

**NEW**



1.0mm Pitch Bay Connector

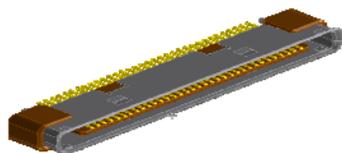
CONNECTOR

MB-0090-3

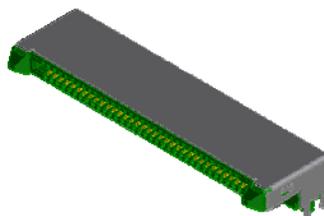
July 2006

## WM1 Series

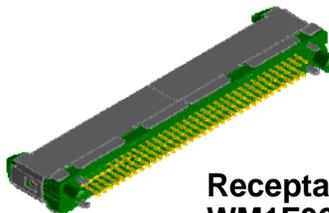
**RoHS Compliant**



**Plug(Drive side)  
WM1M068USA**



**Receptacle  
WM1F068NSA**



**Receptacle  
WM1F068USA**

The WM1 Series bay connectors realizes 1.0mm pitch while supporting USB2.0.

### Features

- 1.0mm pitch, 68 pos. bay connector supporting USB2.0 in addition to IDE signals.
- Metal shell used for EMI prevention.
- Low profile board-to-board bay connector with 5.55mm connector height.
- Supports hot plug by using a 2-level hot plug structure on plug side (WM1M068USA)  
2 types of valid connection lengths, 2.9mm and 2.5mm, for contacts to support 2 levels of hot plug (difference in level: 0.4mm).
- Plug side of WM1M068USA and receptacle side of WM1F068USA both equip positioning bosses to support through hole reflow.
- 12.8 mm mating depth.
- Plug side of WM1M068USA supports Interposer boards (SLB-XDE-1, -TMK-1).
- Superior positioning error absorption structure  
Insertion guide is used to absorb errors during drive insertion and removal.  
Width:  $\pm 2.0$ mm, height:  $\pm 2.0$ mm
- Lifetime: 5,000 times achieved
- Products available in 0.1 $\mu$ m and 0.76 $\mu$ m Au plating thickness for connection area, ensures high reliability
- No polar characteristics are applied to keys.

### General Specifications

- |  |   |
|--|---|
| ■ No. of contacts : 68 pos.                                  | ■ Rated current: 0.5A per pin             |
| ■ Contact resistance:<br>60m ohm max.                        | ■ Insulation resistance:<br>100M ohm min. |
| ■ Dielectric withstanding voltage:<br>AC250Vr.m.s per minute | ■ Lifetime: 5000 times                    |
| ■ Contact pitch: 1.0mm                                       | ■ Rated voltage: AC125Vr.m.s              |
| ■ Operating temperature:<br>-40 Deg. C to +85 Deg. C         |   |

Materials and Finishes
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## WM1F068NSA / WM1F068USA

Components	Materials	Finishes
Base insulator	Heat resistant plastic glass filled LCP	No (UL94V-0 Black)
Connector	Copper alloy	Contact: Au plating Terminal: Sn type plating
Shell	Stainless steel	Ni plating

## WM1M068USA

Components	Materials	Finishes
Base Insulator	Heat resistant plastic glass filled LCP	No (UL94V-0 Black)
Contact	Copper alloy	Contact: Au plating Terminal: Sn type plating
Shell	Steel	Ni plating



