

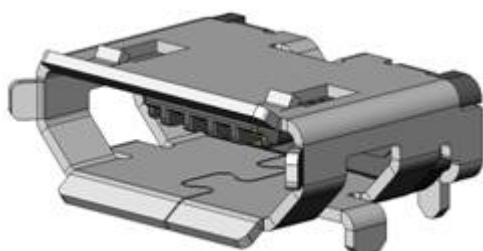


USB 2.0 Compatible Micro Connectors

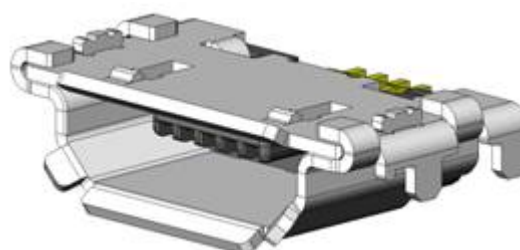
DX4 Series

CONNECTOR
MB-0187-3
December 2014

RoHS Compliant



On-board Type

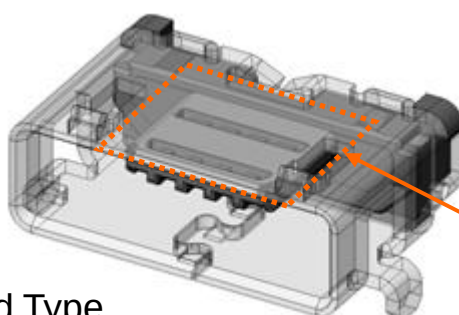


Mid-mount Type

The DX4 Series is a set of connectors compatible with the Micro-USB type USB 2.0 for small devices standardized by the USB Implementers Forum, Inc.

Features

- Compatible with Universal Serial Bus Micro-USB Cables and Connectors Specification, Revision 1.01.
- Connector type: USB 2.0 compatible, Micro types
- Au plating over Pd-Ni alloy is used for mating cycle durability and long product life.
- Superior rigidity with high-strength stainless steel shell.
- Available in a variety of versions to suit diverse device configurations.
- Two-piece shell structure for mid-mount type to prevent contact failure due to flux scattering during reflow.
- Available in reinforced type, with reinforcement plate set in mating area to prevent damage from plug caused by misaligned mating. (Refer to drawing below)



Reinforcement plate
of mating area

Mating Area Reinforced Type

*In the above drawing the shell is transparent for illustration purposes to show the reinforcement plate.

General Specifications

- | | |
|---|------------------------------------|
| ■No. of Contacts: 5 positions | ■Rated Current: DC1.8A (Vbus, GND) |
| ■Contact Resistance: | Others DC0.5A |
| 30m ohm max. (initial) | ■Rated Voltage: AC30Vrms |
| ■Dielectric Withstanding Voltage: | ■Durability: 10,000 mating cycles |
| AC500Vrms per minute | ■Operating temperature: |
| ■Insulation Resistance: 1000M ohm (initial) | -30 Deg. C to +80 Deg. C |

Materials and Finishes

Component	Material and Finish
Insulator	Synthetic Resin
Contact	Copper alloy / Contact area: Au flash plating over Pd-Ni alloy over Ni Terminal area: Au flash plating over Ni
Shell	Stainless Steel / Sn plating over Ni

*For more information please refer to individual product drawings.

Ordering Information

DX4 R 0 05 J J 2 R1800

Series

DX4: USB2.0 Micro

R: Receptacle

Modification Code: #1

No. of Contacts: 5 pos.

Reel: 1800 pcs. / reel

Modification Code: #2

Plating Specification

J: Contact area: Au flash over Pd-Ni alloy over Ni

Board Connection Type (Shell area)

