



0.4mm Pitch, Stacking Type
Board-to-Board Connector

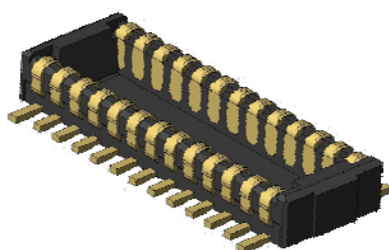
WP3 Series

CONNECTOR

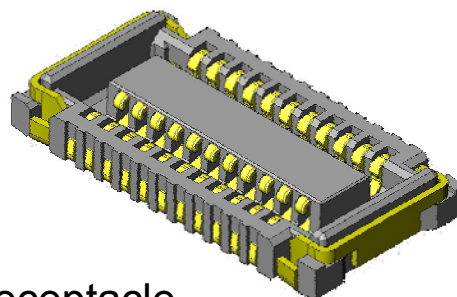
MB-0229-1

September 2011

RoHS Compliant



Plug



Receptacle

The WP3 Series is a low-profile board-to-board (FPC) connector with 0.4mm pitch spacing that is ideal for high-density mounting in slim information communication devices like mobile phones, smartphones, and notebook PCs.

Features

- 16 to 80 pos., 0.4mm pitch, 2 rows, 1.0mm stacking height.
- Independent 2-point contact design to resist twisting stress.
- Contact structure ensures high wear-resistance and high contact reliability.
- Secure hold-downs prevent insulator breakage and peeling from FPC (receptacle side).
- Ni barrier on contact of both plug and receptacle prevents solder wicking.
- Pb-free.

* Inspection jig connector for both plug and receptacle are available. (Note 1)

General Specifications

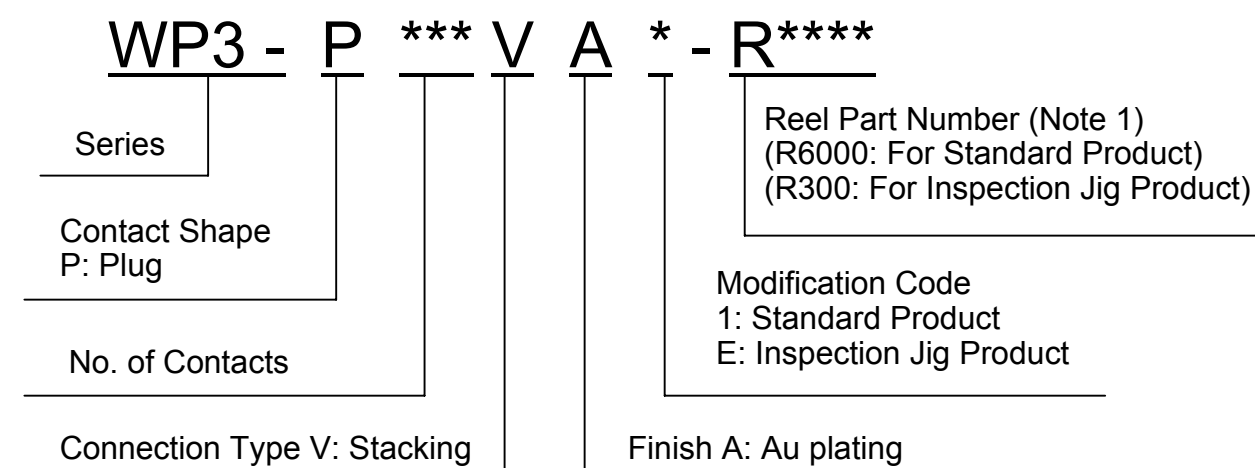
- | | |
|--|---|
| <p>■No. of Contacts:
16, 20, 22, 24, 30, 36, 40, 42,
50, 64, 70, 80 pos.</p> | <p>■Rated Current:
AC, DC 0.4A each per terminal</p> |
| <p>■Pitch: 0.4mm, 2 rows</p> | <p>■Rated Voltage: AC, DC 50V</p> |
| <p>■Operating Temperature:
-45 Deg. C to +85 Deg. C</p> | <p>■Insulation Resistance: 100MΩ min. (initial)</p> |
| <p>■Contact Resistance:
70mΩ max (initial)</p> | <p>■Dielectric Withstanding Voltage:
AC250Vr.m.s per minute</p> |
| <p>■Life Time: 50 mating cycles</p> | <p>■Total Insertion Force:
1N x n max. (n: No. of pos.)</p> |
| | <p>■Total Extraction Force:
0.15N x n min. (n: No. of pos.)</p> |

Note1) Please contact us for details on inspection jig connector specifications.

