JAE

NEW

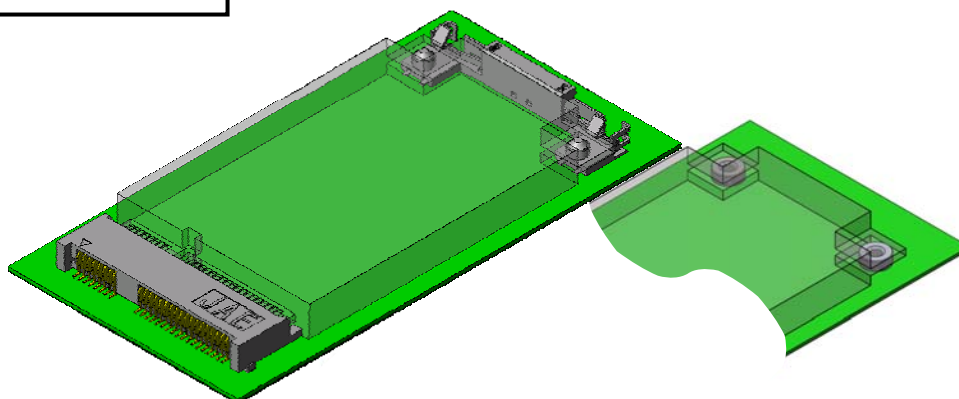## Compatible With PCI Express Mini Card
MM60 Series

RoHS Compliant

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

Features

■ Compatible with the PCI Express Mini Card Electromechanical spec and can be used for connecting with modules with PCI Express and USB transmission.

■ 76-contact socket is compatible with DMC (Display Mini Card).

■ 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.
  Packing form is embossed tape.

General Specifications

■ No. of Contacts: 52 pos., 76 pos.

■ Contact Resistance: 60mΩ max. (initial)

■ Dielectric Withstanding Voltage: AC 300Vr.m.s (per minute)

■ Operating Temperature: -40 to+85 Deg. C

■ Rated Current: 0.5A per pin

■ Durability: 50 mating cycles

■ 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	Material / Finish
Connector	
Contact	Copper alloy / Contact area: Au plating over Ni Terminal area: Au flash over Ni
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

Ordering Information

Connector

MM60 - 52 B 1 - E 1

- Series
- No. of Contacts
- Socket Type
- Key Type
- Height, Modification Code
- Contact Finish
  1: Au plating (0.1um)

Latch

MM60 - EZ H059 - B 5

- Series
- Latch Type
- Applicable Connector Height
- With boss
- 5: Sn plating

Combination

	Connector	Latch	Nut
Height 1	MM60-52B1-G1	MM60-EZH039-B5	NT1
	MM60-76B2-G1		
Height 2	MM60-52B1-E1	MM60-EZH059-B5	NT4
Height 3	MM60-52C2-R1	————	————

Connector: MM60-52B1-G1 (SJ110608)

Embossed Tape Product: MM60-52B1-G1-R850 (SJ110634)
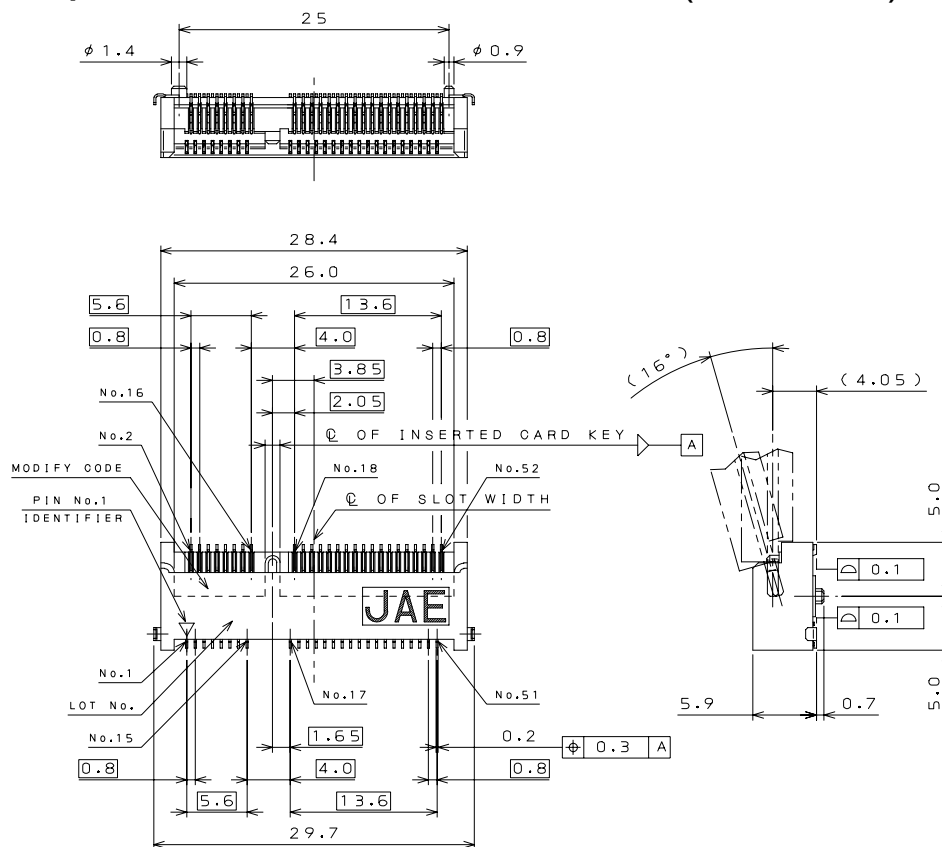

