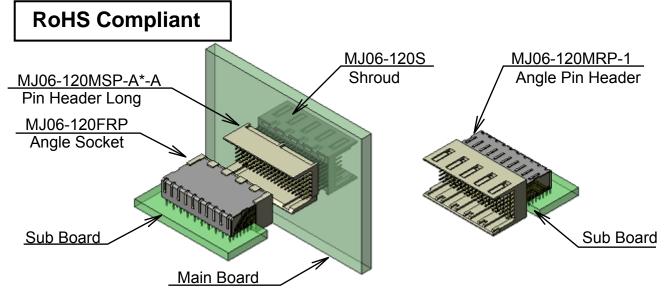




General Purpose Gigabit Transmission Metric System Connector

MJ06 Series

CONNECTOR MB-0206-1 August 2010



The MJ06 Series is a high-speed signal connector for differential transmission, compatible with backplane/midplane type devices. It has superior high-speed transmission performance, with a balanced transmission structure that is ideal for differential transmission and allows for a simplified mounting pattern design.

Features

- Compatible with IEC61076-4-101 mounting dimensions. Usage is possible with the same standard connectors (known as HM connectors).
- Pair signal alignment (side pair, 1.8mm pitch) and ground structure, optimized for high-speed differential transmission
- Symmetrical pin structure prevents skew between differential signal pair.
- Press-fit attachment to board for both pin side and socket side connector (finished diameter compatible with 0.6mm dia.)
- Through-hole location to optimize board wiring pattern.
- Compatible with connector height 9mm max. from board, minimum slot distance 17mm.
- Available in cable connection type. (Please contact us for more information.)

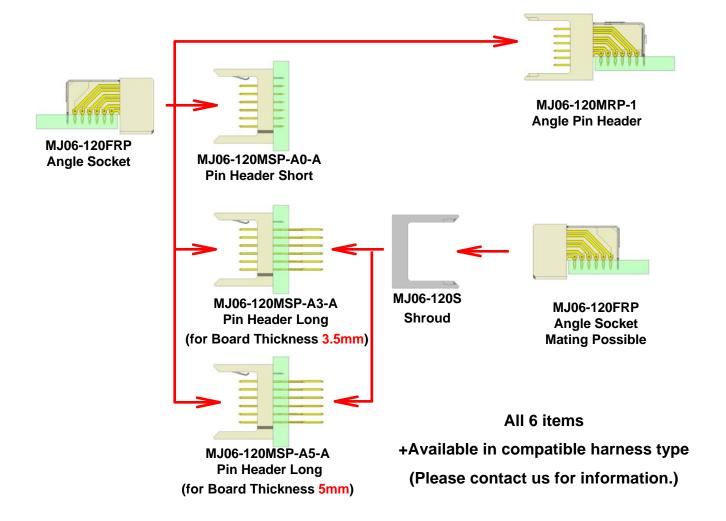
Applications

■ Factory automation equipment, semiconductor manufacturing equipment, various inspection and measuring devices, server/storage devices, communication/network devices, broadcasting equipment, medical equipment, etc.

General Specifications

- No. of Contacts: 120 pos. (signal + ground / module)
- Differential Impedance: $100\Omega \pm 15\Omega$ (Tr=100ps [10-90%])
- Crosstalk: 5% max. (Tr=100ps [10-90%])
- Rated Voltage: AC200 Vr.m.s
- Rated Current: 1A
- Operating Temperature: -35 to 85 Deg. C
- Compliant Pin: single insertion force 100N max. / single retention force 10N min. (after test)
- Applicable Board Thickness: 1.4mm to 5.0mm

MJ06 Series Mating Operation



Materials and Finishes

■Pin Connector

Component	Material / Finish	
Insulator	Glass filled PBT (white)	
Contact	Copper alloy / Contact area: Au plating over Ni Terminal area: Au flash plating over Ni (Note) Pin contact and ground contact in common	

■ Socket Connector

-	- Cooker Connector				
	Component	Material / Finish			
	Insulator	Glass filled PBT (white)			
•	Contact	Copper alloy / Contact area: Au plating over Ni Terminal area: Au flash plating over Ni (Note) Socket contact and ground plate in common			

■ Board Through-Hole Specification (for reference)

Board Material	Glass fabric filled laminated epoxy board	
Board Thickness	1.4mm to 5.0mm	
Finished Diameter (Au flash plating over copper)	0.6mm dia. ± 0.05mm	
Copper Plating Thickness	20 μm (min.)	
Prepared Hole Drilled Diameter	0.7mm dia. ± 0.025mm	

Ordering Information

Angle Socket

MJ06-120 F R P

Connection Method: P = Pressfit

Connection: R = Right Angle, S= Straight

Product Configuration: F = Socket Contact,
M = Pin Contact, S = Shroud

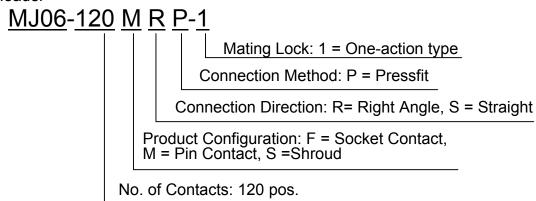
No. of Contacts: 120 pos.