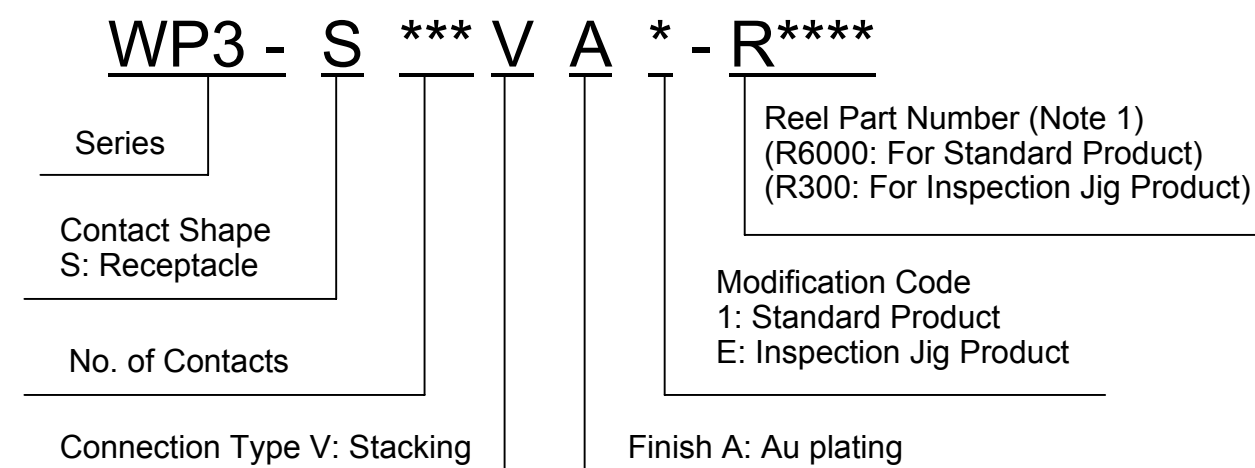
Materials and Finishes

Component	Material / Finish
Contact	(Contact area) Cu alloy / Au plating (0.1 μm min.) (Mounting area) Cu alloy / Au plating (0.05 μm min.)
Insulator	Heat-resistant plastic
Hold-Down	Plug: Cu alloy / Au plating (0.1 μm min.) Receptacle: Cu alloy / Sn plating

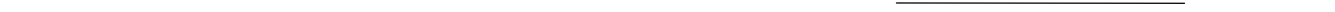
Ordering Information (Plug)



Ordering Information (Receptacle)



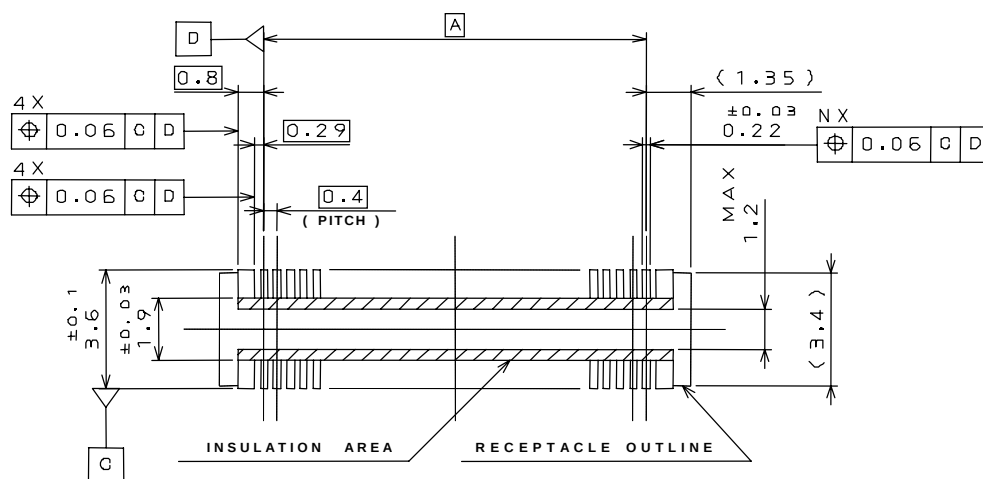
Note 1) An embossed tape reel contains 6,000 pieces of standard product, or 300 pieces of inspection jig product. Please contact us for details on embossed tape specifications.

