



Part Number  
Key Word



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CONNECTOR SEARCH

CATALOG





SAMPLE

STOCK CHECK

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## Product List

Product Name	<b>AA03-S030VA1-R6000</b>
Series Name	AA03 Series
Contact spacing (mm)	0.4
Number of positions	30
Plug/Receptacle	Receptacle
Surface mounting flag	TRUE
PCB orientation	Vertical
Material of contact	Copper alloy
Finish of contact in connecting area	Gold over Nickel
Finish of contact in PCB mounting area	Gold over Nickel
Material of insulator	Heat resisting plastics (UL94V-0, Black)
PCB boardlock feature	Hold-down

Packing Type	Embossed tape packaging
Quantity in the standard packing	6000
Remarks	
Related Documents	 312Kbytes  166Kbytes  152Kbytes 
Pair	AA03-P030VA2-R6000 AA03-P030VAE-R300

## Notice:

1. The values specified in this web site 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 web site 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:

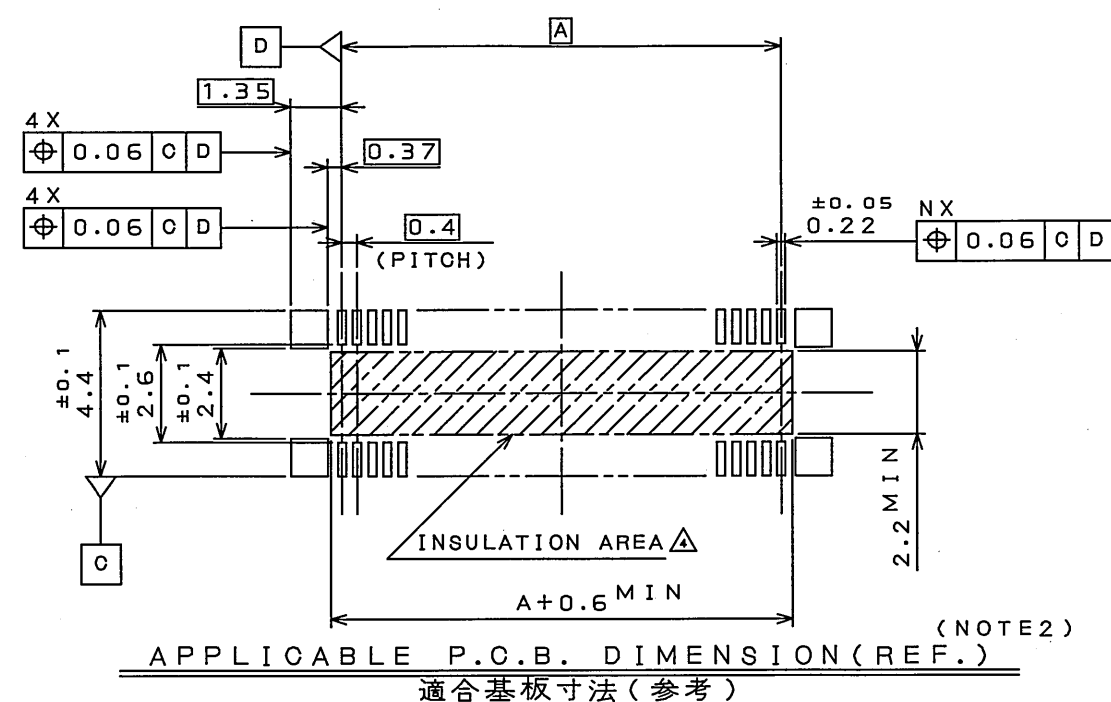
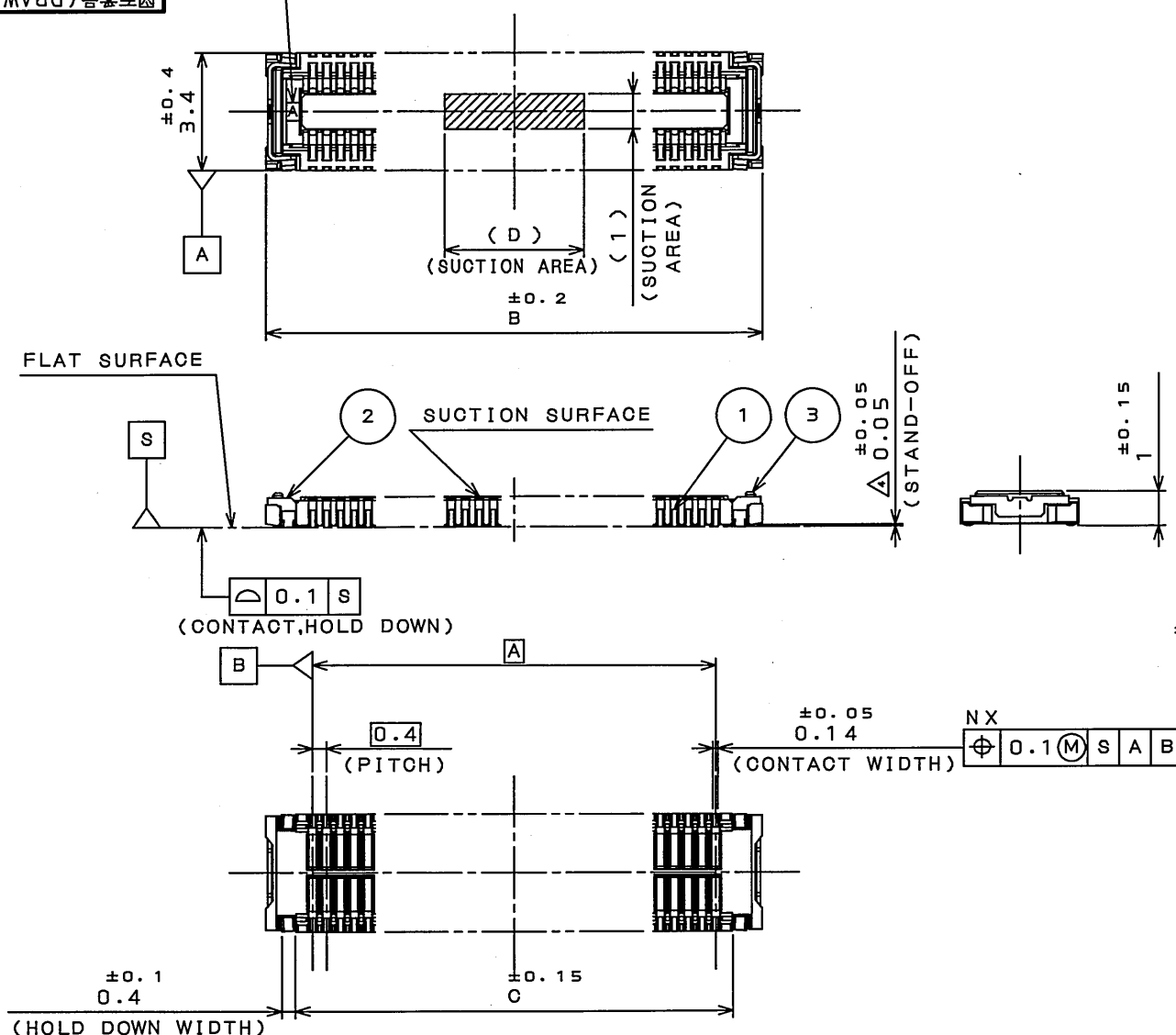
- (i) Please contact us if you are considering use involving a quality assurance program that you specify or that is peculiar to the industry, such as:  
Automotive electrical components, train control, telecommunications devices (mainline), traffic light control, electric power, combustion control, fire prevention or security systems, disaster evention 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