Straight Pin Header

Series

MJ06-120 M S P-A 0-A Product Identification Mark Applicable Board Thickness: 0 = 1.4mm min. (shroud attachment) 3 = t3.5 ± 0.3 (mm) (shroud attachment) 5 = t5.0 ± 0.4 (mm) Insulator Shape: A = for Angle socket Connection Method: P = Press-fit Connection Direction: R= Right Angle, S = Straight Product Configuration: F = Socket Contact, M = Pin Contact, S = Shroud

Angle Pin Header



Shroud

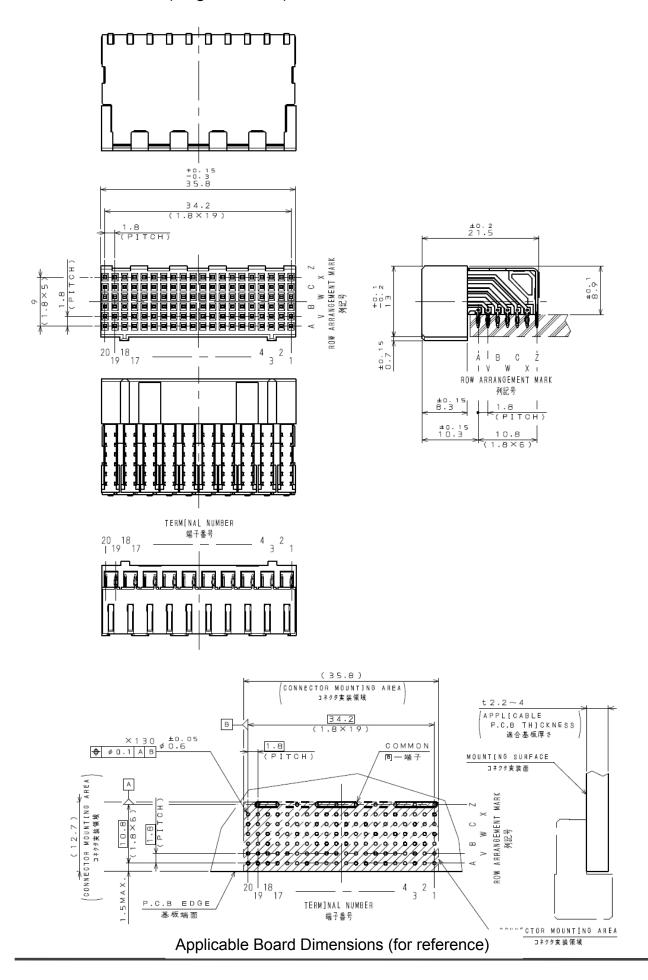
MJ06-120 S

Product Configuration: F = Socket Contact, M = Pin Contact, S = Shroud

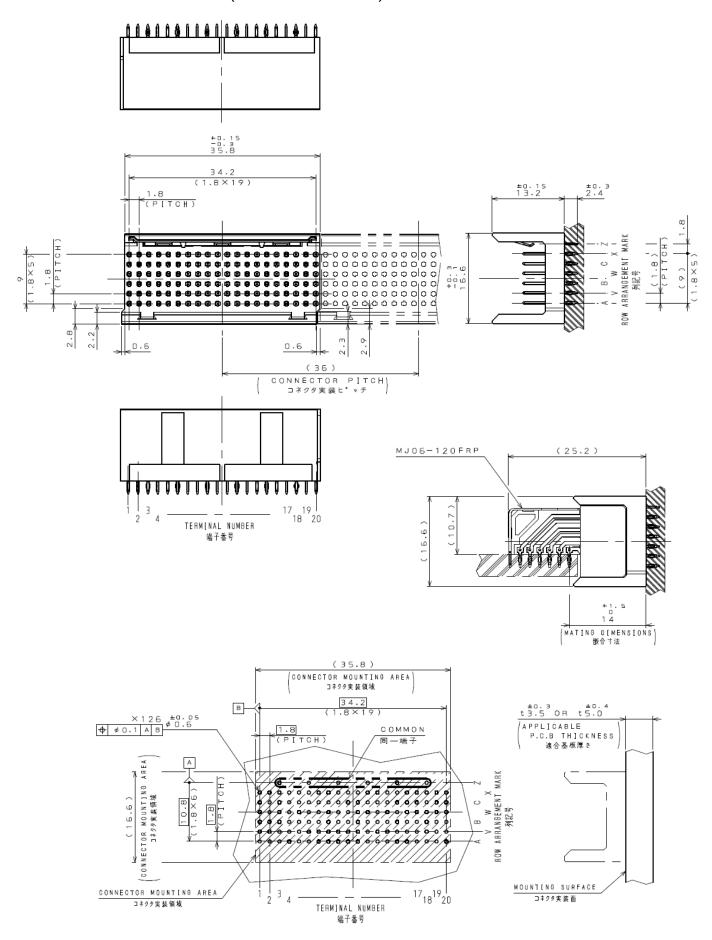
No. of Contacts: 120 pos.

