

NEW



General Purpose Gigabit Transmission
Metric System Connector

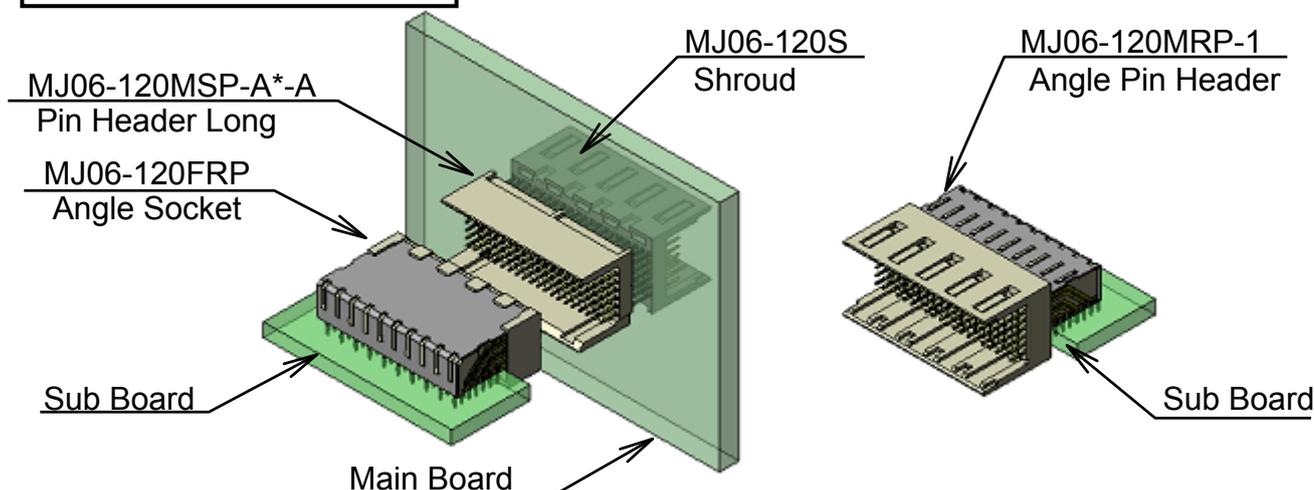
CONNECTOR

MB-0206-1

August 2010

MJ06 Series

RoHS Compliant



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.)