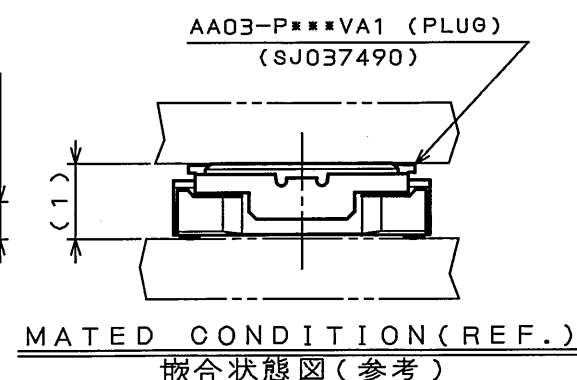
NOTE 1



版 数 REV.	年月日 DATE	DCN NO.	変 更 内 容 DESCRIPTION	製 図 DR.	担 当 CHK.	査 閲 APPD.	承 認 APPD.
2	17.Mar.2003	51720	ADDED ITEM, CORRECTED ERROR	——	T.ISHIKAWA	——	O.HASHIOUCHI
3	16.Apr.2003	51925	CHAGED ITEM	——	T.ISHIKAWA	——	O.HASHIOUCHI
4	25.Nov.2003	053824	ADDED ITEM,ETC	——	T.ISHIKAWA	——	O.HASHIOUCHI
5	25.Nov.2004	055976	ADDED ITEM,ETC	——	S.NAKAJIMA	T.ISHIKAWA	O.HASHIOUCHI
6	26.Jan.2005	056648	ADDED ITEM	——	S.NAKAJIMA	T.ISHIKAWA	O.HASHIOUCHI
7	16.Jan.2006	058925	ADDED ITEM	——	S.NAKAJIMA	T. Ishikawa	O. Hashiouchi

