



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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NEW


0.4mm Pitch, Stacking Type
Board-to-Board (FPC) Connector

CONNECTOR

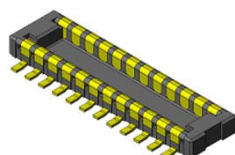
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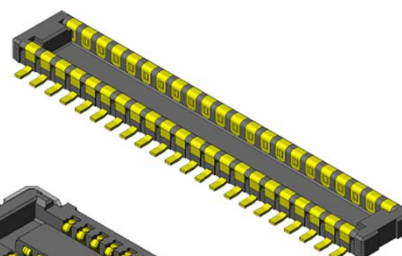
WP7 Series

RoHS Compliant

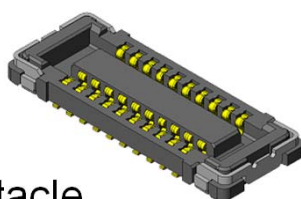
Plug



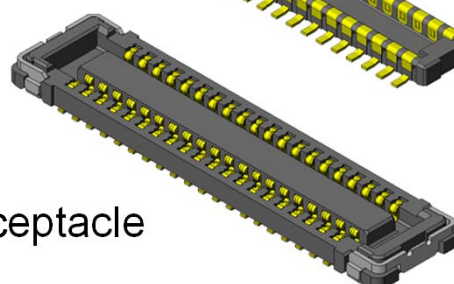
Plug



Receptacle



Receptacle



The WP7 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, LCD, and notebook PC.

To satisfy different product function requirements, a low pin count type and a high pin count type (WP7A/WP7B) are available with the same mounting pattern.

Features

- 0.4mm pitch, 2 rows, 0.7mm stacking height.
- Contact structure ensures high wear-resistance and high contact reliability.
- Secure hold-downs prevent insulator breakage and peeling from FPC.
- 2-point contact design to resist twisting stress.
- Pb-free (Ni barrier on contact prevents solder wicking.)
- High removal force WP7A for (low pin count: 10-30 pos.)
- Low insertion force WP7B for (high pin count 40-70 pos.)
- * Mounting pattern for WP7A and WP7B is the same.

General Specifications

■(WP7A) No. of Contacts:
10, 16, 20, 24, 26, 28, 30, 32 pos.

■(WP7B) No. of Contacts:
34, 40, 50, (60), 70 pos.

Note: () is planned to be developed

■Pitch: 0.4mm, 2 rows

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

■Contact Resistance: 70mΩ max. (initial)

■Life Time: 30 mating cycles

■Rated Current: AC, DC 0.3A each per terminal

■Rated Voltage: AC, DC 50V

■Insulation Resistance: 100MΩ min. (initial)

■Dielectric Withstanding Voltage:
AC250Vr.m.s for 1 minute

■(WP7A) total insertion force:
1.50N x n max. (n: No. of pos.)

■(WP7A) total removal force:
0.15N x n min. (n: No. of pos.)