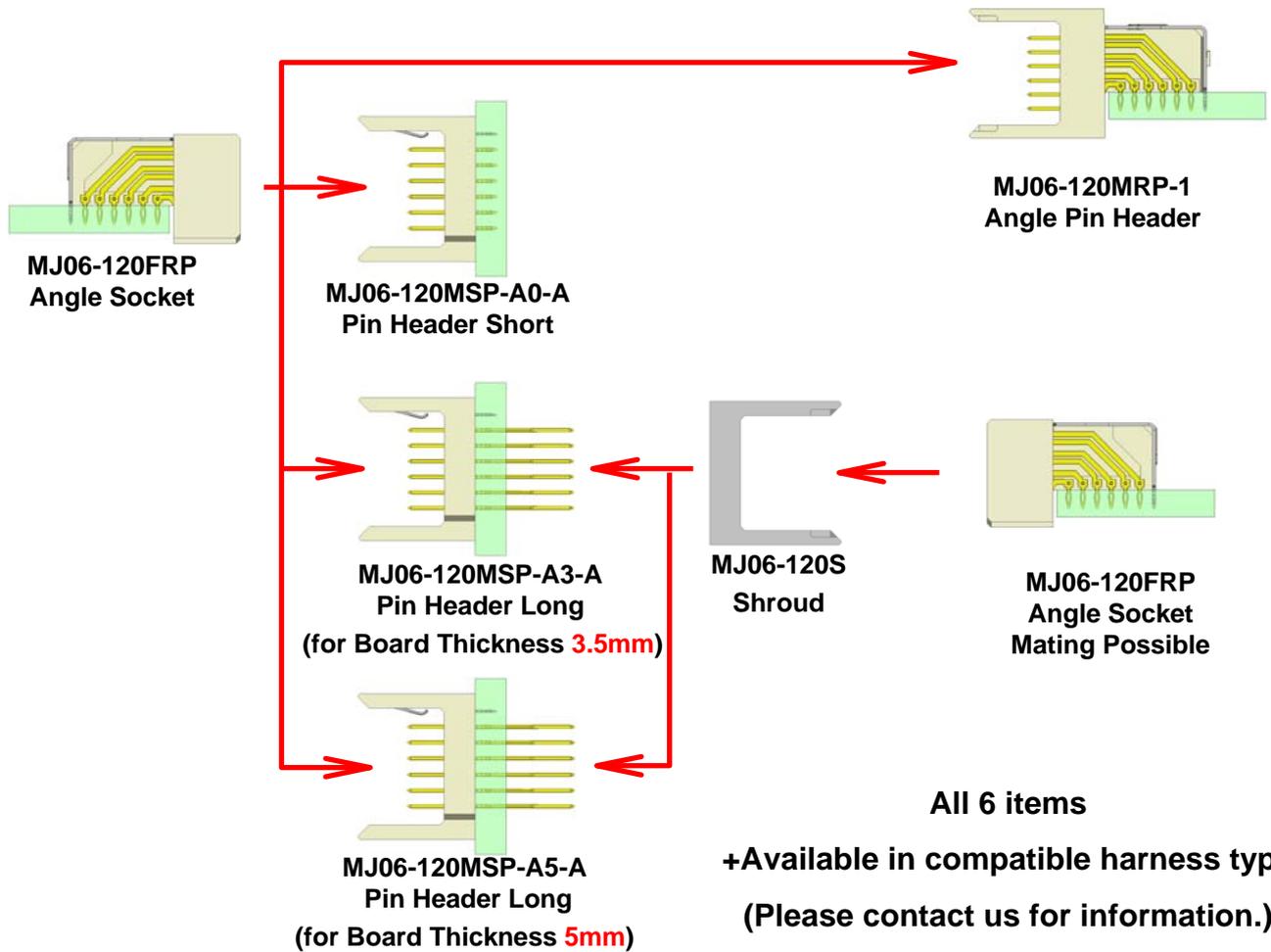
Applications

- 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: $100\Omega \pm 15\Omega$ ($T_r=100ps$ [10-90%])
- Crosstalk: 5% max. ($T_r=100ps$ [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

| 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 |

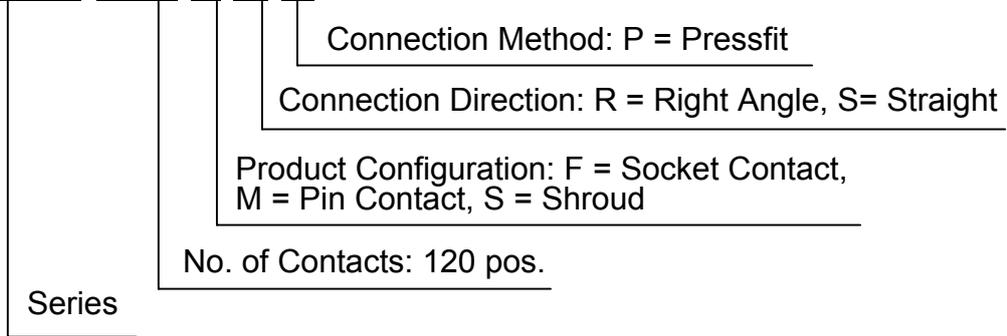
Board Through-Hole Specification (for reference)