Latch: MM60-EZH039-B5 (SJ105217)
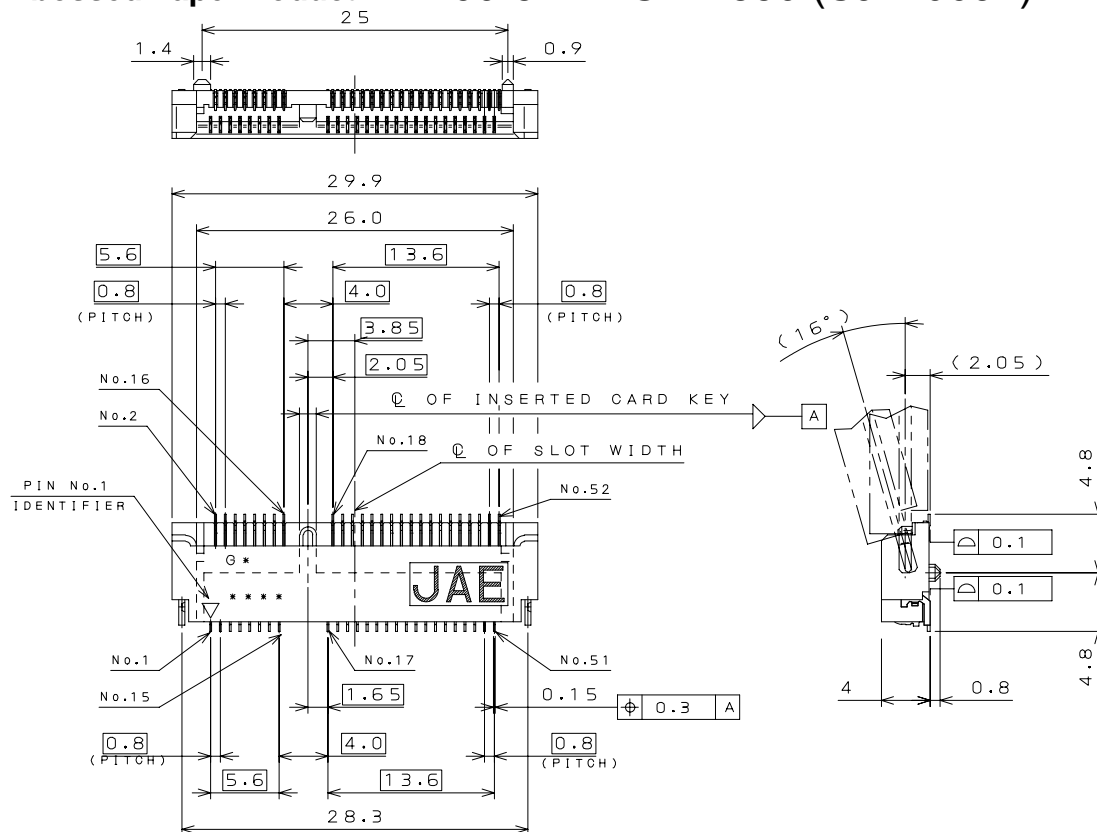
Embossed Tape Product: MM60-EZH039-B5-R850 (SJ105218)
