JAE

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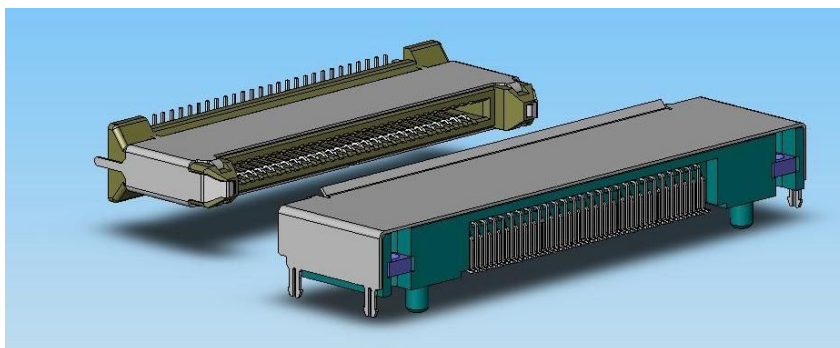
Board to Board Connector Compatible to SATA

WM2 Series

CONNECTOR
MB-0139-2
July 2006

RoHS Compliant

WM2 Series are USB2.0 and SATA (Serial ATA) compatible unit connection connectors, that can be used for the bay unit connection of notebook PCs.

Features

■Compatible to SATA and USB 2.0 transmission.

■With shell compatible to EMI
  The shells (ground portion) will connect first when mating.

■Strong durability, 10,000 times mating and unmating cycle guaranteed

■Two-step live insertion structure is employed for contact.

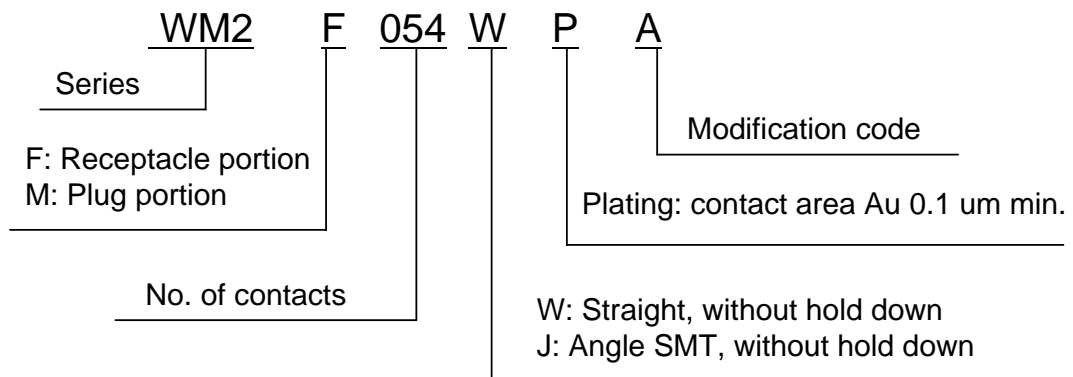■Comes with enough guide for blind mating. Length of guide: ±17mm (each direction)

General Specifications

■No. of contacts: 54 pos.

■Contact resistance: 50m ohm max.