| | |
|--|---|
| 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

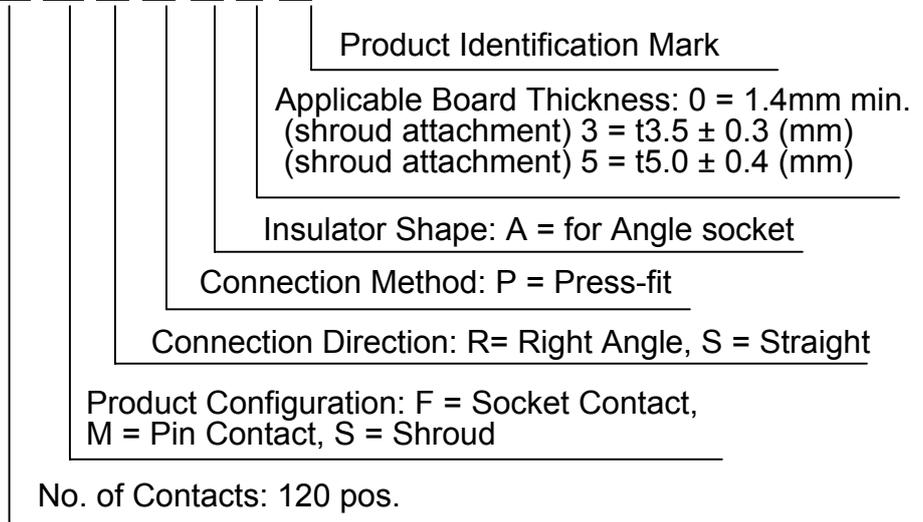
Angle Socket

MJ06-120 F R P



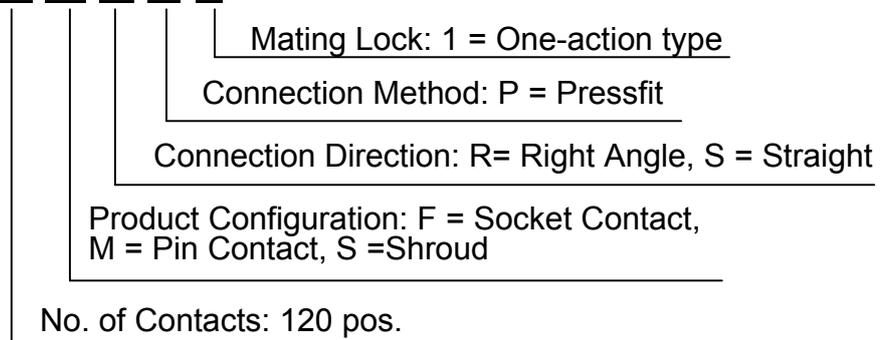