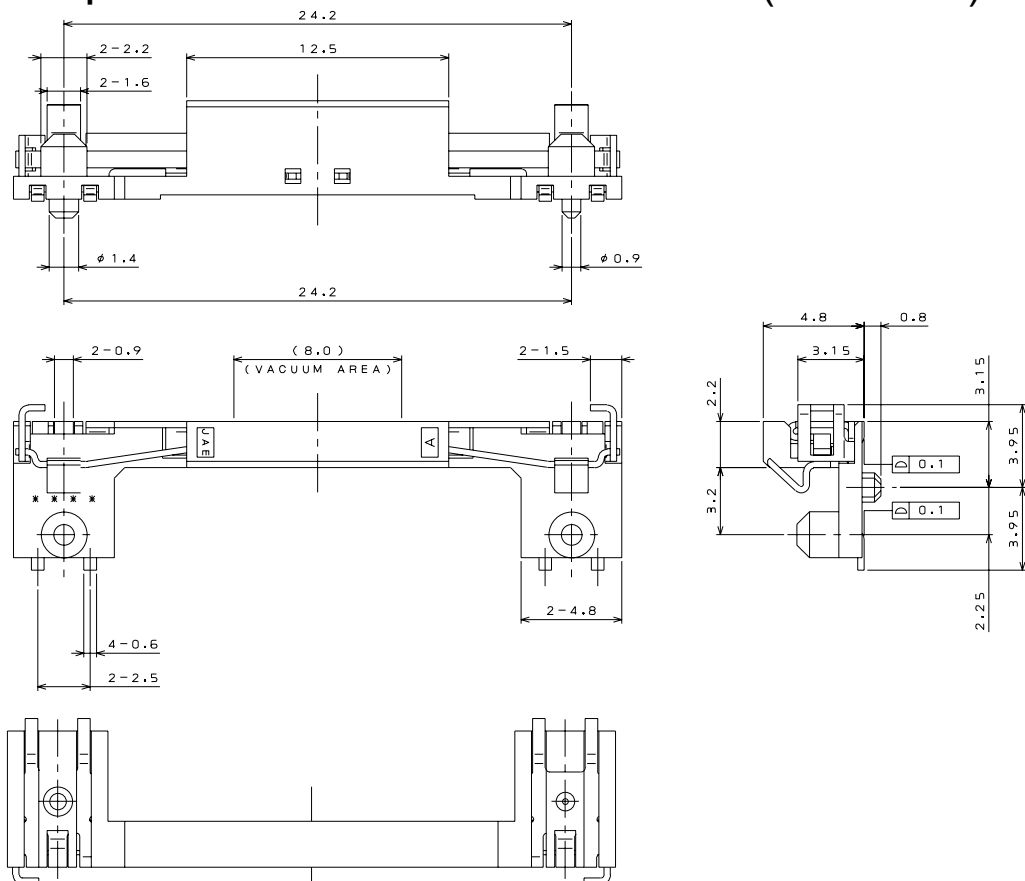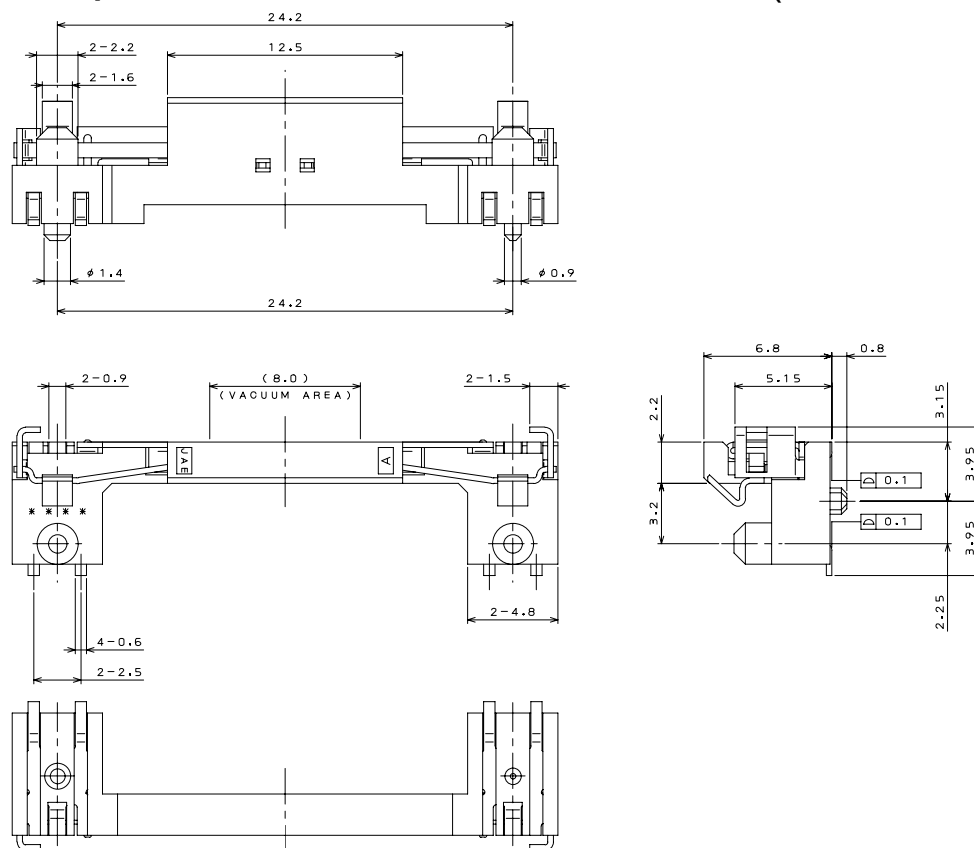
Connector: MM60-52B1-E1 (SJ105219)