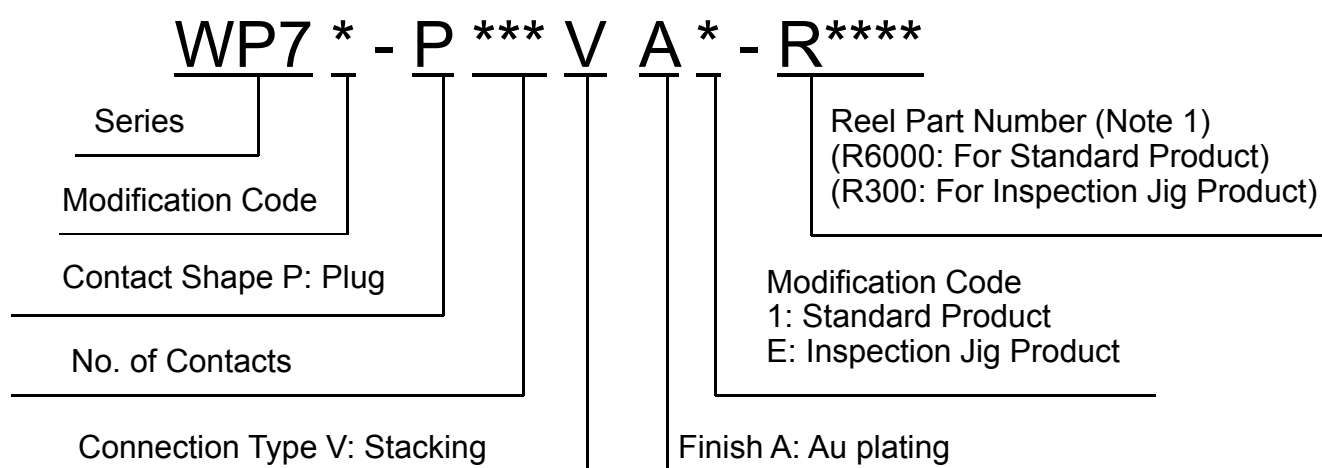
■(WP7B) total insertion force:
1.00N x n max. (n: No. of pos.)

■(WP7B) total removal force:
0.10N x n min. (n: No. of pos.)

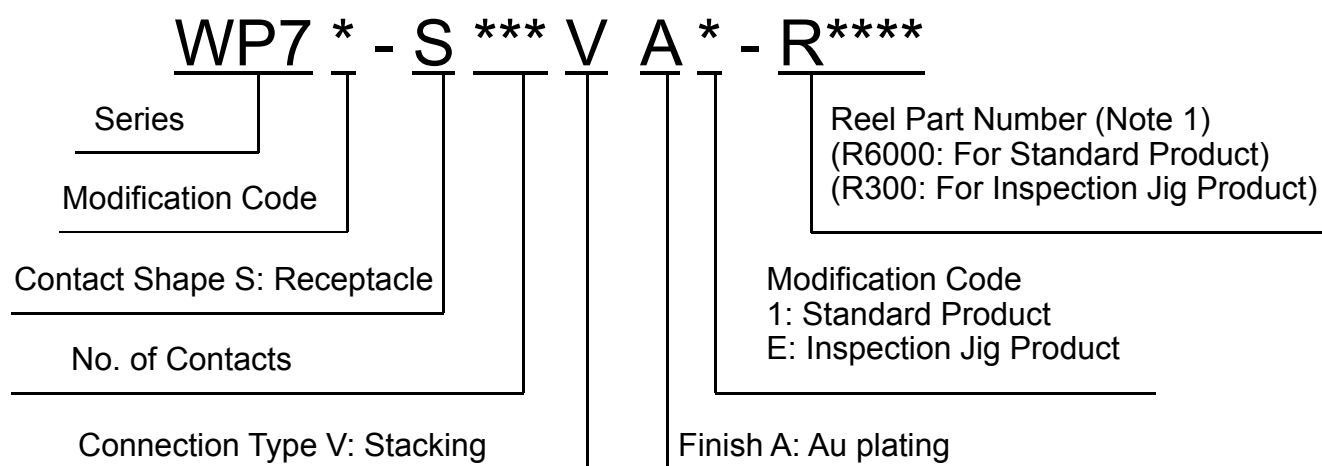
Materials and Finishes

Component	Material / Finish
Contact	Cu alloy / Au plating (0.1 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.