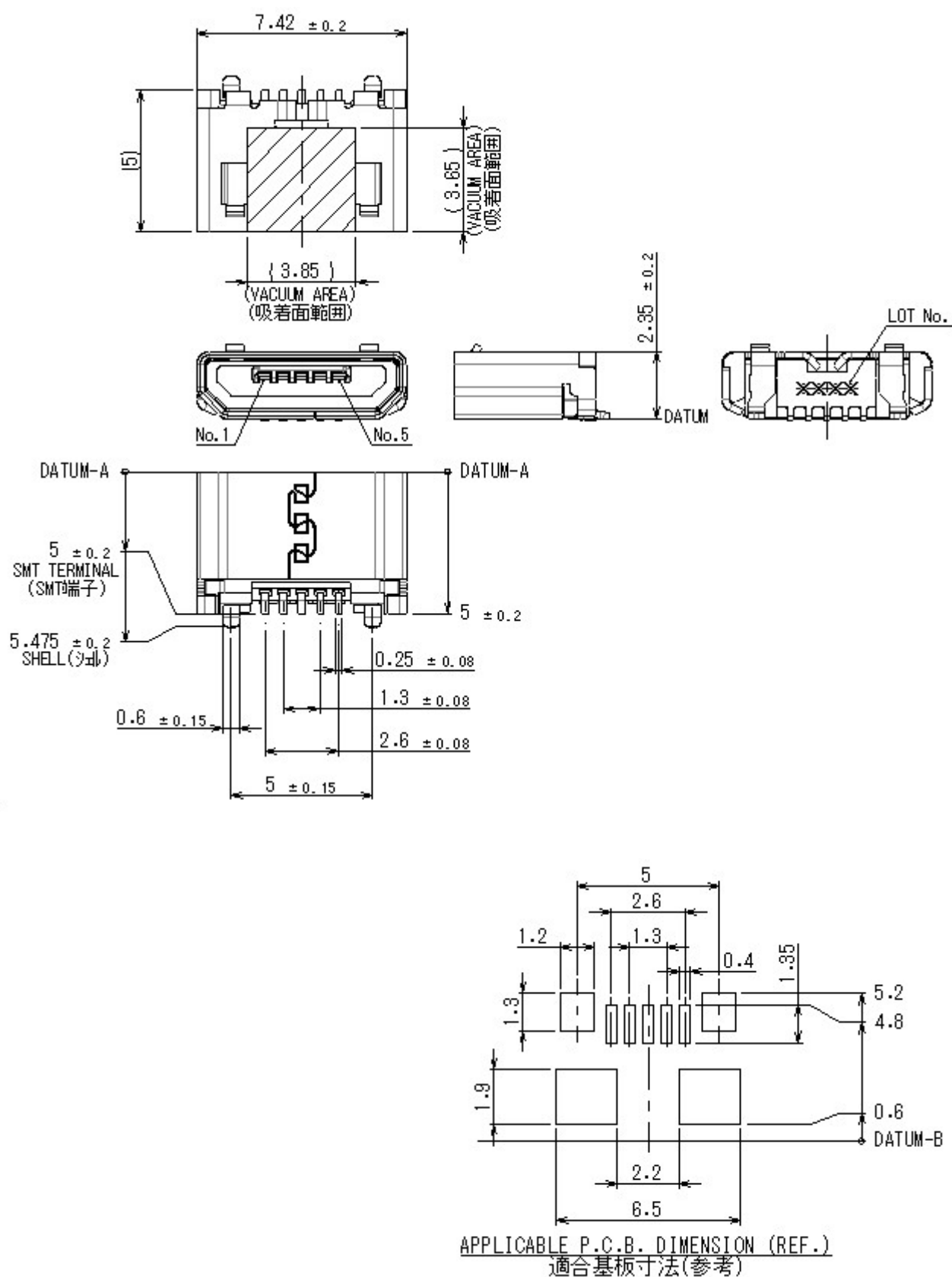
J: Through-hole type, H: Hold-down type

Micro-USB Connector Type	Part Number	SJ Drawing	Specification	Mounting Type		Mating Taper	Mating Area Reinforcement Plate	
Type B	DX4R005JJ2 (Individual Unit)	SJ110578	JACS-30162	On-board	Standard	Yes	No (Standard Type)	
	DX4R005JJ2R1800 (Reel Unit)	SJ110579				No		
	DX4R005HJ5 (Individual Unit)	SJ111770	JACS-30185	Yes				
	DX4R005HJ5R2000 (Reel Unit)	SJ111771		No				
	DX4R005JJ6 (Individual Unit)	SJ112420	Mid-mount	JACS-30251		Yes		
	DX4R005JJ6R1500 (Reel Unit)	SJ112421				No		
	DX4R005JJ7 (Individual Unit)	SJ112422				JACS-30252	No	
	DX4R005JJ7R1500 (Reel Unit)	SJ112423					No	
	DX4RN05JJ3 (Individual Unit)	SJ112800	JACS-30257	No				
	DX4RN05JJ3R2000 (Reel Unit)	SJ112801						
Type AB	DX4R105JJC (Individual Unit)	SJ113218	JACS-30281	On-board	Reverse		Yes	Yes (Mating Area Reinforced Type)
	DX4R105JJCR1800 (Reel Unit)	SJ113219			Standard		No	
	DX4R205JJA (Individual Unit)	SJ112925	JACS-30267	Reverse	Yes			
	DX4R205JJAR1800 (Reel Unit)	SJ112926		Standard	No			
	DX4R305JJB (Individual Unit)	SJ112927	JACS-30268	Mid-mount	Standard	Yes		
	DX4R305JJBR1800 (Reel Unit)	SJ112928				No		
	DX4R205JJ8 (Individual Unit)	SJ112802	JACS-30258	Mid-mount	Standard	Yes		
	DX4R205JJ8R2000 (Reel Unit)	SJ112803				No		
	DX4R205JJ9 (Individual Unit)	SJ112804	JACS-30259			Yes		
	DX4R205JJ9R2000 (Reel Unit)	SJ112805				No		

Note: Please place orders in reel units.

