

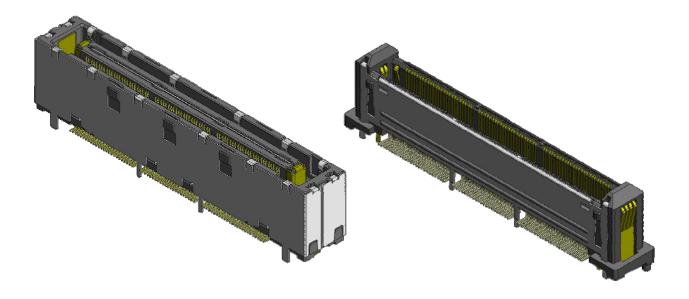


Docking Connector Compatible with PCI Express

WD2 Series

CONNECTOR MB-0200-1 March 2009

RoHS Compliant



The WD2 Series are docking connectors compatible with high-speed differential transmission such as PCI Express.

Features

- ■Designed for high-speed serial transmission such as PCI Express and Display Port
- ■Ground bar on receptacle side for ESD (Electrostatic Discharge) countermeasure
- Available in several mating heights and angle variations
- Mating guide length in pitch direction \pm 1.3mm, cross direction \pm 1.2mm
- ■4 pos. (2 pair) for power in mating guide area with current capacity of 10A per pair, 20A in total

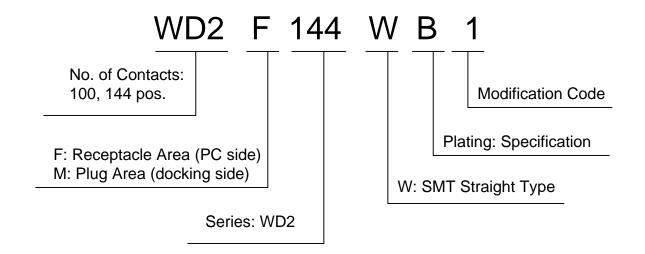
General Specifications

- ■No. of Contacts: 100, 144 pos. (for signal) + 4 pos. (for power)
- ■Contact Resistance: 190m ohm max.
- ■Dielectric Withstanding Voltage: AC500Vr.m.s. per minute
- ■Rated Current: 0.5 per terminal (signal), 10 A per pair (power)
- ■Insulation Resistance: 100M ohm min.
- ■Durability: 10,000 times
- ■Operating Temperature: -40 deg. C to 85 deg. C

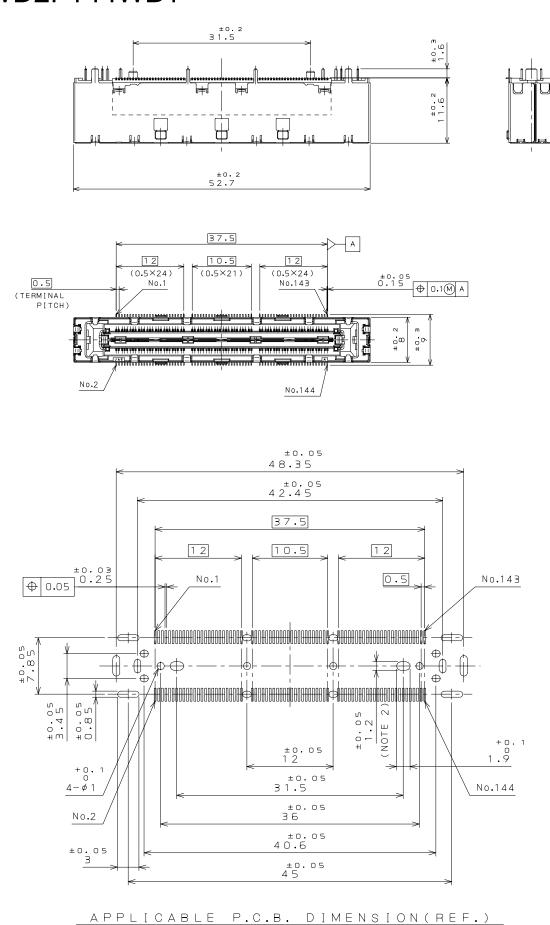
Materials and Finishes

Component	nponent Material / Finish		
Receptacle			
Signal Contact	Copper alloy / contact area: 0.3um min. Au plating over Ni		
Power Contact	Copper alloy / contact area: 0.3um min. Au plating over Ni		
Insulator	Insulator Glass filled LCP		
Inner Insulator	Glass filled LCP		
Shell Copper alloy / Ni plating			
Plate Copper alloy / Sn plating			
Plug			
Signal Contact	Copper alloy / contact area: 0.3um min. Au plating over Ni		
Power Contact Copper alloy / contact area: 0.3um min. Au plating over N			
Insulator	Insulator Glass filled LCP		
Shell	Copper alloy / Ni plating		
Hold Pin	Copper alloy / Sn plating		
Vacuum Area	Glass filled PPS (removed after mounting)		