Embossed Tape Product: MM60-52B1-E*-R650 (SJ105220)

Latch: MM60-EZH059-B5 (SJ105221)

Embossed Tape Product: MM60-EZH059-B5-R650 (SJ105222)

Connector: MM60-76B2-G1 (SJ110638)
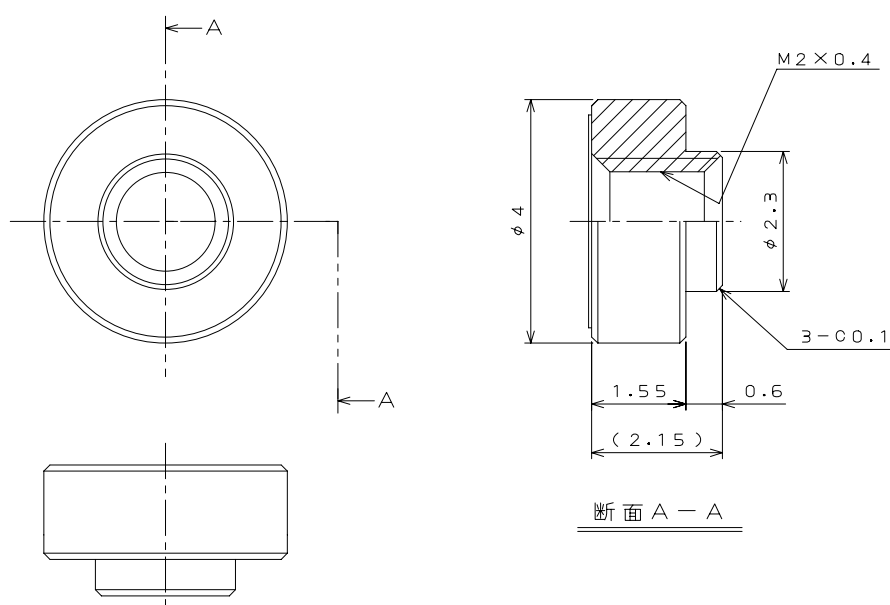
Embossed Tape Product: MM60-76B2-G1-R1000 (SJ110836)

Connector: MM60-52C2-R1 (SJ111356)

Embossed Tape Product: MM60-52C2-R1-R1200(SJ111357)