Standard Type (Micro-B): DX4R005HJ5

Unit: mm

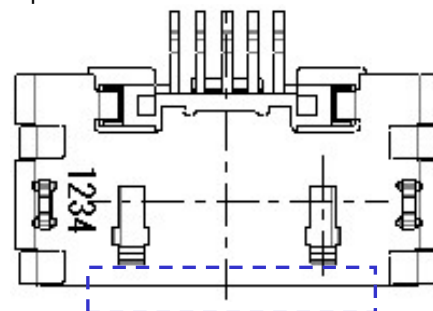
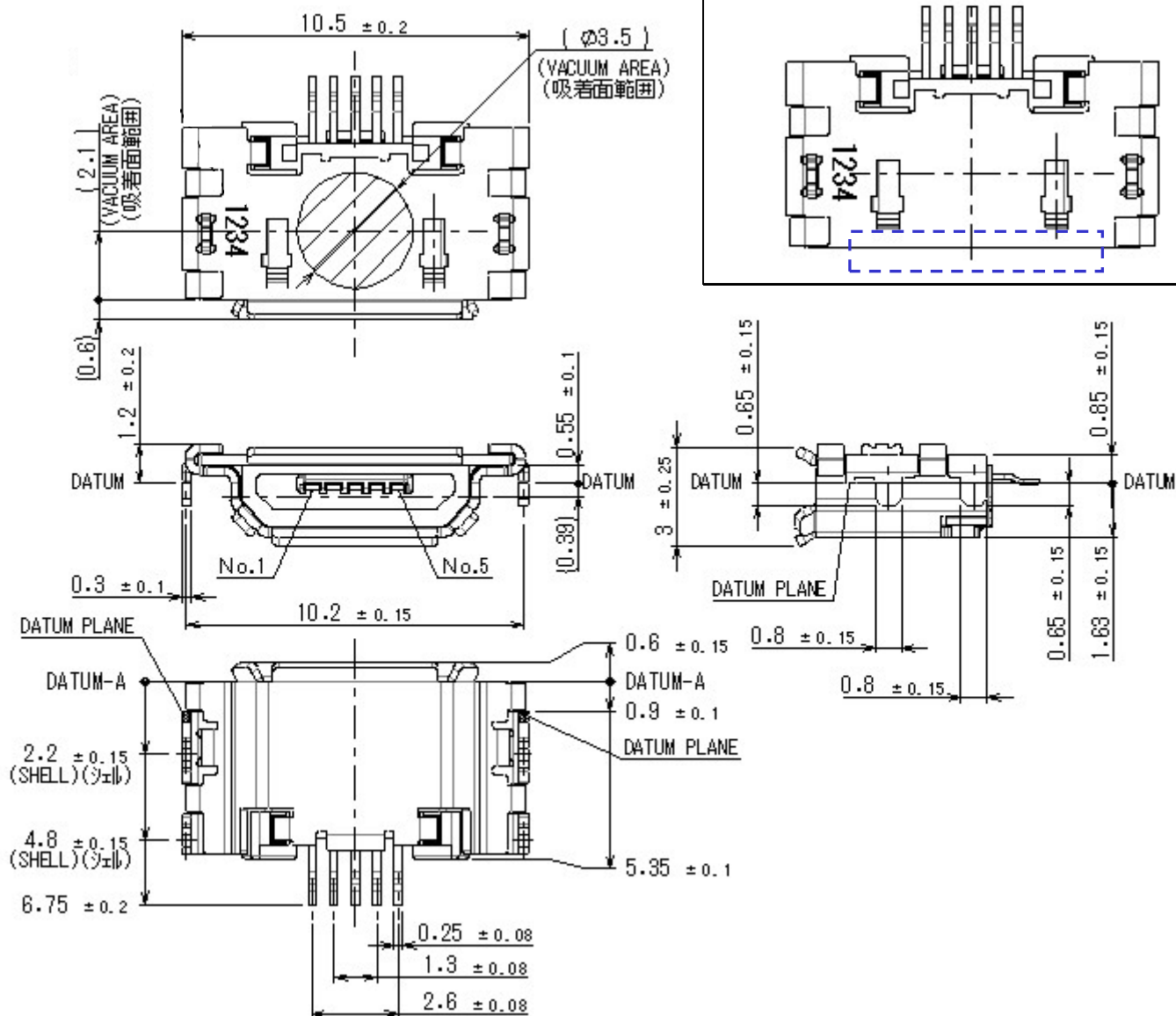
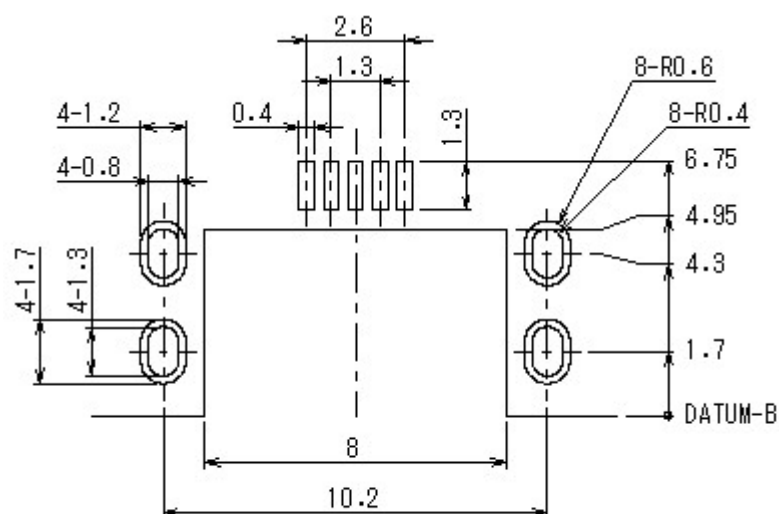