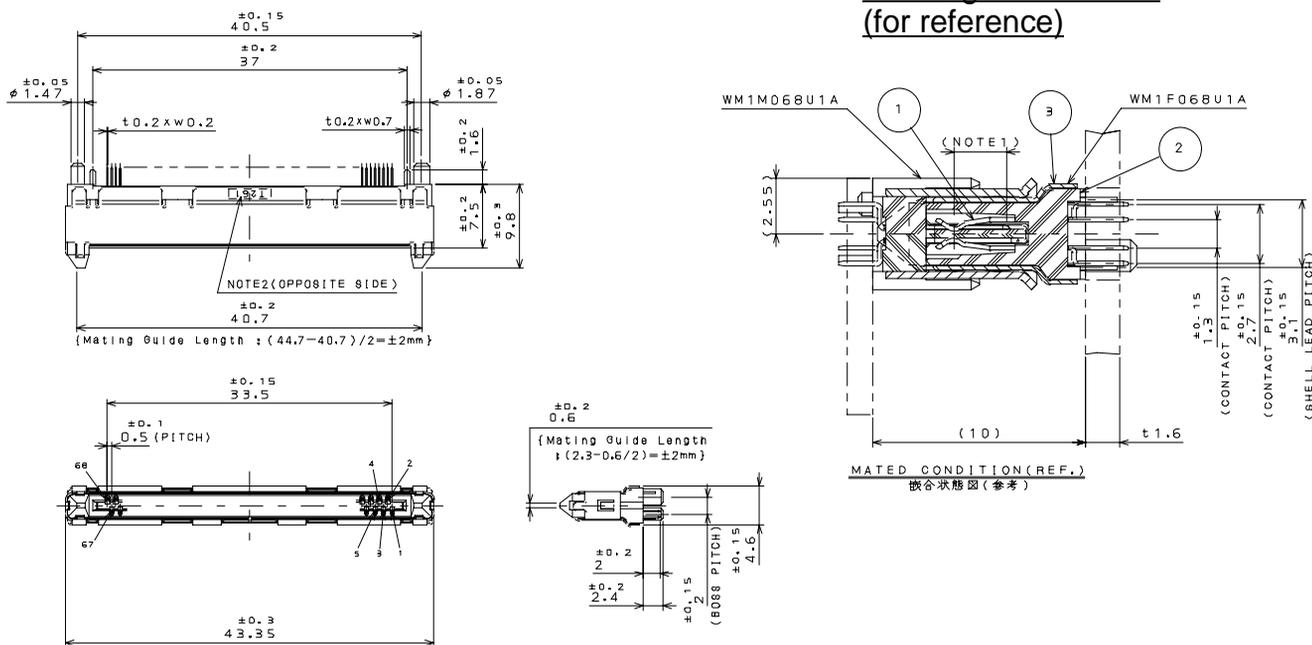


# Ordering Information

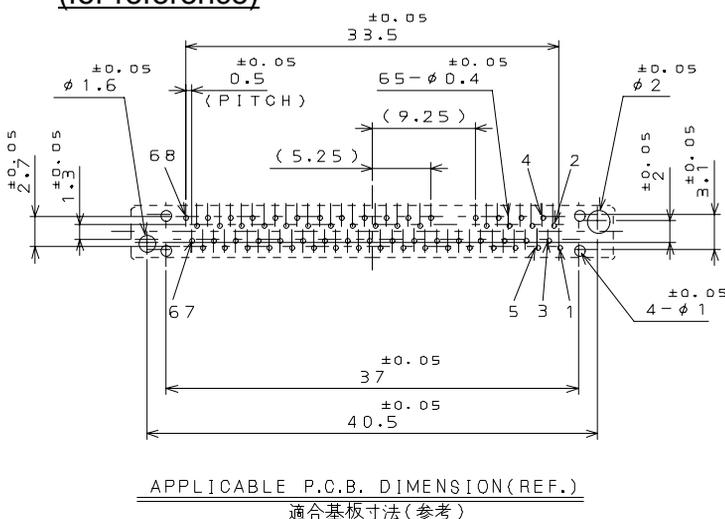
**Series** WM1 F \*\*\* U S A  
**Contact shape F:**  
 Spring side, Receptacle side  
**No. of contacts**  
**Modify code**  
 Finish 1: Sn plating over Ni  
**Connection type U:**  
 Straight through-hole/  
 with positioning boss

Part Number	WM1F068USA
SJ Drawing	SJ101159

## Drawing when mated (for reference)



## Applicable dimension of board (for reference)



**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.

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\* The specifications in this brochure are subject to change without notice. Please contact JAE for information.