Straight Pin Header

MJ06-120 M S P-A 0-A



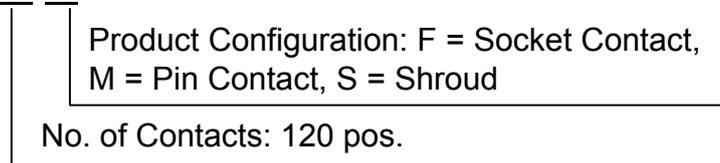
Angle Pin Header

MJ06-120 M R P-1

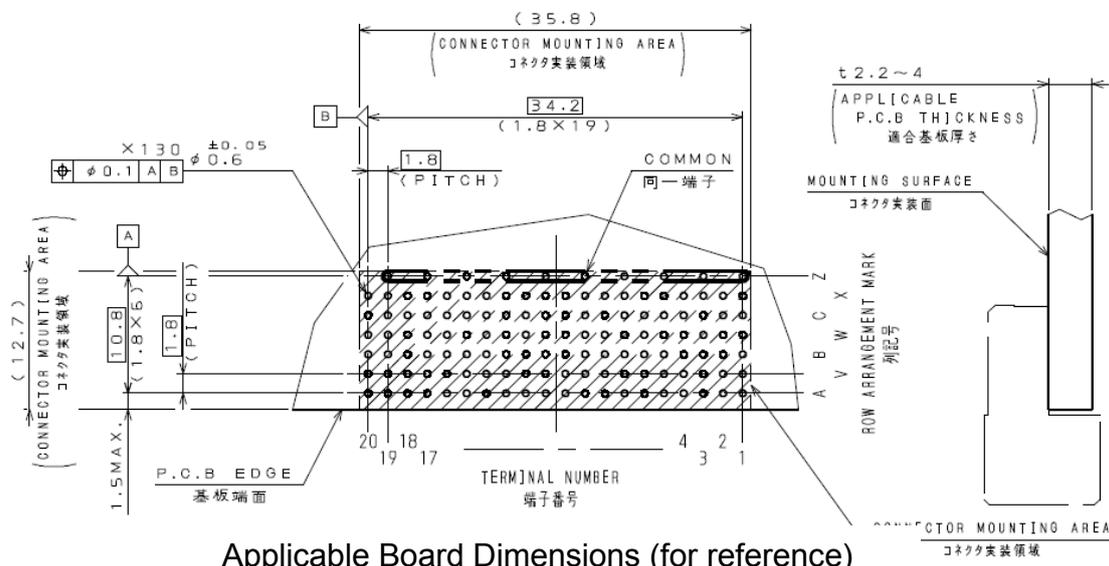
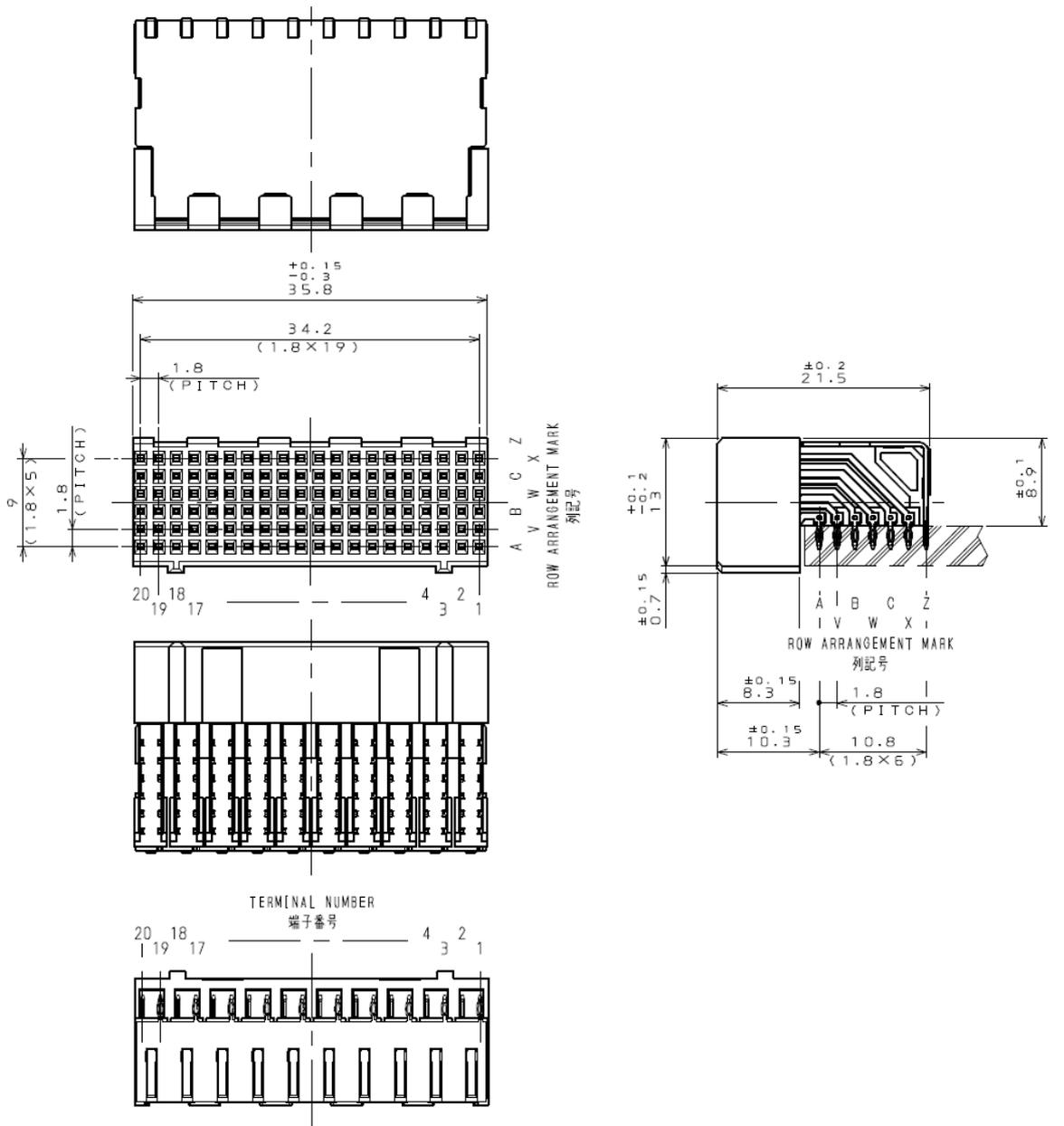