TABLE 1

	名称 (TITLE)	A	B	C	D
A	AA03-S020VA1	3.6	6.3	4.6	2.0
	AA03-S022VA1	4.0	6.7	5.0	2.0
B	AA03-S024VA1	4.4	7.1	5.4	2.0
A	AA03-S030VA1	5.6	8.3	6.6	2.0
	AA03-S036VA1	6.8	9.5	7.8	2.0
	AA03-S040VA1	7.6	10.3	8.6	2.0
A	AA03-S050VA1	9.6	12.3	10.6	2.0
B	AA03-S064VA1	12.4	15.1	13.4	4.0
A	AA03-S070VA1	13.6	16.3	14.6	4.0
A	AA03-S080VA1	15.6	18.3	16.6	4.0



## DESIGNATION

### 命名法

SERIES  
シリーズ

CONNECTOR FORM S: RECEPTACLE  
コネクタ形状 S: レセプタクル

AA03-S\*\*\*VA1

MODIFY CODE  
モディファイコード

CONTACT FINISH A:GOLD PLATING(0.1 $\mu$ m MIN)  
コンタクト仕上げ A:金0.1 $\mu$ m以上

NUMBER OF CONTACTS  
芯数

V:SMT, STRAIGHT TYPE, WITH HOLD DOWN  
V:SMT,ストレートタイプ,ホールドダウン有り

△NOTE 1.CAVITY MARK IS MARKED.

2.THE DRAWING SJO38323 SHOWS THE VIA-HOLE ARRANGEMENT  
LOCATED INSIDE OF THE CONNECTOR FOR REFERENCE.

△注1. キャビティマークを表示する。

2. 参考として、コネクタの内側にビアを構成する場合の例をSJ038323に示す。

3	INSULATOR インシュレータ	1	HEAT RESISTING PLASTICS 耐熱プラスチック	_____	UL94V-0 COLOR:BLACK 色相:黒
2	HOLD DOWN ホルドダウン	2	COPPER ALLOY 銅合金	TIN PLATING Snめっき	_____
1	CONTACT コンタクト	N	COPPER ALLOY 銅合金	GOLD(0.1μm MIN)OVER NICKEL Ni上Au 0.1μm以上	_____
符号 NO.	名称 DESCRIPTION	個数 QTY.	材料 MATERIAL	仕上 FINISH	備考 REMARKS
仕様書 (SPECIFICATION) JACS-1740		第1版 (ORIGINAL DATE) 14.Feb.2003		尺度 (SCALE) 5:1	シリーズ (SERIES) AA03
一般差 (GENERAL TOLERANCE)		製図 DR.	名称 (TITLE) AA03 -S***VA1 (RECEPTACLE)		
寸法 (DIMENSION)		担当 CHK.	質量 (MASS)		
角度 (ANGLES)		査閲 APPD.	図面番号 (DRAWING NO.)		
. ±0.8		承認 APPD.	SJ037492		
.X ±0.4					
.XX ±0.1					
.XXX ±					



0.4mm Pitch Stacking Type Board to Board Connector

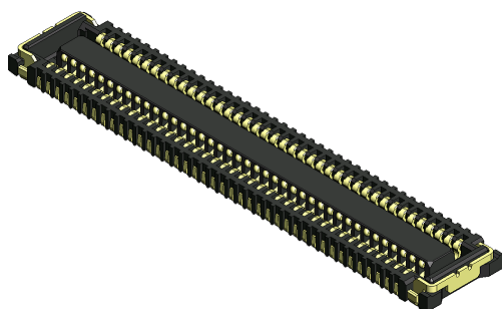
CONNECTOR

MB-0109-3

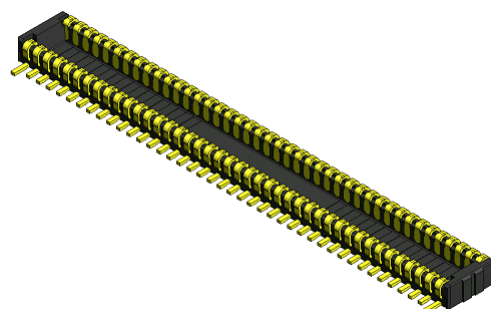
July 2007

## AA03 Series

<b>RoHS Compliant</b>
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Receptacle



Pin

### Outline

The AA03 Series connectors are 0.4mm-pitch, stacking type, board-to-board connectors ideal for slim low-profiled information communication devices such as mobile phones, LCDs and PDAs, with high density mounting requirements.