MOUNTING CONDITION(REF.)
実装状態図(参考)
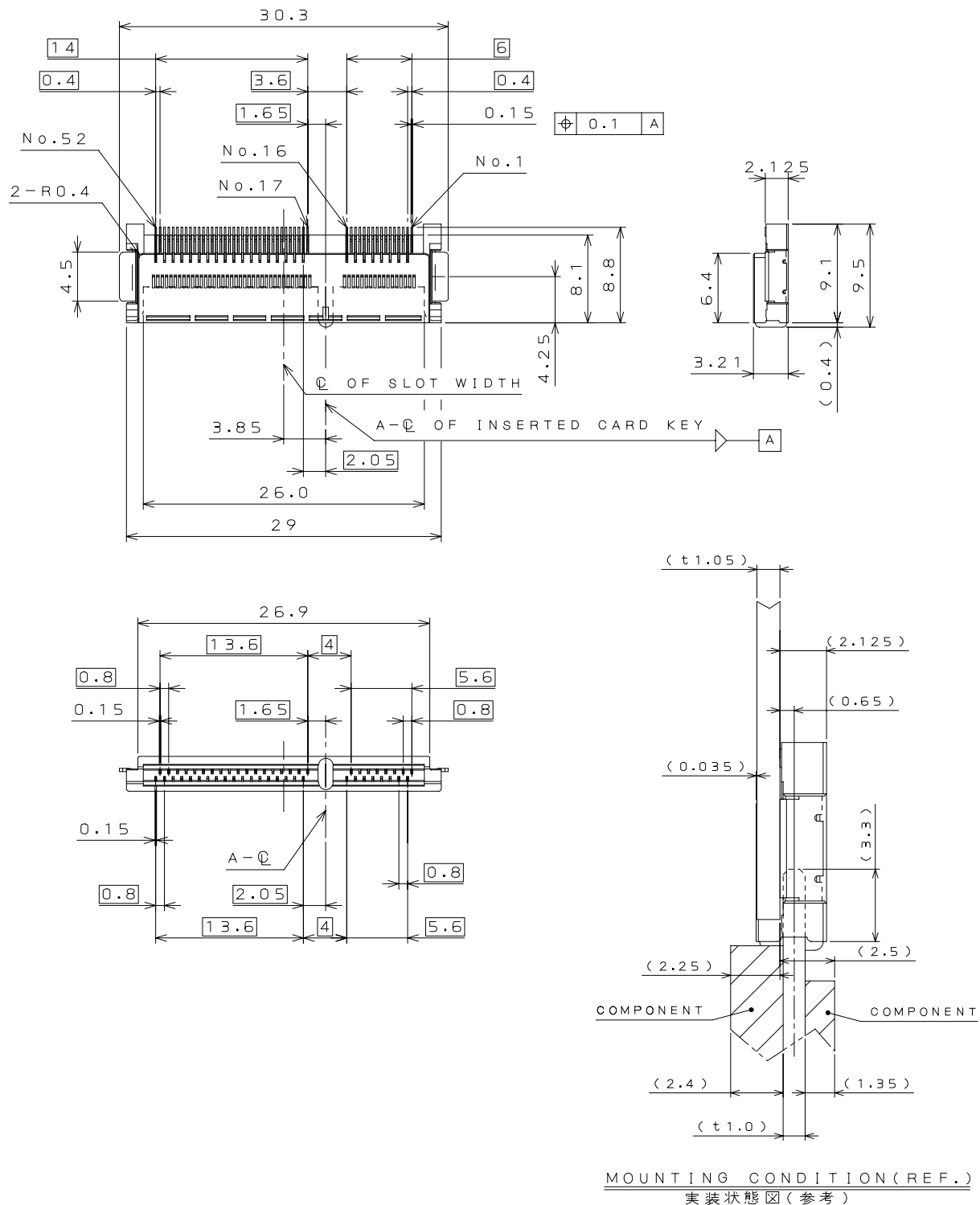
Latch: NT1 (SJ109548)
Embossed Tape Product: NT1R3000 (SJ109575)

M2×0.4

φ4   φ2.3

3-C0.1

1.55   0.6

(2.15)

断面A－A

Latch: NT4 (SJ110869)
Embossed Tape Product: NT4R1600 (SJ110870)

C0.1   M2×0.4   C0.1

φ4   φ2.3

C0.1

3.55   0.6

(4.15)

SECT. A－A

Applicable Module Dimensions (52 pos., for reference)

HATCHED AREAS ILLUSTRATE MAXMUM
AVAILABLE COMPONENT VOLUME.