Standard Type (Micro-B): DX4R005JJ6

Unit: mm

Type without mating area taper (DX4R005JJ7)

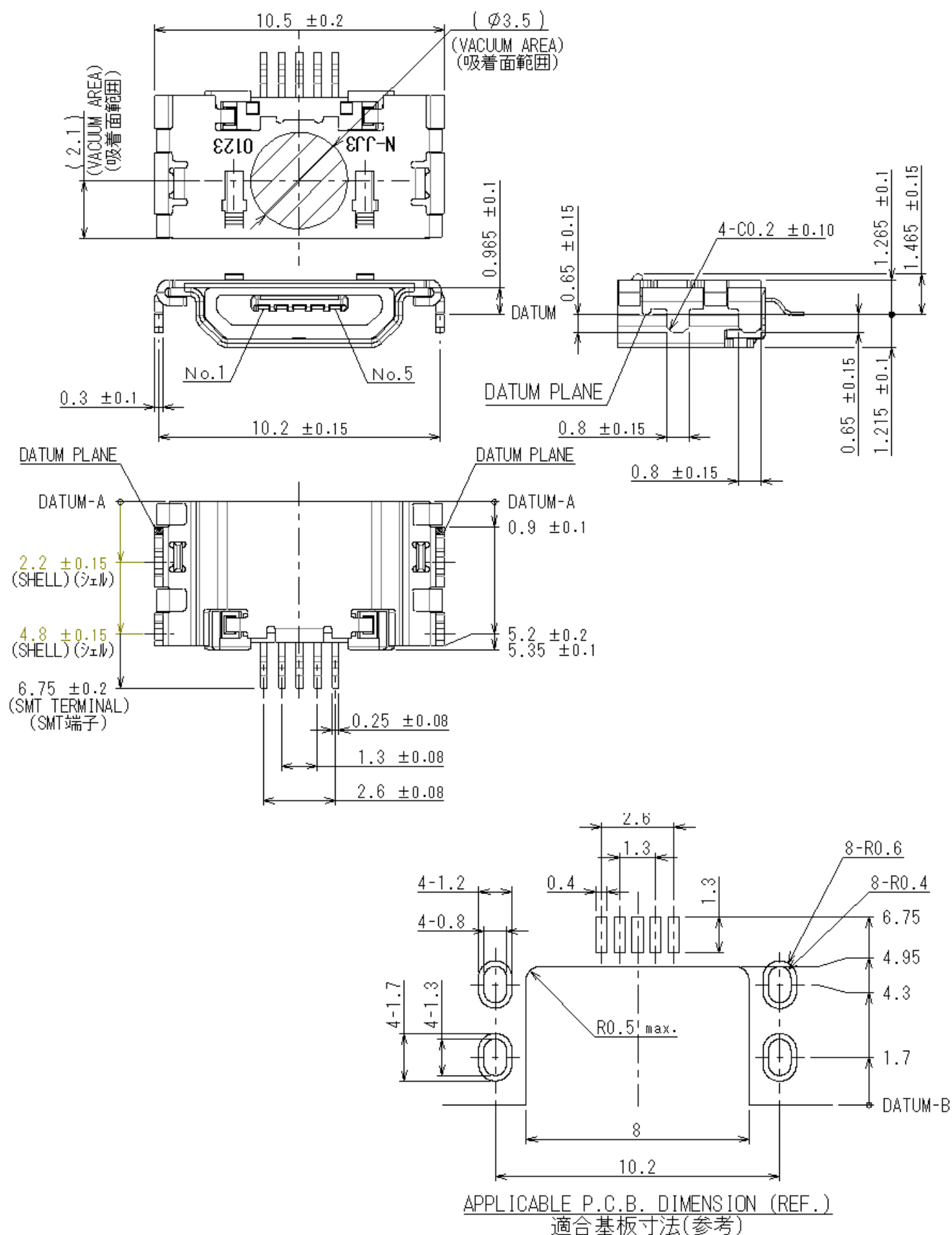
*Design is same as DX4R005JJ6 except the mating area taper.