<b>Features</b>
-----------------

- \* 0.4mm pitch; double lines; 20 to 80 positions; stacking height: 1.0mm
- \* Separate 2-point contact design to resist twisting stress.
- \* Contact structure with high abrasion resistance and roll contacts with contact reliability.
- \* Secure hold-down prevents insulator breakage or lift-off from FPC (receptacle side).
- \* Nickel barrier on contact of the plug and receptacle prevents solder migration
- \* Pb-free
- \* Connectors for inspection jigs are provided for both plug and receptacle (Note 1)

<b>General Specifications</b>
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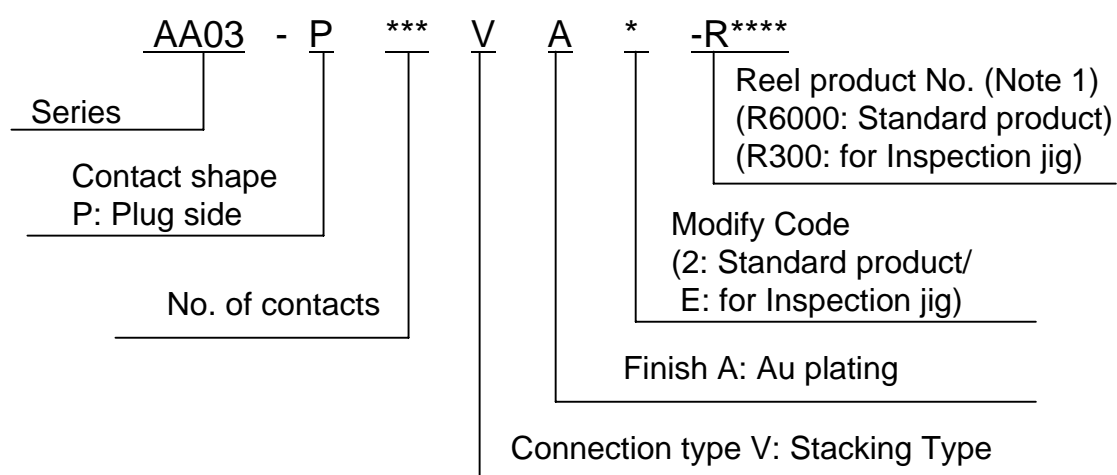
- |  |   |
|--|---|
| <ul style="list-style-type: none"> <li>■ No. of contacts :<br/>20, 22, 24, 30, 36, 40, 50, 64, 70, 80 pos.</li> <li>■ Pitch: 0.4mm, 2 rows</li> <li>■ Operating temperature:<br/>-45 Deg. C to +85 Deg. C</li> <li>■ Contact resistance:<br/>70m ohm max. (initial)</li> <li>■ Lifetime: 50 times</li> </ul> | <ul style="list-style-type: none"> <li>■ Rated current: AC, DC 0.4A/per pos.</li> <li>■ Rated voltage: AC, DC 50V</li> <li>■ Insulation resistance: 100M ohm min. (initial)</li> <li>■ Dielectric withstanding voltage:<br/>AC250Vr.m.s per minute</li> <li>■ Total insertion force:<br/>1N x n max.(n: pos.)</li> <li>■ Total withdrawal force:<br/>0.15Nx n min. (n: pos.)</li> </ul> |
|--|---|

(Note 1) Please contact us for connector used for inspection jigs.