WP7A Plug

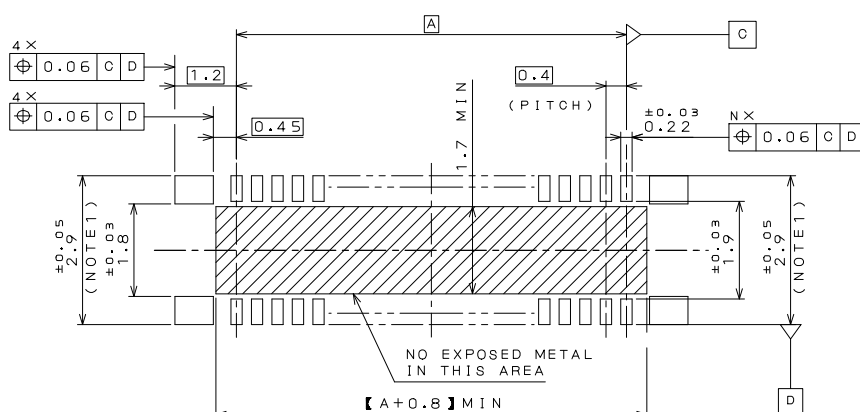


<div> <div> DIMENSIONS 寸法 </div> <div> NUMBER OF CONTACT 芯数 </div> </div>	A	B	C
10	1.6	3.4	2.0
16	2.8	4.6	2.0
20	3.6	5.4	2.0
24	4.4	6.2	2.0
26	4.8	6.6	5.0
28	5.2	7.0	5.0
30	5.6	7.4	5.0
32	6.0	7.8	5.0

Note 1) Four corners are hold-downs. (Cannot be used for electrical connection.)
ex. Connector with 10 (N) pos. will have same amount of SMT terminals as 14 (N+4) pos.

Note 2) Dimension 3 ± 0.05 is recommended in case repair is needed.