■Dielectric withstanding voltage : AC250 per minute

■Operating temperature: -40 Deg. C to +85 Deg. C
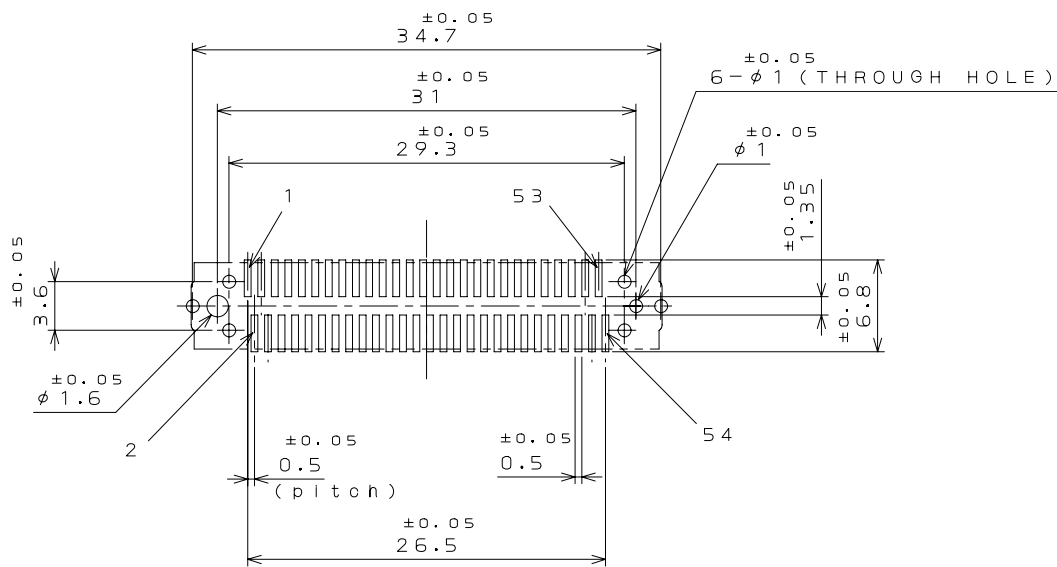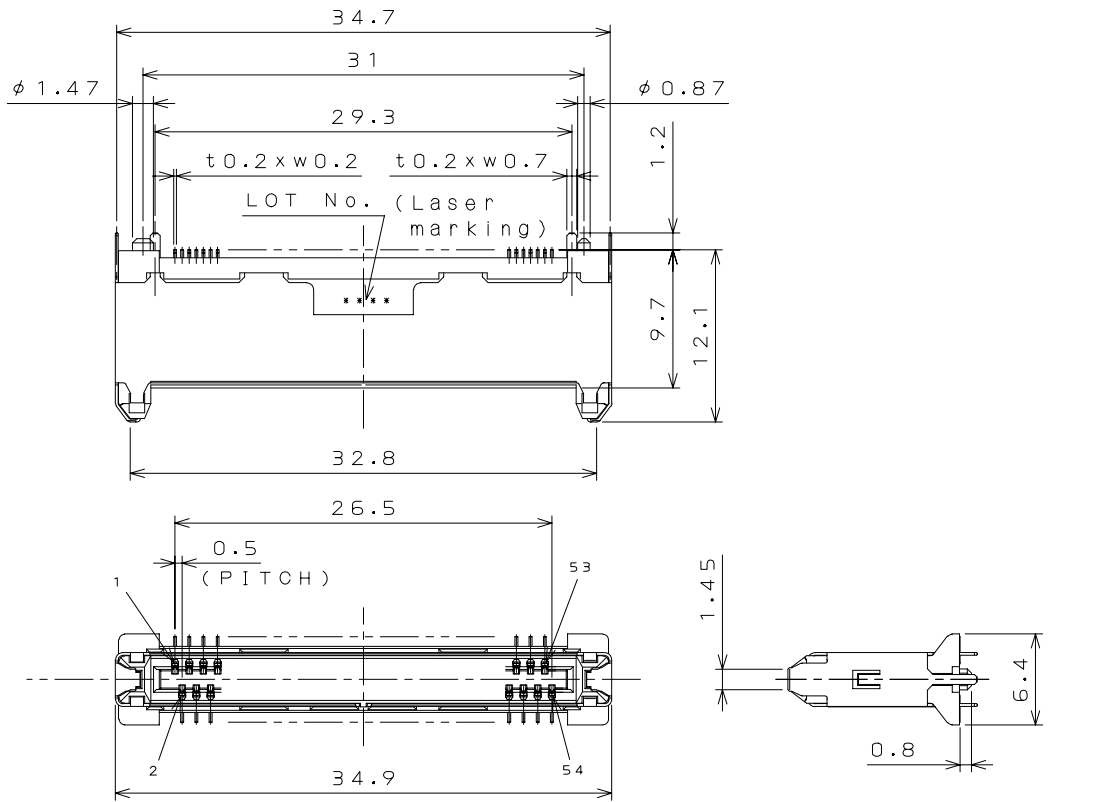
■Rated voltage: 0.5A/ per pin

■Durability: 10,000 cycle

Materials and Finishes

Components	Materials /Finishes	
Receptacle		
Contact	Copper Alloy/ Contact: 0.1um min. Au plating over Ni Terminal: Au flash plating over Ni	
Insulator	Glass filled LCP (UL94V-0)	
Shell	Stainless steel	
Plug		
Contact	Copper Alloy/ Contact: 0.1um min. Au plating over Ni Terminal: Au flash plating over Ni	
Insulator	Glass filled LCP	
Shell	Stainless steel	
Nut	Steel/ Ni plating M2	

Ordering Information

WM2   F   054   W   P   A

Series

F: Receptacle portion
M: Plug portion

No. of contacts

W: Straight, without hold down
J: Angle SMT, without hold down

Plating: contact area Au 0.1 um min.