COMPONENT AND ROUTING (ALL LAYERS,
TOP AND BOTTOM SIDE) KEEP OUT AREA
FOR LATCH SOLUTIONS. (NOTE 6)

COMPONENT AREA
(TOP SIDE)

COMPONENT AREA
(BOTTOM SIDE)

PIN 1

PIN 51

PIN 52

PIN 2

DATUM D

C OF CARD WIDTH

PIN NUMBERING REFERENCE :
ODD PINS — TOP SIDE
EVEN PINS — BOTTOM SIDE

(PITCH)
(BOTH SIDE)

{0.8×(18-1)} {0.8×(8-1)}
(BOTH SIDE)

DETAIL A

PIN 15

PIN 17

DATUM D

FULL R

DETAIL B

Board Mounting Dimensions (52 pos., for reference)
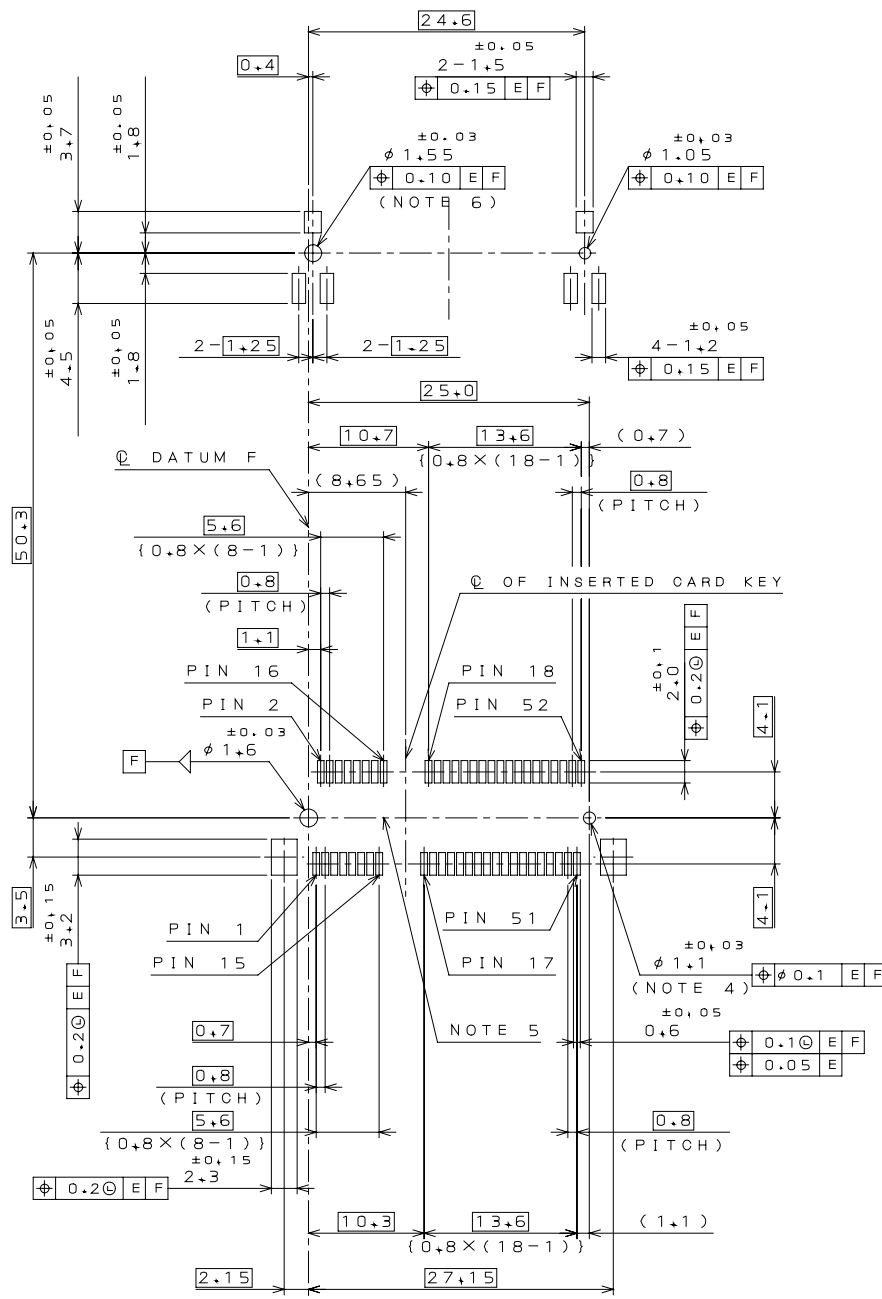
**Please refer to SJ drawing
 when considering this product

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Notice: Products shown in this brochure are made for the applications listed below. 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, Telecommunication devices (Terminals, Mobile devices), AV devices, Household applications, FA devices, etc.

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