

NEW


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

CONNECTOR

MB-0228-2

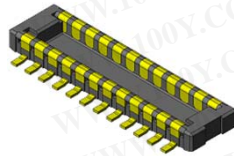
February 2014

WP7 Series

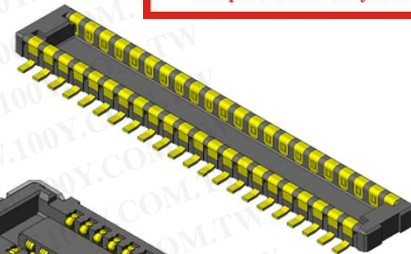
RoHS Compliant

 勝特力材料 886-3-5753170
 勝特力电子(上海) 86-21-34970699
 勝特力电子(深圳) 86-755-83298787
 Http://www.100y.com.tw

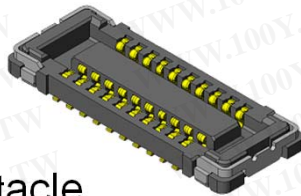
Plug



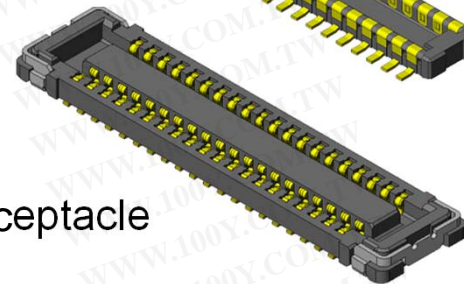
Plug



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

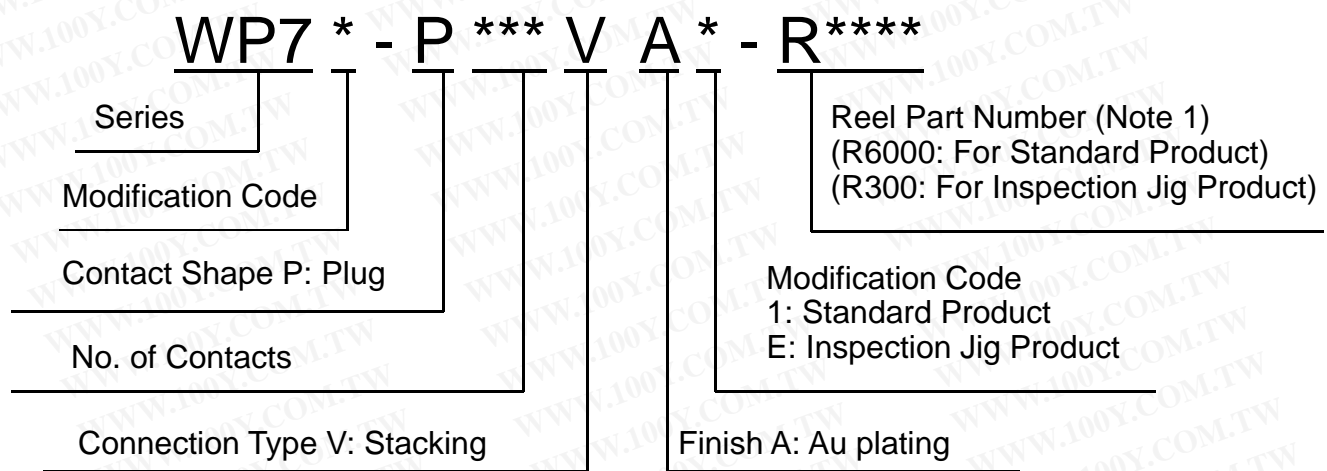
- Pitch: 0.4mm, 2 rows
- Operating Temperature:
-40 Deg. C to +85 Deg. C
- Contact Resistance: 70mΩ max. (initial)
- Life Time: 30 mating cycles

- 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.)

