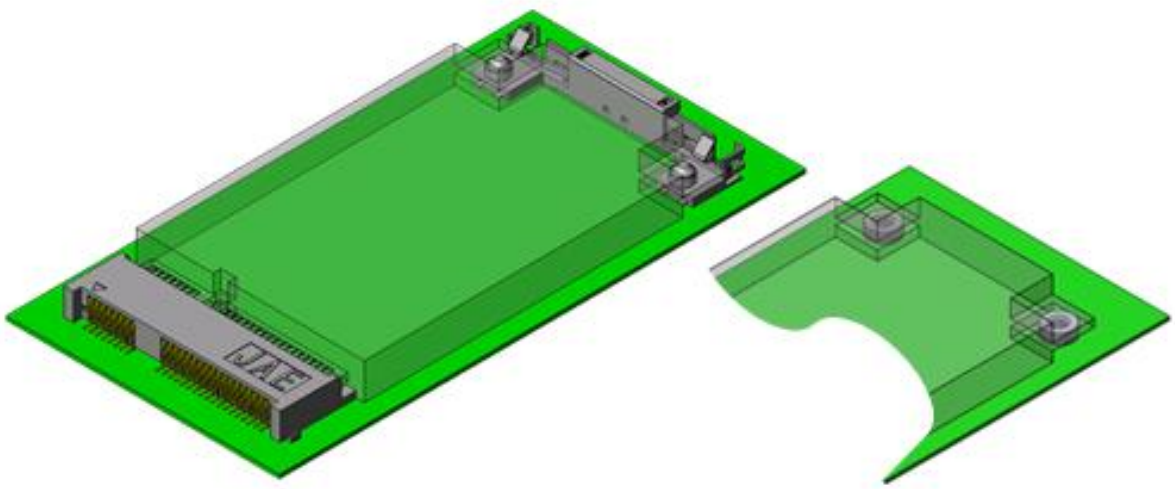
Compatible With PCI Express Mini Card CONNECTOR

MM60 Series

MB-0147-7
Sep.2024

RoHS Compliant



The MM60 Series is a module socket compatible with the specifications defined by the PCI-SIG.

Application

notebook PCs, other devices

Features

- Compatible with the PCI Express Mini Card Electromechanical Specification and can be used for connecting with modules with PCI Express and USB communication.
- Retention latch part available to fix module to connector.
  Latch has mechanisms on both sides for module ejection.
- Two types of module mounting heights are available.
  Stand-off type allows components of under 1.8mm height to be placed below the module.
- Connector and latch are compatible with automatic mounting.
  Embossed tape packaging.

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General Specifications

Number of Contacts	52 pos.
Contact Resistance	60mΩ max. (initial)
Dielectric Withstanding Voltage	AC300Vr.m.s. (per minute)
Durability	50 times
Operating Temperature Range	-40 deg. C to +85 deg. C
Rated Current	0.5A/pos.
Insertion Loss	-1dB min. (1.25GHz max.) / -5dB min.(3.75GHz max.)
Return Loss	-12dB max.(1.3GHz max.) / -7dB max.(2GHz max.) / -4dB(3.75GHz max.)
Crosstalk (Near End)	-32dB max.(1.25GHz max.) / -26dB max.(3.75GHz max.)

Materials and Finishes

Component	Materials	Finishes
Connector		
Contact	Copper alloy	Au plating over Ni (contact area) Au flash plating over Ni (terminal area)
Insulator	Heat resistant material (UL94V-0)	
Hold down	Copper alloy	Sn plating
Latch		
Contact	Stainless steel	Sn plating
Insulator	Heat resistant material (UL94V-0)	
Nut		
Nut	Brass	Sn plating

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Ordering Information

【Connector】

MM60 - 52 B 1 - E 1

- MM60 — Series：MM60
- 52 — No. of Contacts：52 pos.
- B — Socket Type
- 1 — Key Type
- E — Height, Modification Code
- 1 — Contact Finish：1：Au plating(0.1μm)

【Latch】

MM60 – EZ H059 – B 5

- MM60 — Series：MM60
- EZ — Latch Type
- H059 — Applicable Connector Height
- B — With boss
- 5 — 5：Sn plating

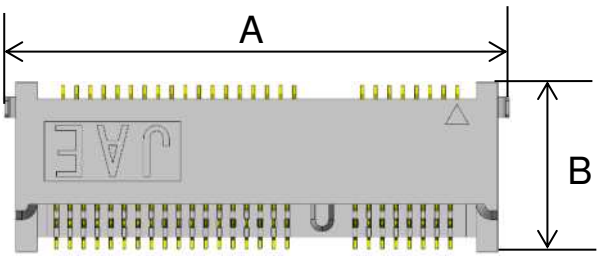
Combination

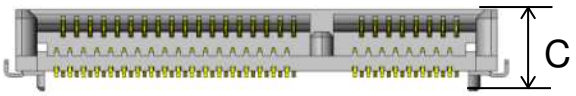
	Connector	Latch	Nut
Height 1	MM60-52B1-B1	MM60-EZH039-B5	NT1
	MM60-52B1-G1		
Height 2	MM60-52B1-E1	MM60-EZH059-B5	NT4