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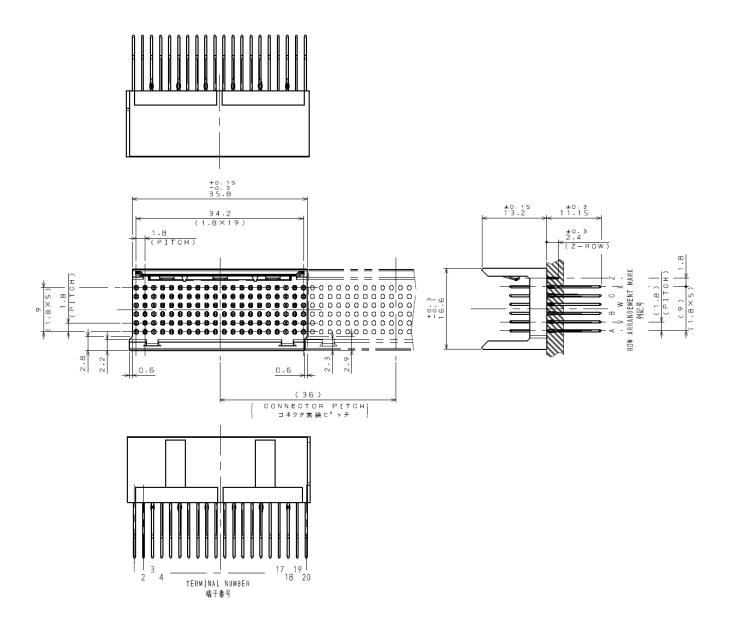
◆MJ06-120FRP (Angle Socket)

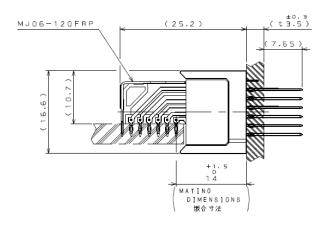


◆MJ06-120MSP-A0-A (Pin Header Short)

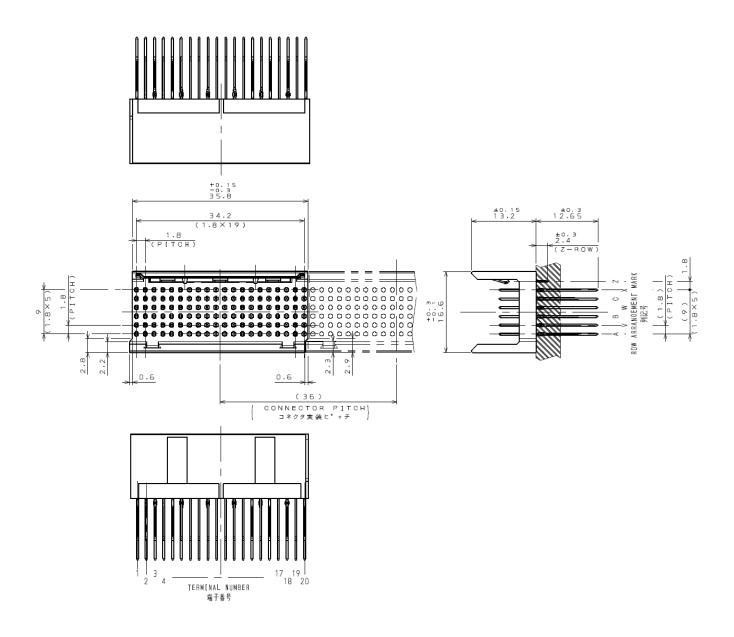


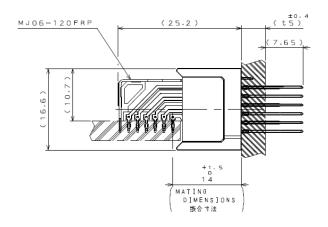
◆MJ06-120MSP-A3-A (Pin Header Long)