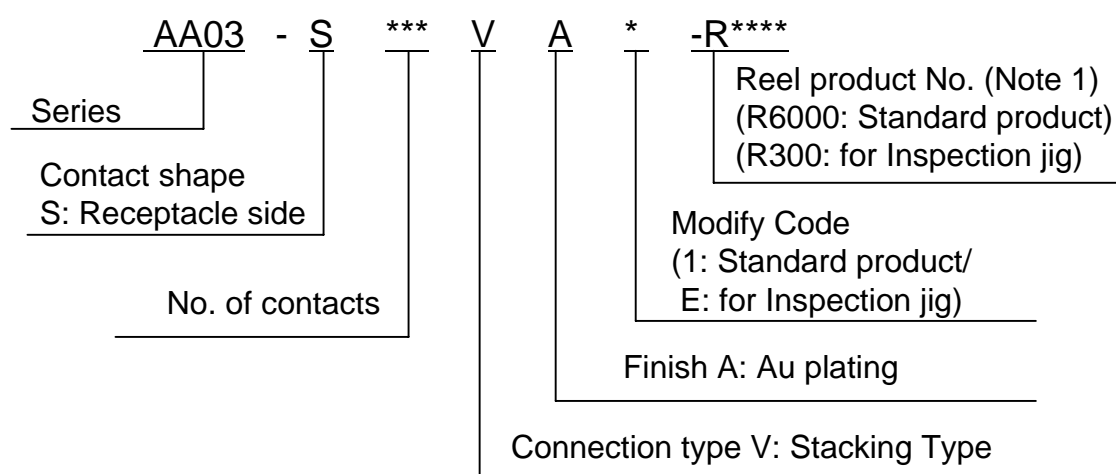
## Materials and Finishes

Components	Materials/Finishes
Contact	Copper alloy/ Au plating( 0.1um min.)
Insulator	Heat resistant plastic (UL94V-0, Color: Black)
Hold-down	Plug: Copper alloy/ Au plating(0.1 um min.) Receptacle: Copper alloy/ Sn plating

## Ordering Information



## Ordering Information



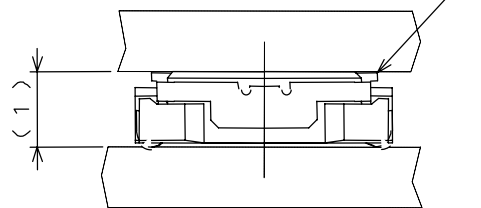
(Note 1) Both standard products (6,000 pcs./reel) and those for inspection jig (300 pcs./reel) are supplied on emboss tape.

For information on emboss taping specifications, please contact us directly.

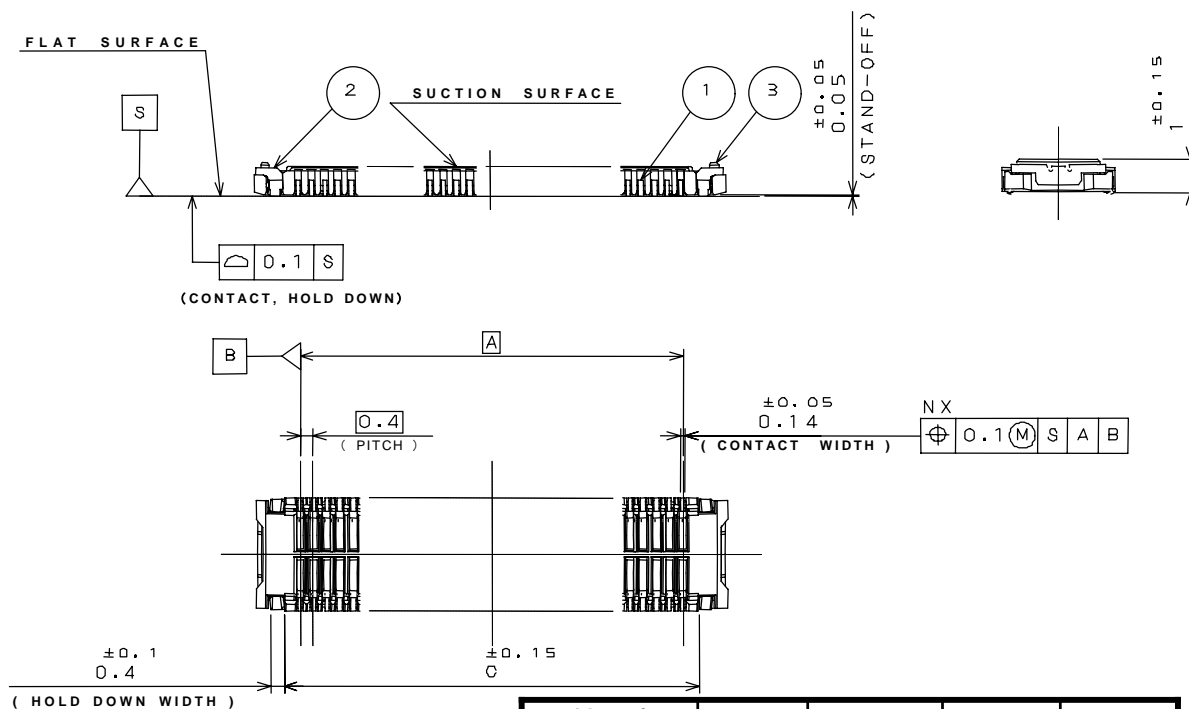
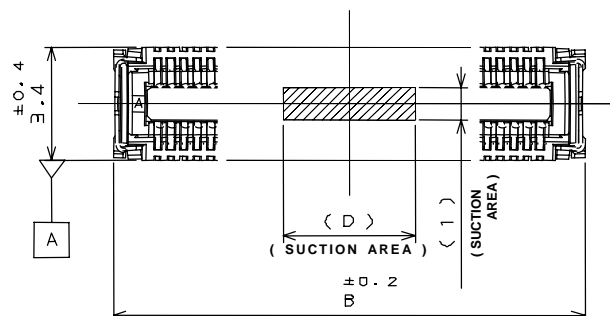
<b>Part Number</b>	<b>AA03-S***VA1</b>
<b>SJ Drawing</b>	<b>SJ037492</b>