APPLICABLE P.C.B. DIMENSION (REF.)
適合基板寸法(参考)

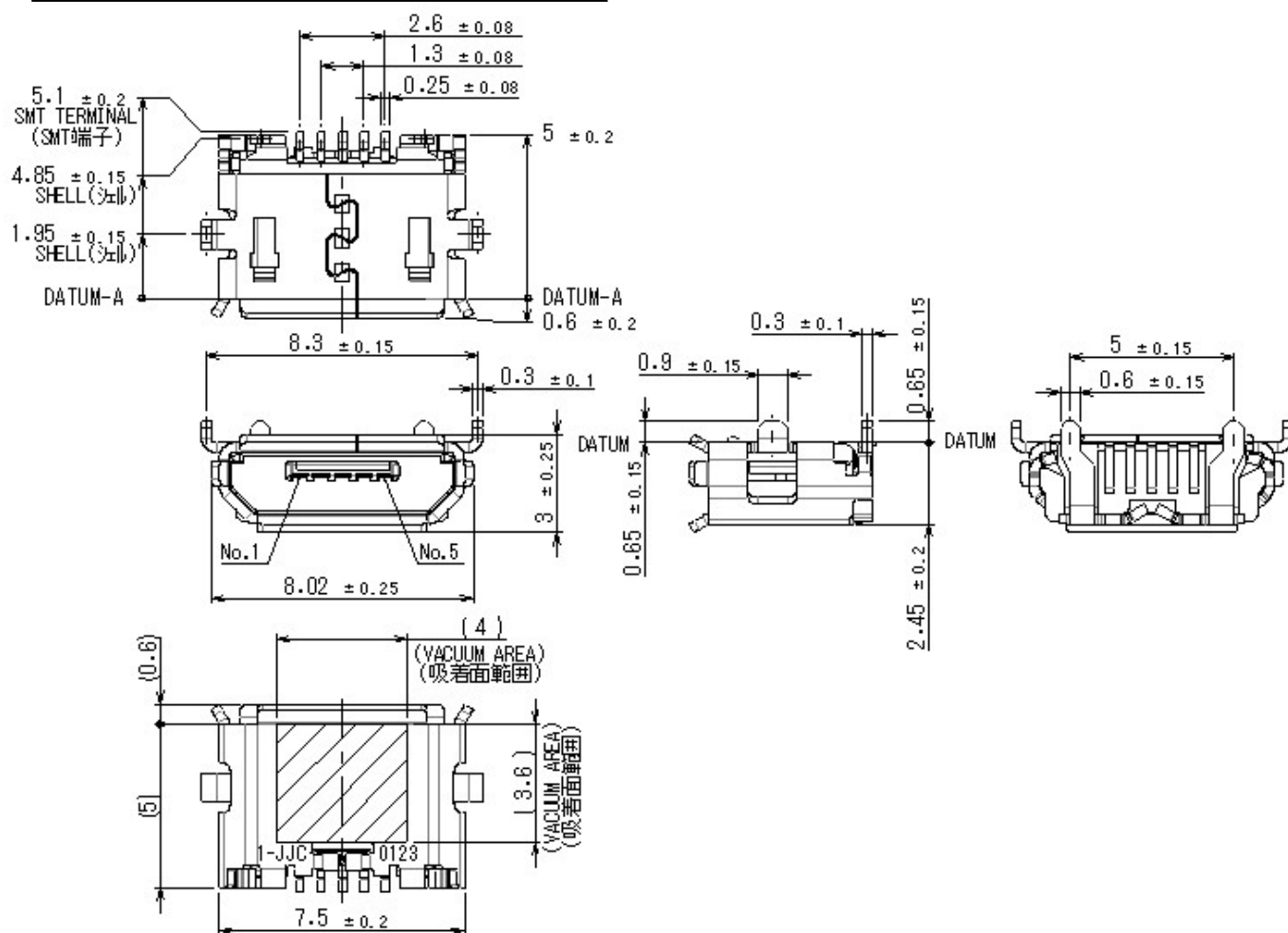
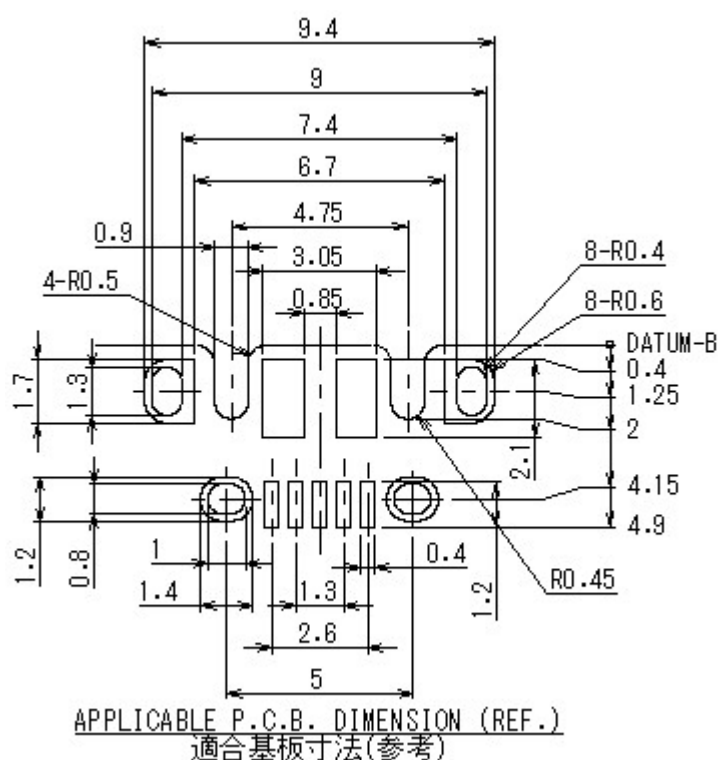
Mating Area Reinforced Type (Micro-B): DX4RN05JJ3