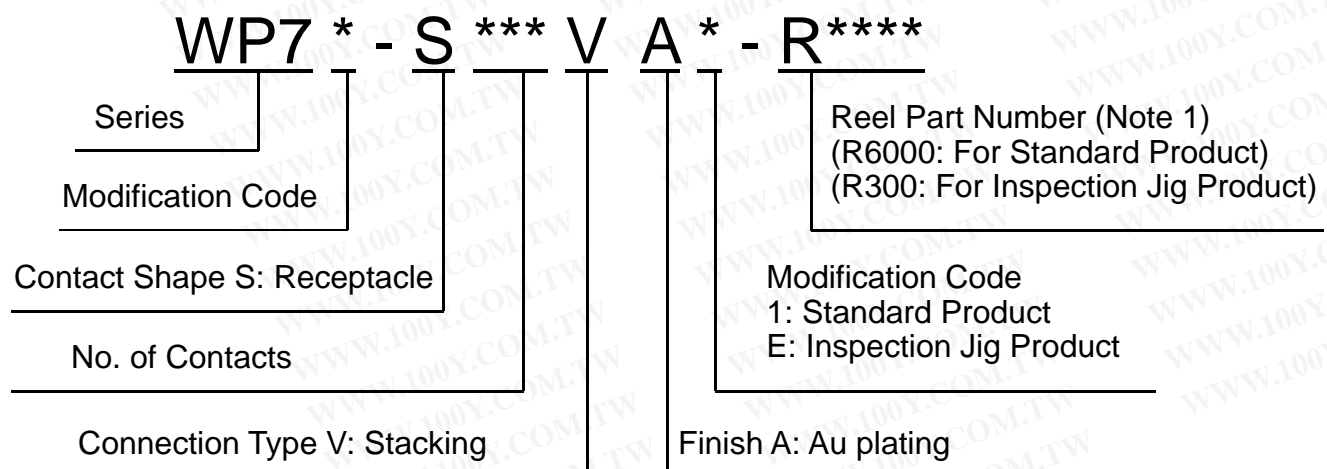
Materials and Finishes

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)



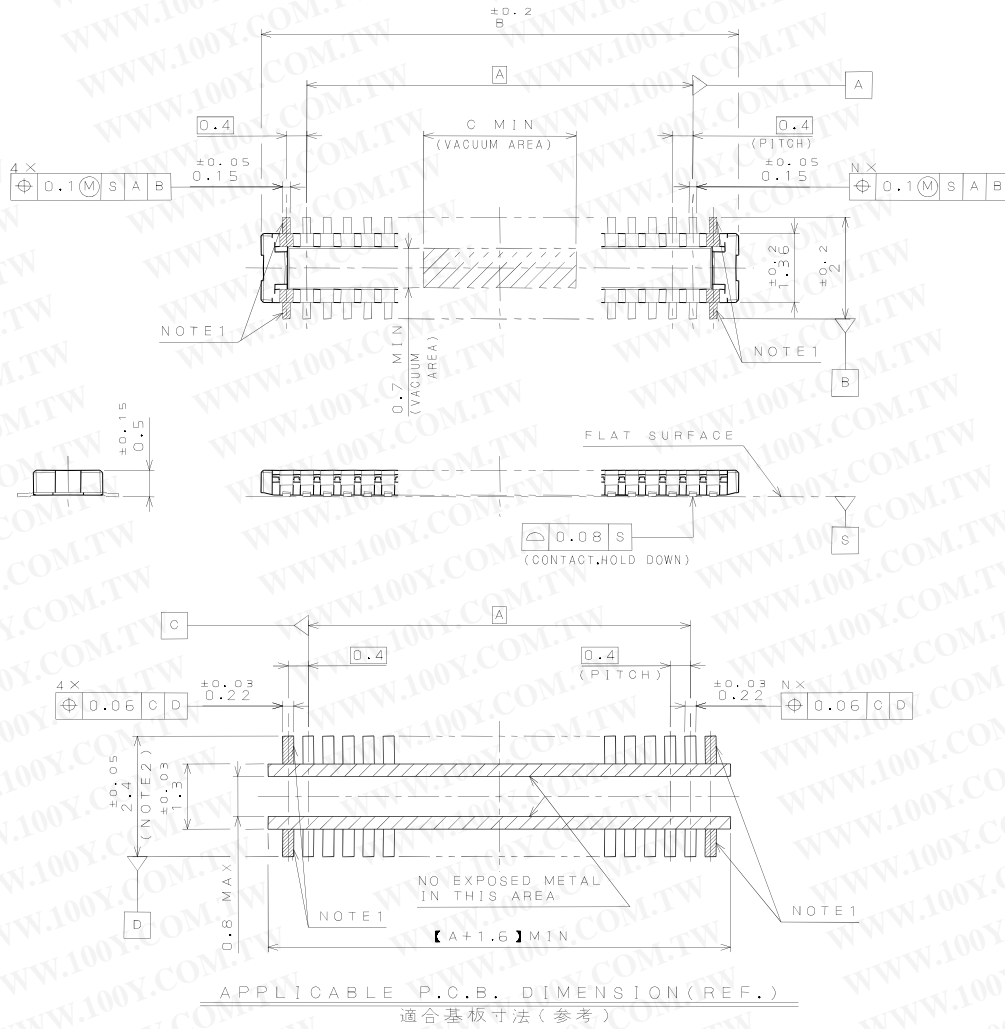
Ordering Information (Receptacle)