AA03-P\*\*\*VA2 (PLUG)

(SJ101604)

**MATED CONDITION (REF.)**

嵌合状態図(参考)

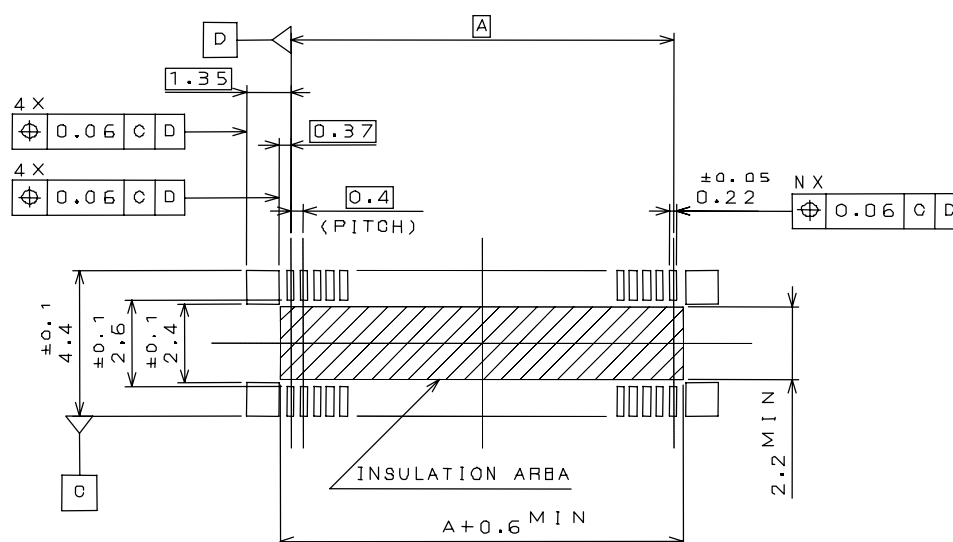


Note 1) Coplanarity 0.1 mm max.

Note 2) An embossed tape reel contains  
6000 pieces.Please contact us for details of embossed tape  
specifications

No. of contacts	A	B	C	D
20	3.6	6.3	4.6	2.0
22	4.0	6.7	5.0	2.0
24	4.4	7.1	5.4	2.0
30	5.6	8.3	6.6	2.0
36	6.8	9.5	7.8	2.0
40	7.6	10.3	8.6	2.0
50	9.6	12.3	10.6	2.0
64	12.4	15.1	13.4	4.0
70	13.6	16.3	14.6	4.0
80	15.6	18.3	16.6	4.0

<b>Part Number</b>	<b>AA03-S***VA1</b>
<b>SJ Drawing</b>	<b>SJ037492</b>



Applicable dimension of board  
(for reference)



Specifications	Products	No.
Product Drawing	(Standard product) Plug	SJ101604
	(Standard product) Receptacle	SJ037492
	(For Inspection jig) Plug	SJ100167
	(For Inspection jig) Receptacle	SJ100169
	(Applicable board via Configuration example) Plug side	SJ100541
	(Applicable board via Configuration example) Receptacle side	SJ038323
Product Specifications		JACS-1740-8
Handling Information		JAHL-1740
Evaluation Test Report		SR-C-0631

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**Notice:** Products shown in this leaflet 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.