Unit: mm



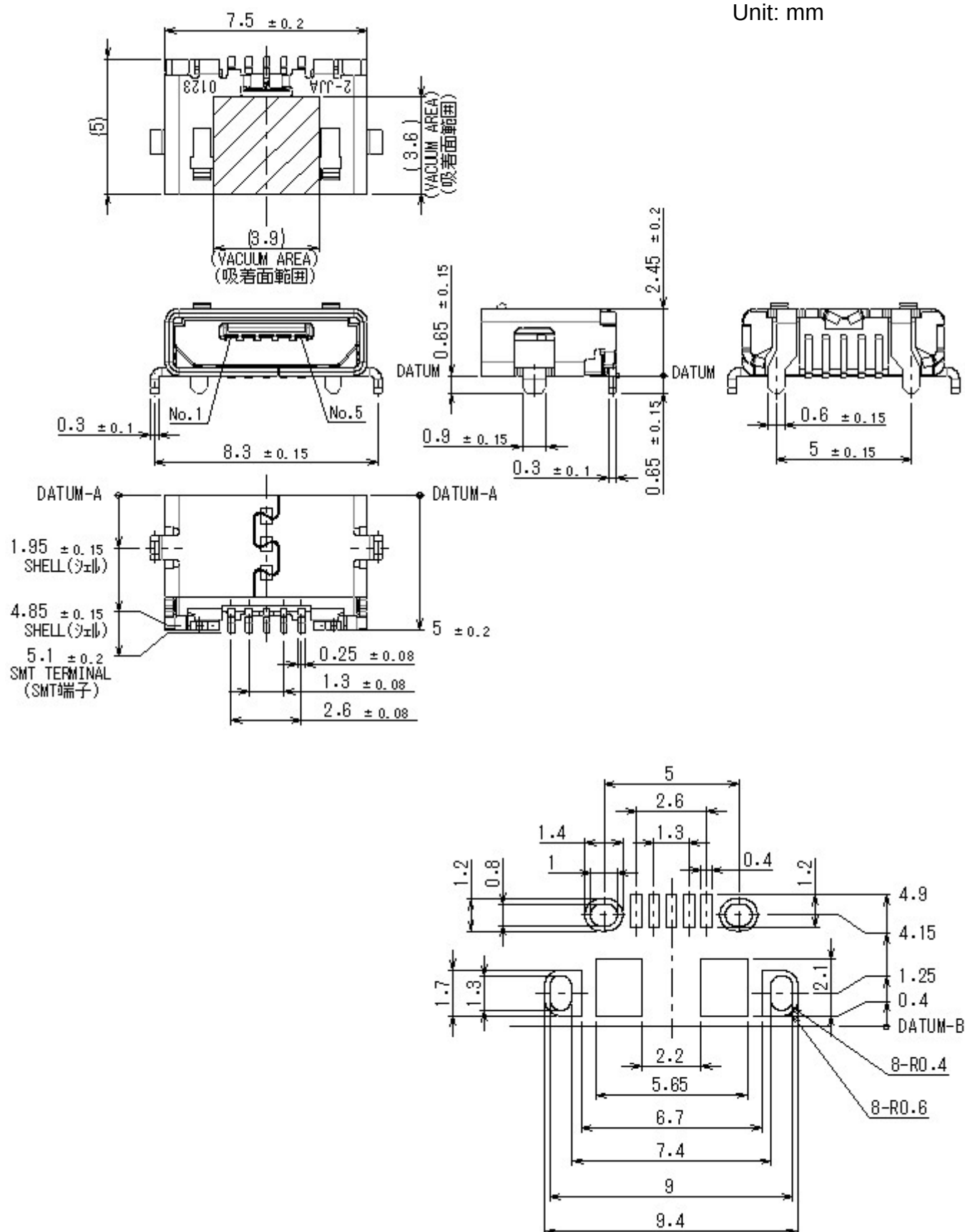
Mating Area Reinforced Type (Micro-B): DX4R105JJC