WP7A Receptacle

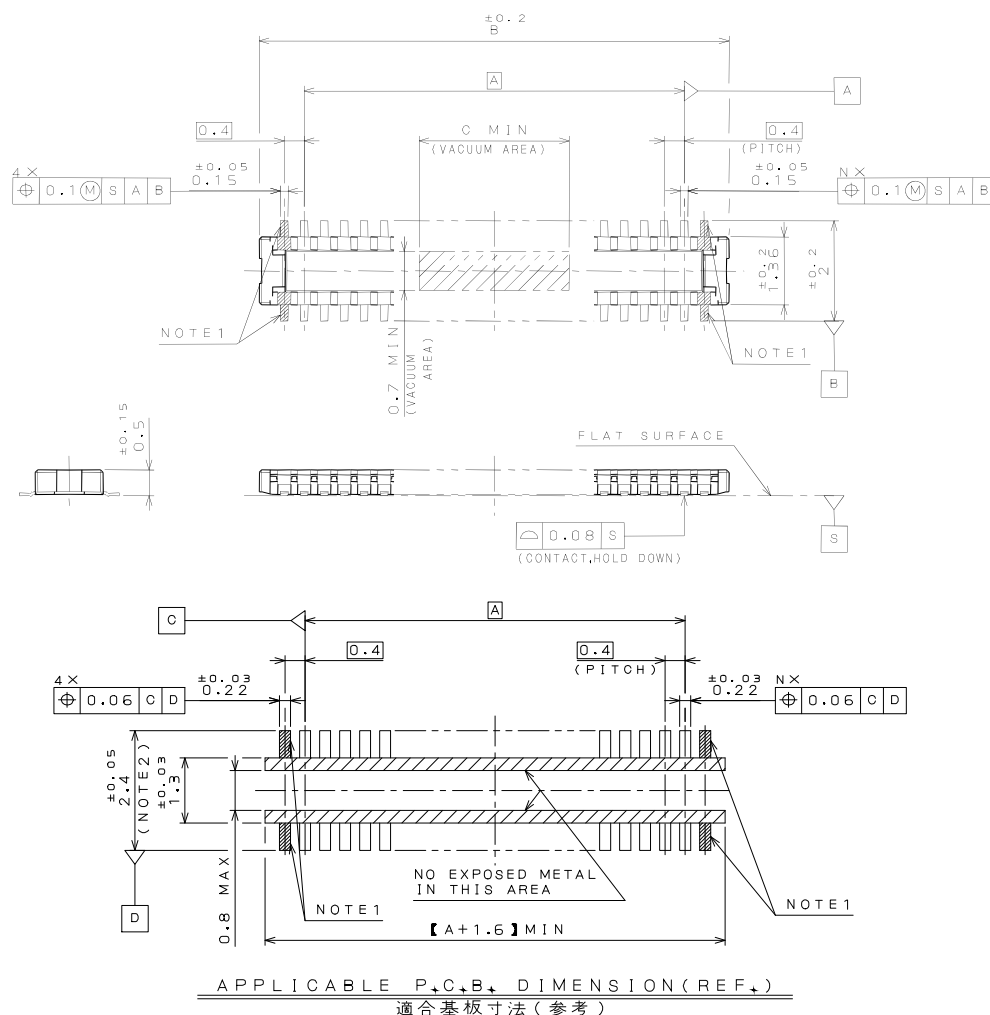


<div> <div> DIMENSIONS 寸法 </div> <div> NUMBER OF CONTACT 芯数 </div> </div>	A	B	C	D
10	1.6	4.6	2.8	2.0
16	2.8	5.8	4.0	2.0
20	3.6	6.6	4.8	2.0
24	4.4	7.4	5.6	2.0
26	4.8	7.8	6.0	5.0
28	5.2	8.2	6.4	5.0
30	5.6	8.6	6.8	5.0
32	6.0	9.0	7.2	5.0

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Part Number	WP7B-P***VA1
SJ Drawing	SJ111879

WP7B Plug

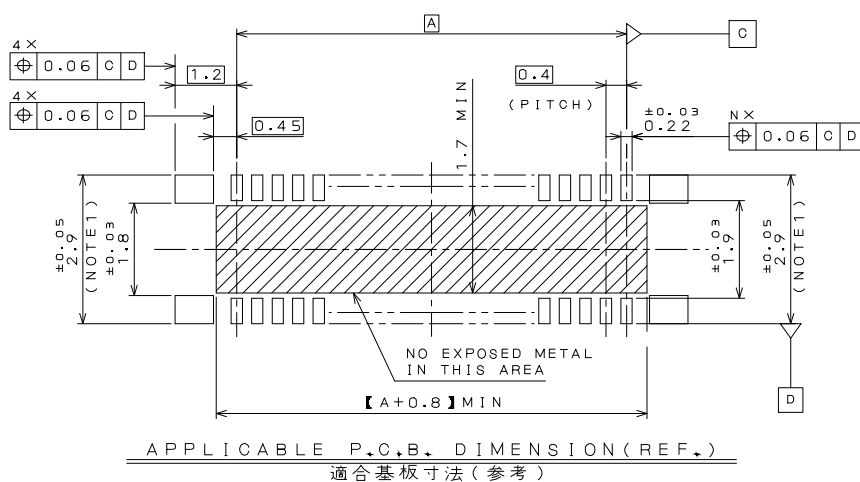


NUMBER OF CONTACT 芯数	DIMENSIONS 寸法		
	A	B	C
34	6.4	8.2	5.0
40	7.6	9.4	5.0
50	9.6	11.4	5.0
(60)	11.6	13.4	5.0
70	13.6	15.4	5.0

Note 1) Four corners are hold-downs. (Cannot be used for electrical connection.)
ex. Connector with 40 (N) pos. will have same amount of SMT terminals as 44 (N+4) pos.

Note 2) Dimension 3 ± 0.05 is recommended in case repair is needed.

WP7B Receptacle



Note 1) Dimension 3.5 ± 0.05 is recommended in case repair is needed.

Product Line-up

Types	WP7A (10-32 pos.)	WP7B (34-70pos.)
Drawings (Plug)	Individual Product: SJ111875 Reel Product: SJ111876	Individual Product: SJ111879 Reel Product: SJ111880
Drawings (Receptacle)	Individual Product: SJ111877 Reel Product: SJ111878	Individual Product: SJ111881 Reel Product: SJ111882
Specifications	JACS-10814	JACS-10818
Handling Instructions	JAHL-10814	JAHL-10818
Summary Reports	SR-C-1023	SR-C-1024

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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