimensions and specifications subject to change without notice.



Technology to Inspire Innovation



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to Connect Your World"***



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