Unit: mm



Mating Area Reinforced Type (Micro-AB): DX4R205JJA

Unit: mm



APPLICABLE P.C.B. DIMENSION (REF.)
適合基板寸法(参考)

Unit: mm

Top View Dimensions:

- Overall width: 2.6 ± 0.08
- Distance from center to side terminal: 1.3 ± 0.08
- Terminal pitch: 0.25 ± 0.08
- Terminal height: 5.1 ± 0.2
- Terminal width: 4.85 ± 0.15
- Terminal thickness: 1.95 ± 0.15
- DATUM-A

Side View Dimensions:

- Overall height: 5 ± 0.2
- Distance from center to side terminal: 8.3 ± 0.15
- Terminal width: 0.3 ± 0.1
- Terminal height: 0.9 ± 0.15
- DATUM

Front View Dimensions:

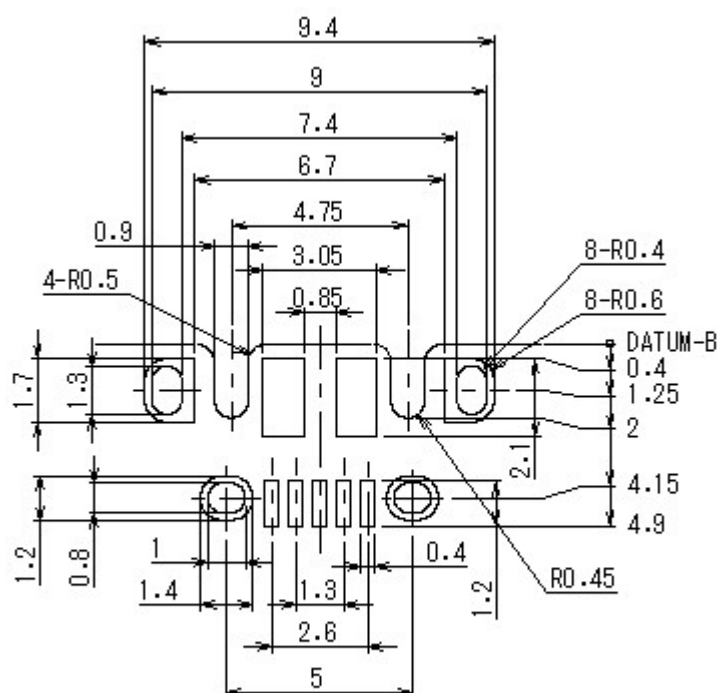
- Overall width: 5 ± 0.15
- Terminal width: 0.6 ± 0.15
- Terminal height: 0.3 ± 0.1
- Terminal thickness: 0.85 ± 0.15
- Overall height: 2.45 ± 0.2
- DATUM

Other Dimensions:

- Distance from center to side terminal: 0.3 ± 0.1
- Distance from center to side terminal: 0.9 ± 0.15
- Distance from center to side terminal: 0.85 ± 0.15
- Distance from center to side terminal: 2.45 ± 0.2
- Distance from center to side terminal: 0.3 ± 0.1
- Distance from center to side terminal: 0.9 ± 0.15
- Distance from center to side terminal: 0.85 ± 0.15
- Distance from center to side terminal: 2.45 ± 0.2