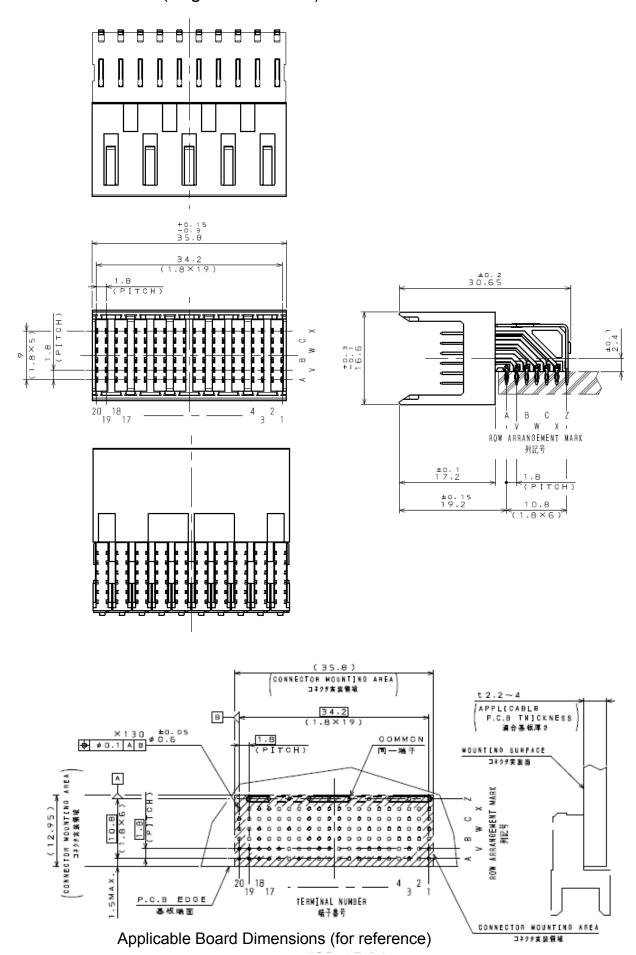


◆MJ06-120MSP-A5-A (Pin Header Long)

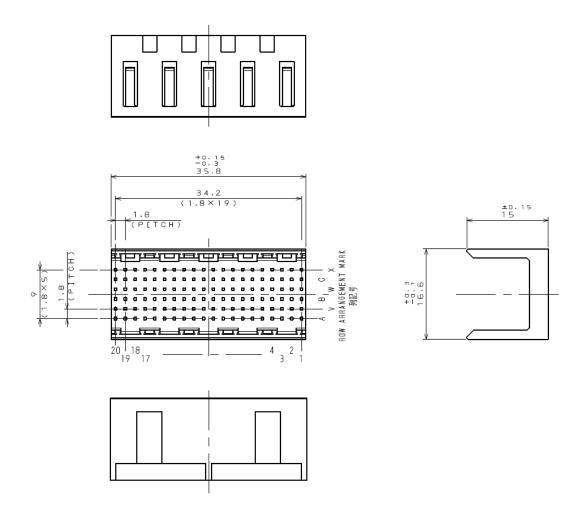


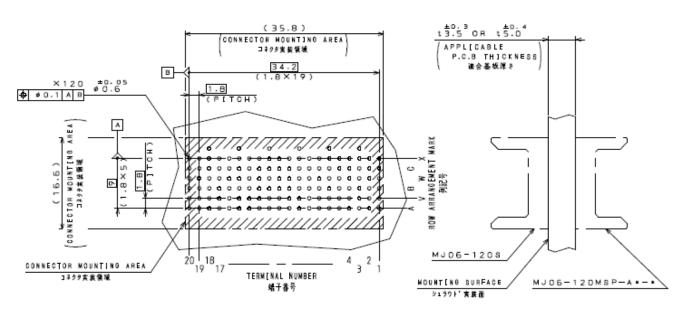


◆MJ06-120MRP-1 (Angle Pin Header)



♦MJ06-120S (Shroud)





Applicable Board Dimensions (for reference)

SJ Drawing

Configuration	Part Number	SJ Drawing No.	Specification
Angle Socket	MJ06-120FRP	SJ108443	JACS-10524
Straight	MJ06-120MSP-A0-A	SJ108444	
Pin Header	MJ06-120MSP-A3-A	SJ108446	
	MJ06-120MSP-A5-A	SJ108447	
Angle Pin Header	MJ06-120MRP-1	SJ108452	
Shroud	MJ06-120S	SJ108448	

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 **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

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

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MJ06-004FSH MJ06-004FSH-SHL-500 MJ06-012C MJ06-012C-R MJ06-012C-SHL MJ06-024S MJ06-048S

MJ06-120FRP MJ06-120MRP-1 MJ06-120MRP-2 MJ06-120MSP-A0-A MJ06-120MSP-A3-A MJ06-120MSP-A5-A

MJ06-120MSP-A5-C MJ06-120MSP-A5-D MJ06-120MSP-A5-E MJ06-120MSP-A5-F MJ06-120MSP-A5-G MJ06-120MSP-