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.

Part Number	WP7-P***VA1
SJ Drawing	SJ111875

WP7A Plug



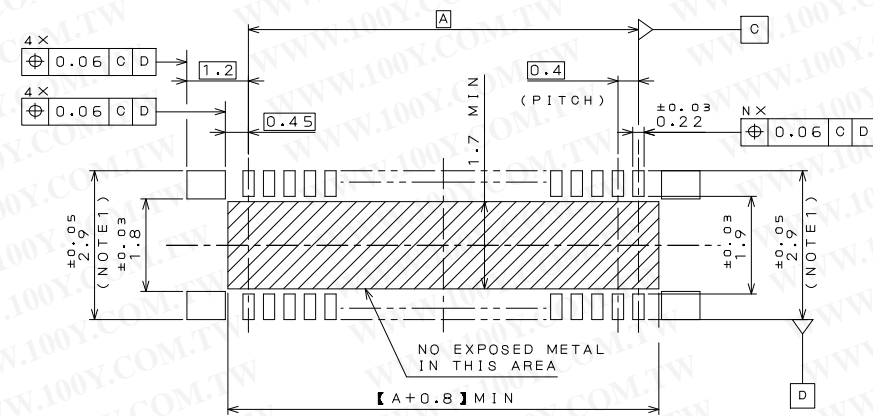
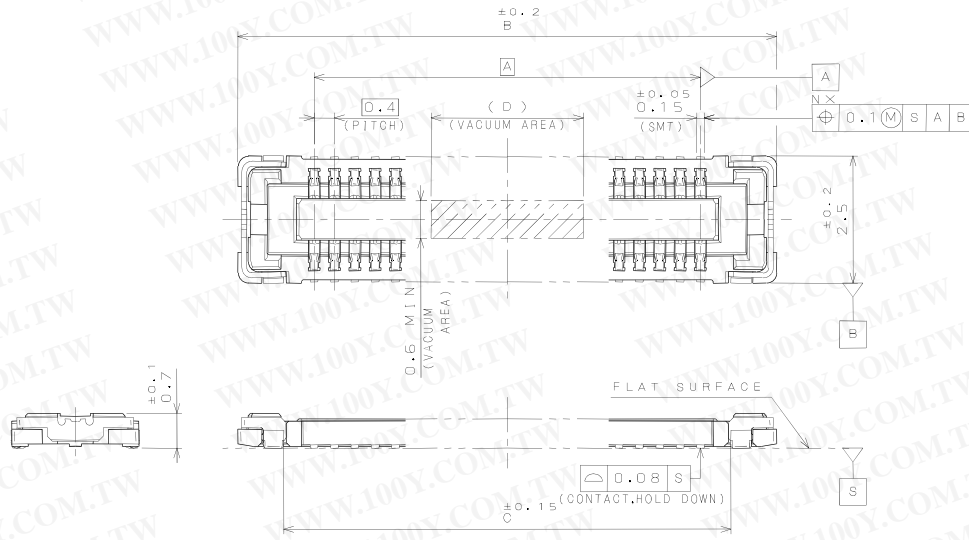
NUMBER OF CONTACT 芯数	DIMENSIONS 寸法		
	A	B	C
10	1.6	3.4	2.0
16	2.8	4.6	2.0
20	3.6	5.4	2.0
24	4.4	6.2	2.0
26	4.8	6.6	5.0
28	5.2	7.0	5.0
30	5.6	7.4	5.0
32	6.0	7.8	5.0

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.