Notes:

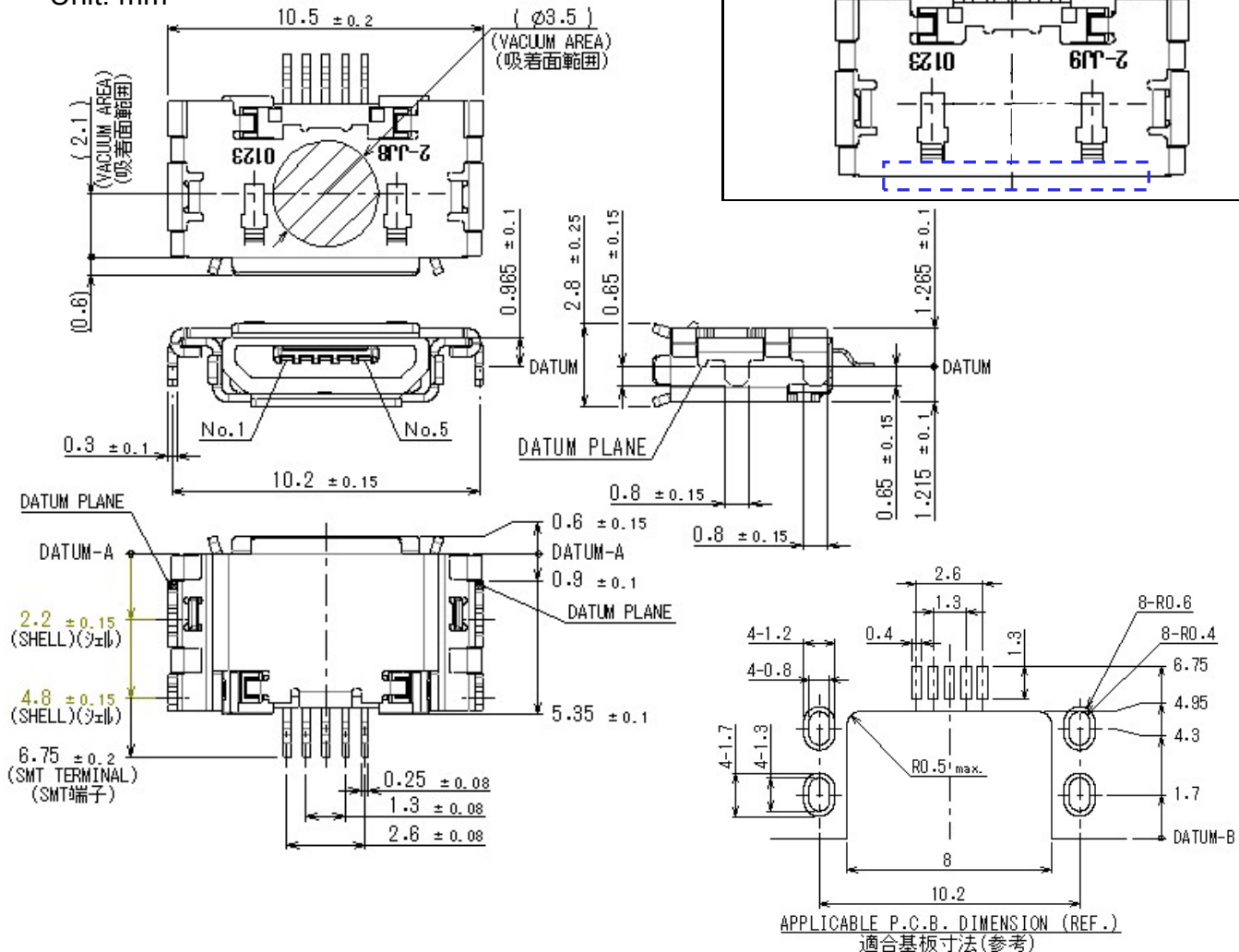
- (4) (VACUUM AREA) (吸着面範囲)
- (3.6) (VACUUM AREA) (吸着面範囲)
- 3-JJB
- 0123



APPLICABLE P.C.B. DIMENSION (REF.)
適合基板寸法(参考)

Mating Area Reinforced Type (Micro-AB): DX4R205JJ8

Unit: mm



Type without mating area taper (DX4R205JJ9)
*Design is same as DX4R205JJ8 except the mating area taper.

Notice:

- 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.
- 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.
- 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.
 - Applications that require consultation:
 - 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.
 - 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.
 - 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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