[illegible]

Note 1: Supplimentary information available at <http://www.jstor.org/stable/267098>.

D1 **1** **6** **1** **11** **16** **0**

Part Number	WP3-P***VA1
SJ Drawing	SJ111555



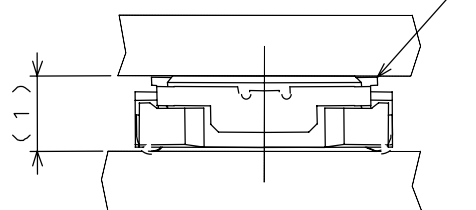
Applicable Dimensions of Board (For reference)

Note 1) Dimension 3 ± 0.05 is recommended in case repair is needed.

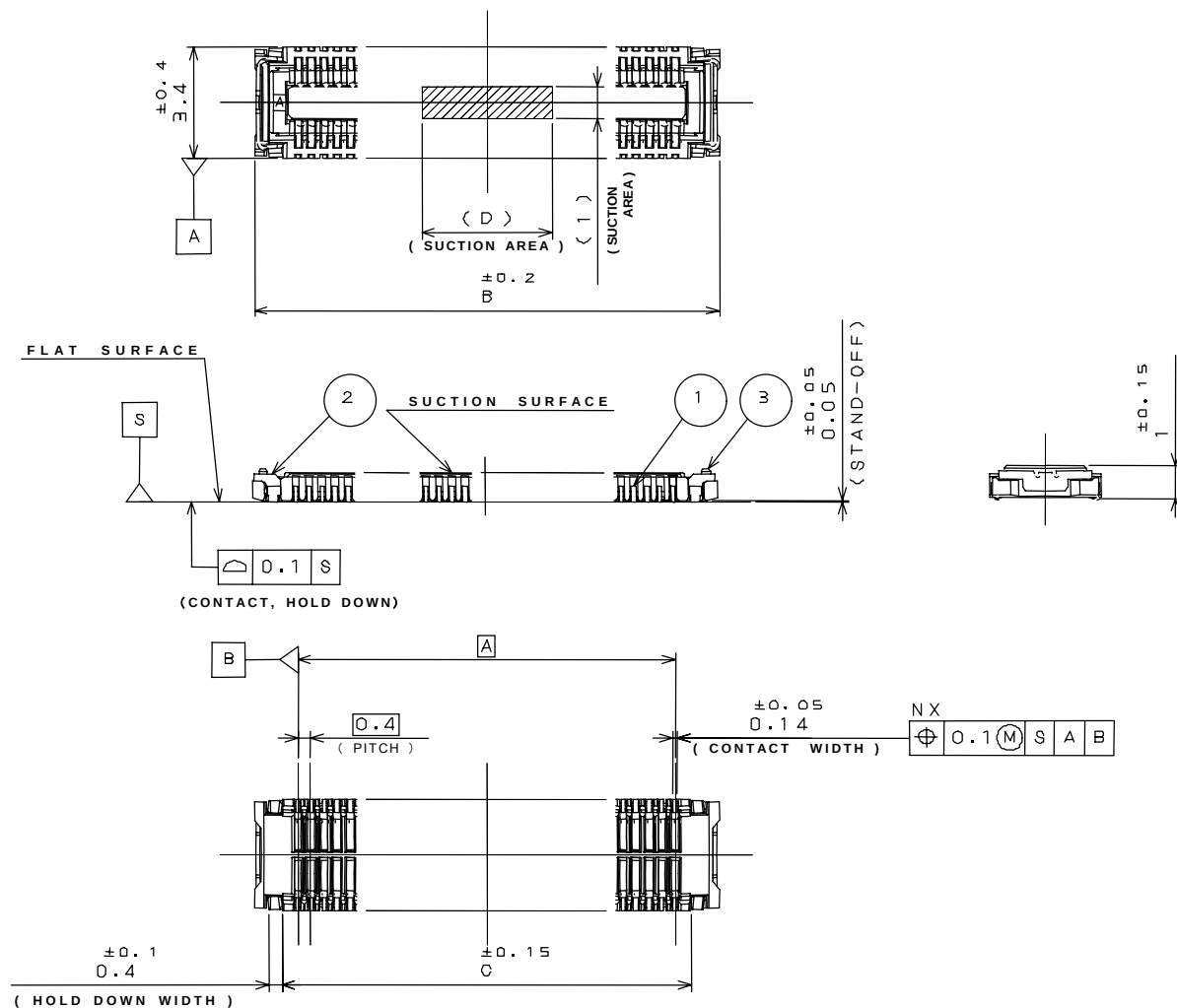
Part Number	WP3-S***VA1
SJ Drawing	SJ111557