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Outer Dimensions

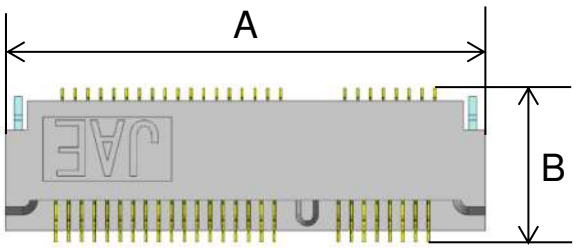
【Connector】

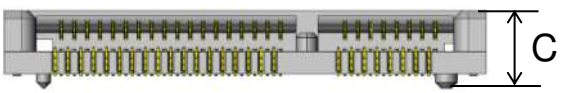




Unit：mm

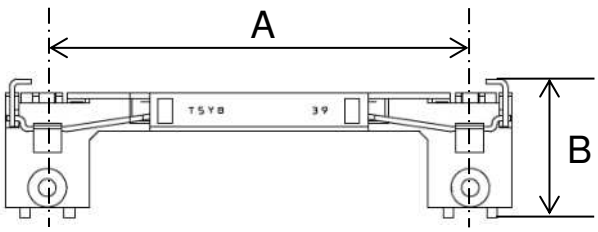
Part Number	A	B	C
MM60-52B1-B1	29.7	10.0	4.7
MM60-52B1-E1	29.7	10.0	6.7





Part Number	A	B	C
MM60-52B1-G1	29.9	9.6	4.8

【Latch】



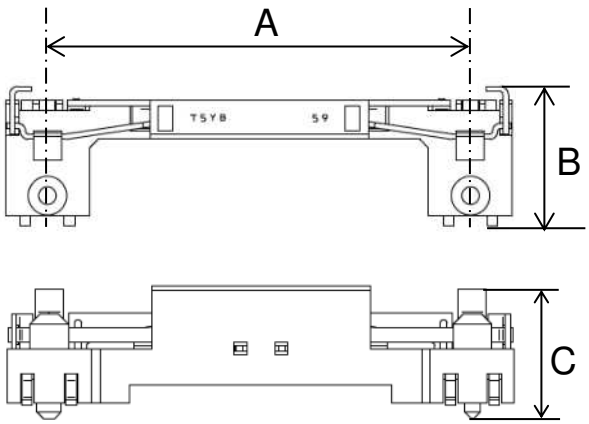


Product name	A	B	C
MM60-EZH039-B5	24.2	7.9	5.6

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Outer Dimensions

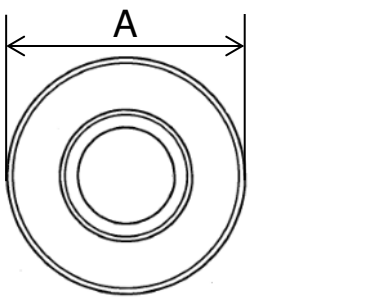
【Latch】



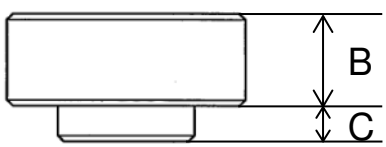
Unit：mm

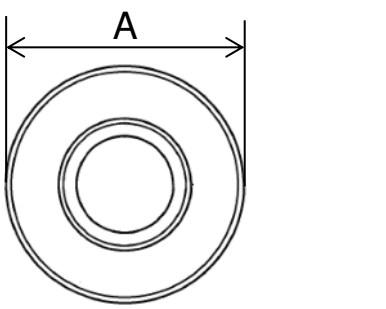
Part Number	A	B	C
MM60-EZH059-B5	24.2	7.9	7.6

【Nut】

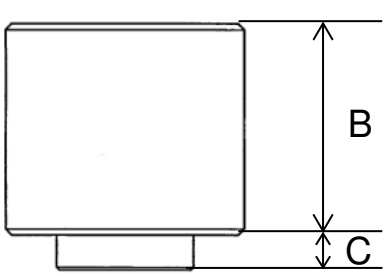


Part Number	A	B	C
NT1	Φ4	1.55	0.6





Part Number	A	B	C
NT4	Φ4	3.55	0.6



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Part Numbers and Product Drawings

Part Number	Drawing Number	Specifications	Handling Instructions
MM60-52B1-B1	SJ105215 (Individual Product)	JACS-10313	JAHL-10313
MM60-52B1-B1-R850	SJ105216 (Reeled Product)		
MM60-52B1-E1	SJ105219 (Individual Product)		
MM60-52B1-E1-R650	SJ105220 (Reeled Product)		
MM60-52B1-G1	SJ110608 (Individual Product)	JACS-10706	
MM60-52B1-G1-R850	SJ110634 (Reeled Product)		
MM60-EZH039-B5	SJ105217 (Individual Product)	JACS-10313	
MM60-EZH039-B5-R850	SJ105218 (Reeled Product)		
MM60-EZH059-B5	SJ105221 (Individual Product)		
MM60-EZH059-B5-R650	SJ105222 (Reeled Product)		
NT1	SJ109548 (Individual Product)	-	-
NT1R3000	SJ109575 (Reeled Product)		
NT4	SJ110869 (Individual Product)	-	-
NT4R1600	SJ110870 (Reeled Product)		

Notice:

1. The values specified in this brochure are only for reference. The products and their 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.

2. Users 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.

3. The products presented in this brochure 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.

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