Shroud

MJ06-120 S

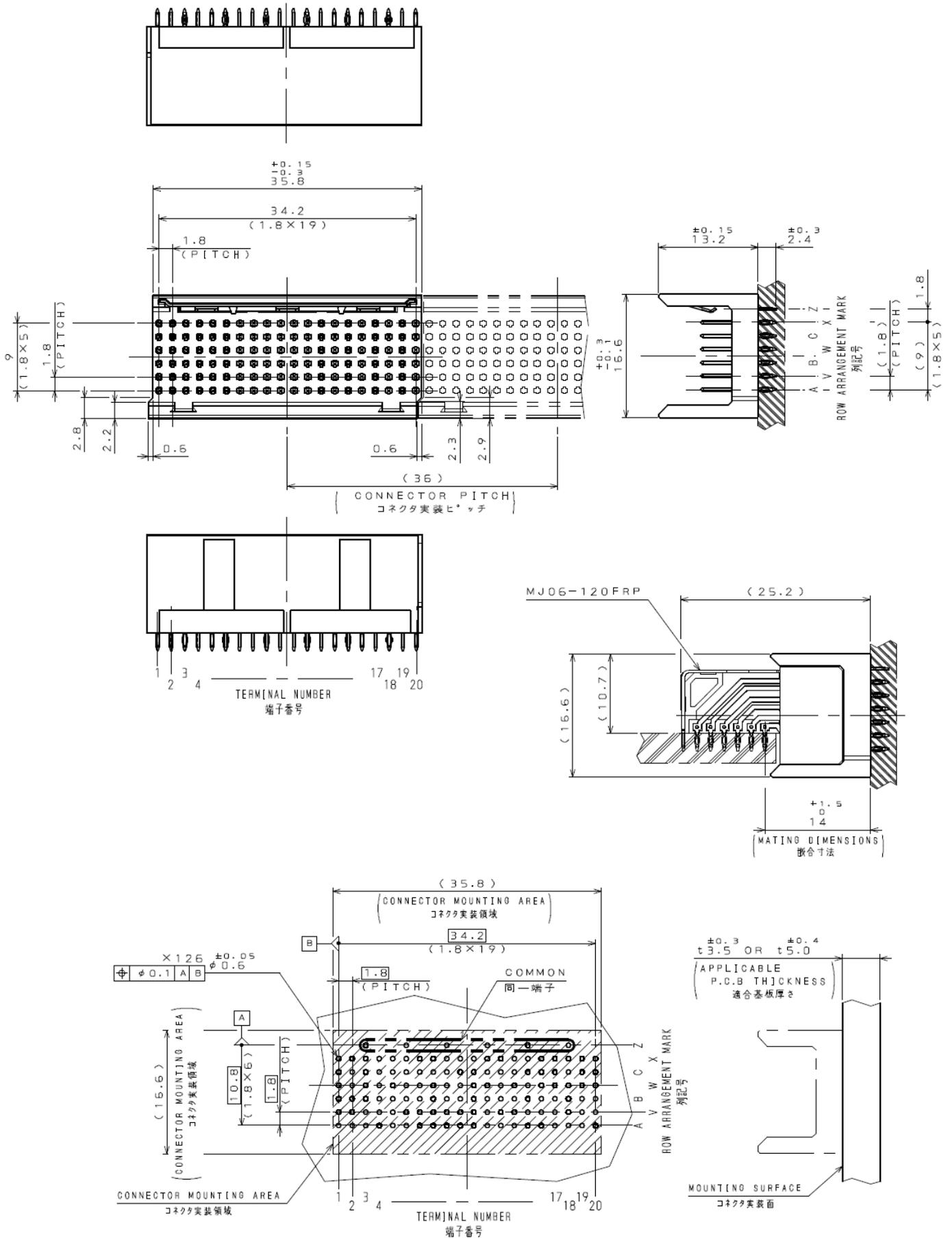


◆MJ06-120FRP (Angle Socket)