Ordering Information

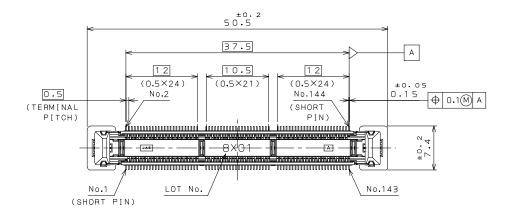


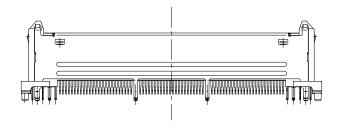
WD2F144WB1

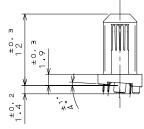


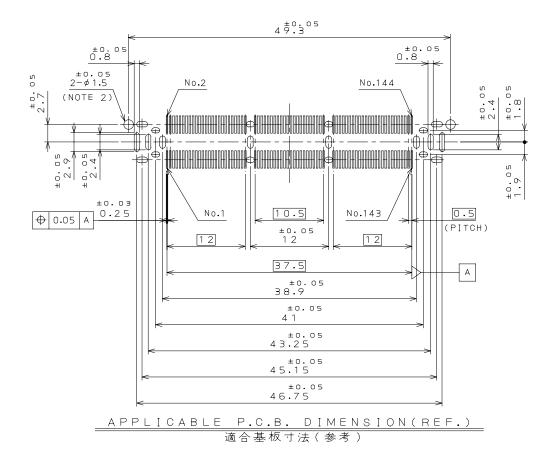
適合基板寸法(参考)

WD2M144WB1









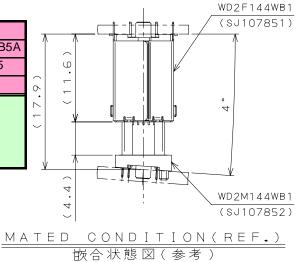
Drawing

	Part Number		SJ Drawing	Specification	
	Receptacle (PC side)				
	WD2F144WB1		SJ107851		
	WD2F144WB1R300		SJ108414		
	WD2F144WB2		SJ108380		
	WD2F144WB2R250		SJ108381		
	WD2F144WB3		SJ108382		
144 pos.	WD2F144WB3R300		SJ108383		
144 μυδ.	WD2F144WB4		SJ108384	JACS-10491-01	
	WD2F144WB4R400		SJ108385] 0,100 10401 01	
	WD2F144WB5		SJ108376		
	WD2F144WB5R400		SJ108416		
	Plug (docking side)				
	WD2M144WB1		SJ107852		
	WD2M144WB1R300		SJ108415		
	WD2M144WB2		SJ108374		
	WD2M144WB2R3	800	SJ108375		
	Recept	tacle (F	PC side)		
	WD2F100WB3A		SJ108477		
100 pos.	WD2F100WB3AR300 WD2F100WB5A		SJ108478		
			SJ108475		
	WD2F100WB5AR400		SJ108476	JACS-10491-02	
	Plug (docking side)				
	WD2M100WB1A SJ108473 WD2M100WB1AR300 SJ108474		SJ108473		

Mating Combinations

		Receptacle (PC side)					
144 pos. Variations		Part Number	WD2F144WB1	WD2F144WB2	WD2F144WB3	WD2F144WB4	WD2F144WB5
		Drawing No.	SJ107851	SJ108380	SJ108382	SJ108384	SJ108376
		Connector Height	11.6	13.9	10.4	7.7	6.95
Plug side (docking side)	Part Number	WD2M144WB1	17.9	20.2	16.7	14	13.25
	Drawing No.	SJ107852					
	Connector Height	12					
	Mating angle	4					
	Part Number	WD2M144WB2	16.4	18.7	15.2	12.5	11.75
	Drawing No.	SJ108374					
	Connector Height	10.5					
	Mating angle	0					

100 pos.			Receptacle		
		Part Number	WD2F100WB3A	WD2F100WB5A	
	Variations	Drawing No.	SJ108477	SJ108475	
		Connector Height	10.4	6.95	
	Part Number	WD2M100WB1A			
Plug	Drawing No.	SJ108473	16.7	13.25	
F	Connector Height	12	10.7		
	Mating angle	4			



Japan Aviation Electronics Industry, Limited

Product Marketing Division

Aobadai Building, 3-1-19, Aobadai, Meguro-ku, Tokyo 153-8539 Phone: +81-3-3780-2787 FAX: +81-3-3780-2946 Motice: 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

telecommunication devices (terminals, mobile devices), AV devices, household applications, FA devices, etc.

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

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