Modification code

Receptacle side: WM2F054WPA (SJ100657)

Applicable P.C.B dimension

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Plug side: WM2M054JPA　(SJ100658)
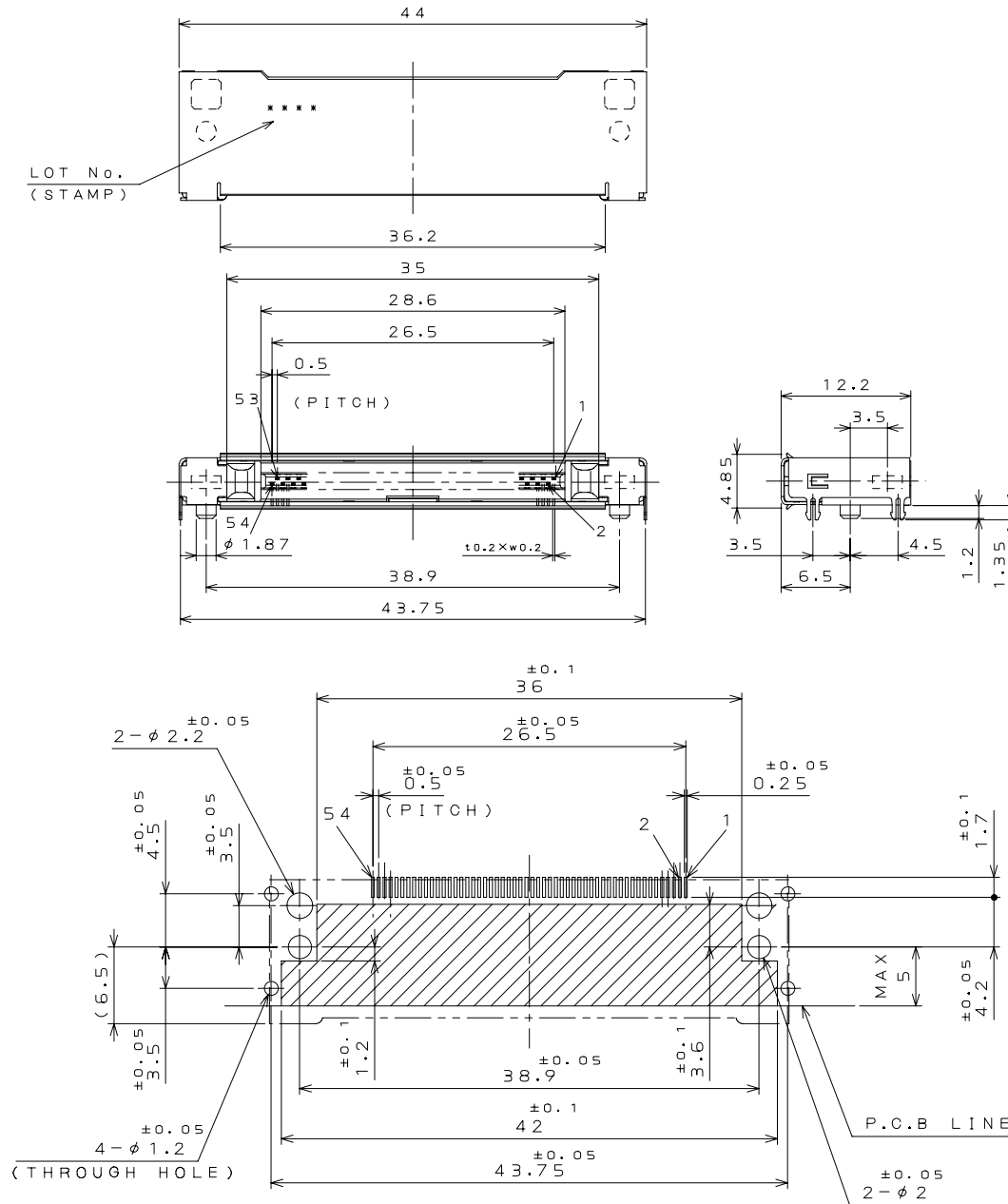
Applicable P.C.B dimension

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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.