Part Number	WP7A-S***VA1
SJ Drawing	SJ111877

WP7A Receptacle



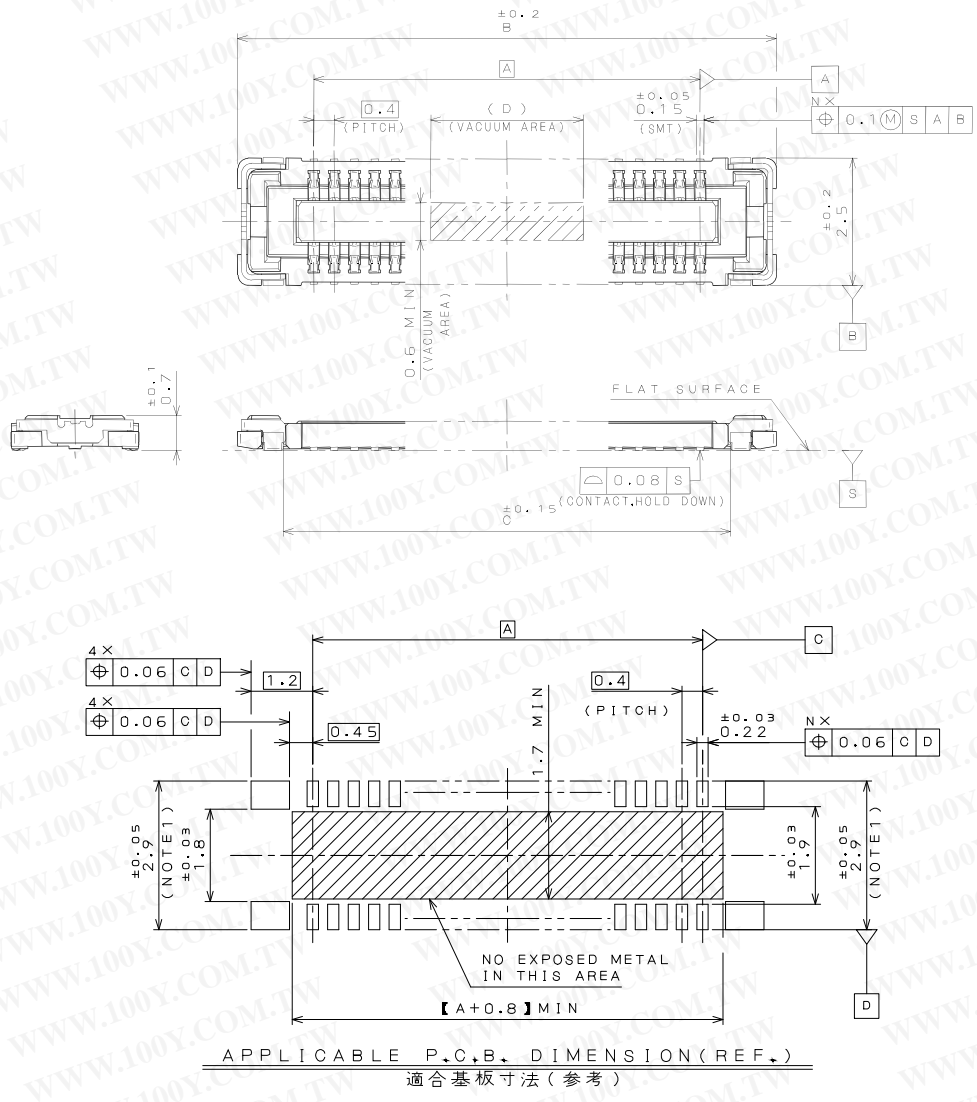
APPLICABLE P.C.B. DIMENSION (REF.+)
 適合基板寸法 (参考)

NUMBER OF CONTACT 芯数	DIMENSIONS 寸法			
	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

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

Part Number	WP7B-S***VA1
SJ Drawing	SJ111881

WP7B Receptacle



DIMENSIONS 寸法	NUMBER OF CONTACT 芯数			
	A	B	C	D
34	6.4	9.4	7.6	5.0
40	7.6	10.6	8.8	5.0
50	9.6	12.6	10.8	5.0
(60)	11.6	14.6	12.8	5.0
70	13.6	16.6	14.8	5.0

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