WP3 - P***VA1 (PLUG)

(S J 1 1 1 5 5 5)



MATED CONDITION (REF.)



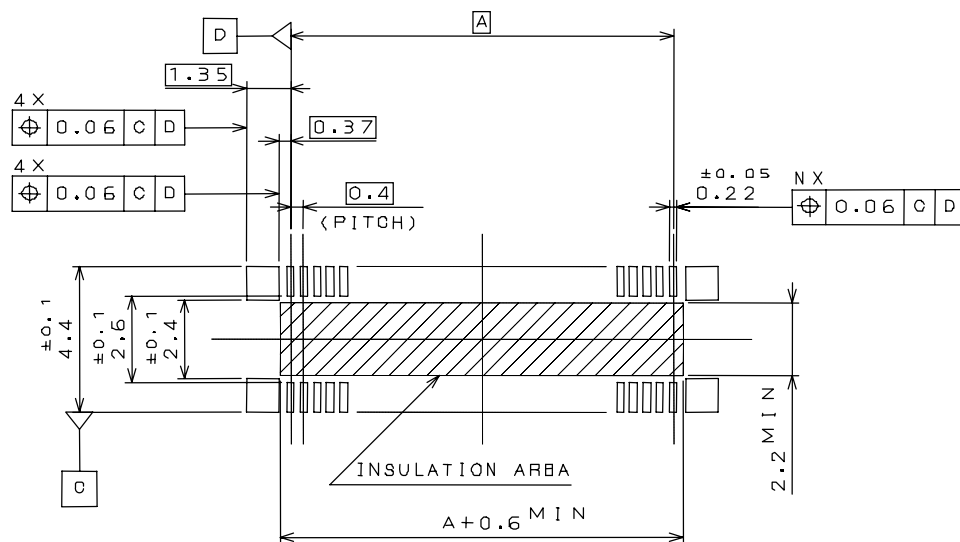
No. of Contacts	A	B	C	D
16	2.8	5.5	3.8	2.0
20	3.6	6.3	4.6	2.0
22	4.0	6.7	5.0	2.0
24	4.4	7.1	5.4	2.0
30	5.6	8.3	6.6	2.0
36	6.8	9.5	7.8	2.0
40	7.6	10.3	8.6	2.0
42	8.0	10.7	9.0	2.0
50	9.6	12.3	10.6	2.0
64	12.4	15.1	13.4	4.0
70	13.6	16.3	14.6	4.0
80	15.6	18.3	16.6	4.0

Note 1) Coplanarity: 0.1mm max.

Note 2) An embossed tape reel contains 6,000 pieces.

Please contact us for details on embossed tape specifications.

Part Number	WP3-S***VA1
SJ Drawing	SJ111557



Applicable Dimensions of Board
(For reference)

Note 1) Dimension 3 ± 0.05 is recommended in case repair is needed.

Product Line-up

Plug Part Number (Drawing)	Receptacle Part Number (Drawing)
WP3-P***VA1 (SJ111555)	WP3-S***VA1 (SJ111557)

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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.