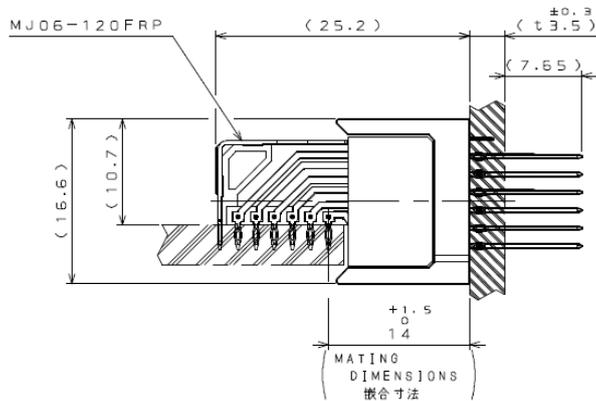
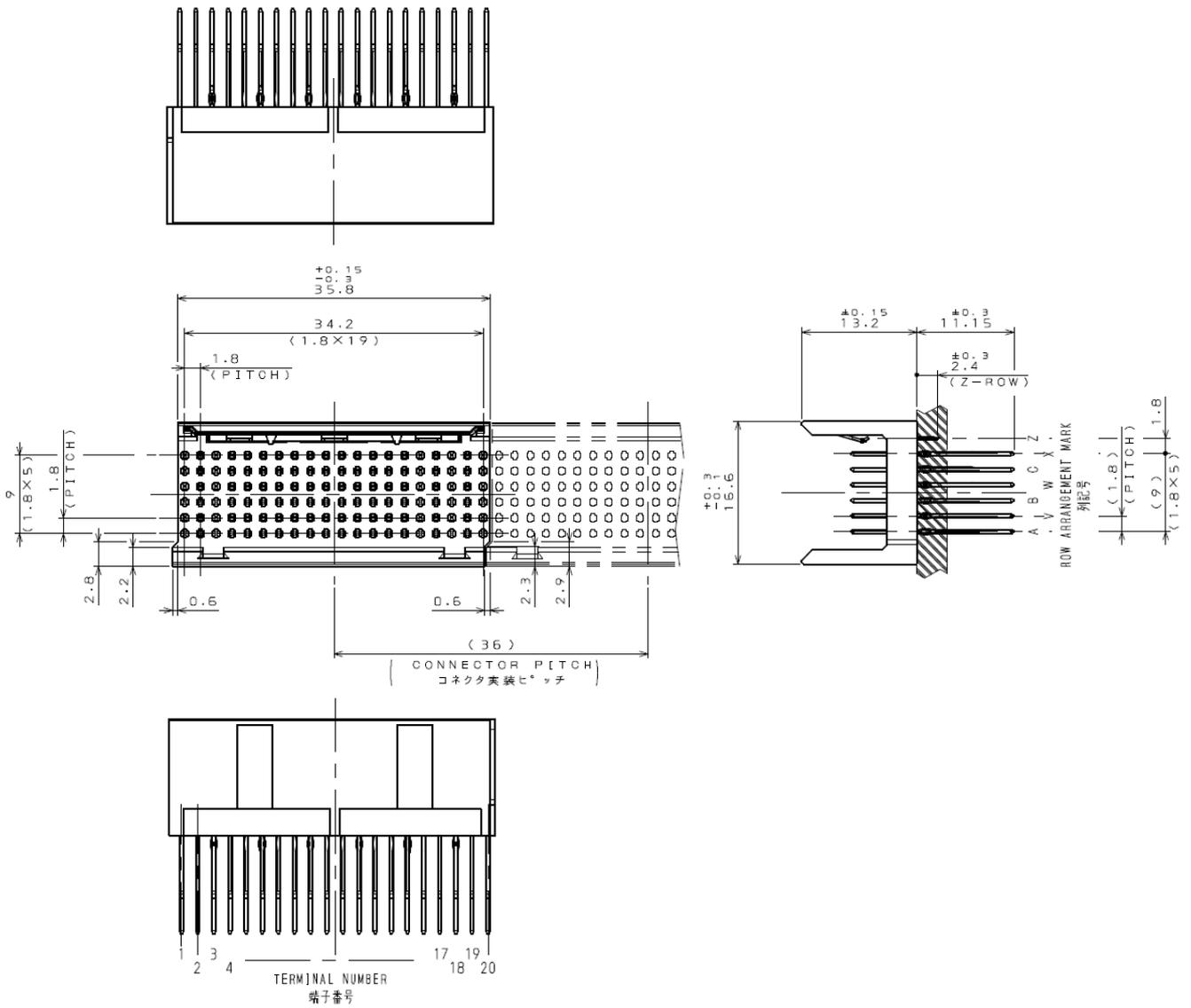


Applicable Board Dimensions (for reference)

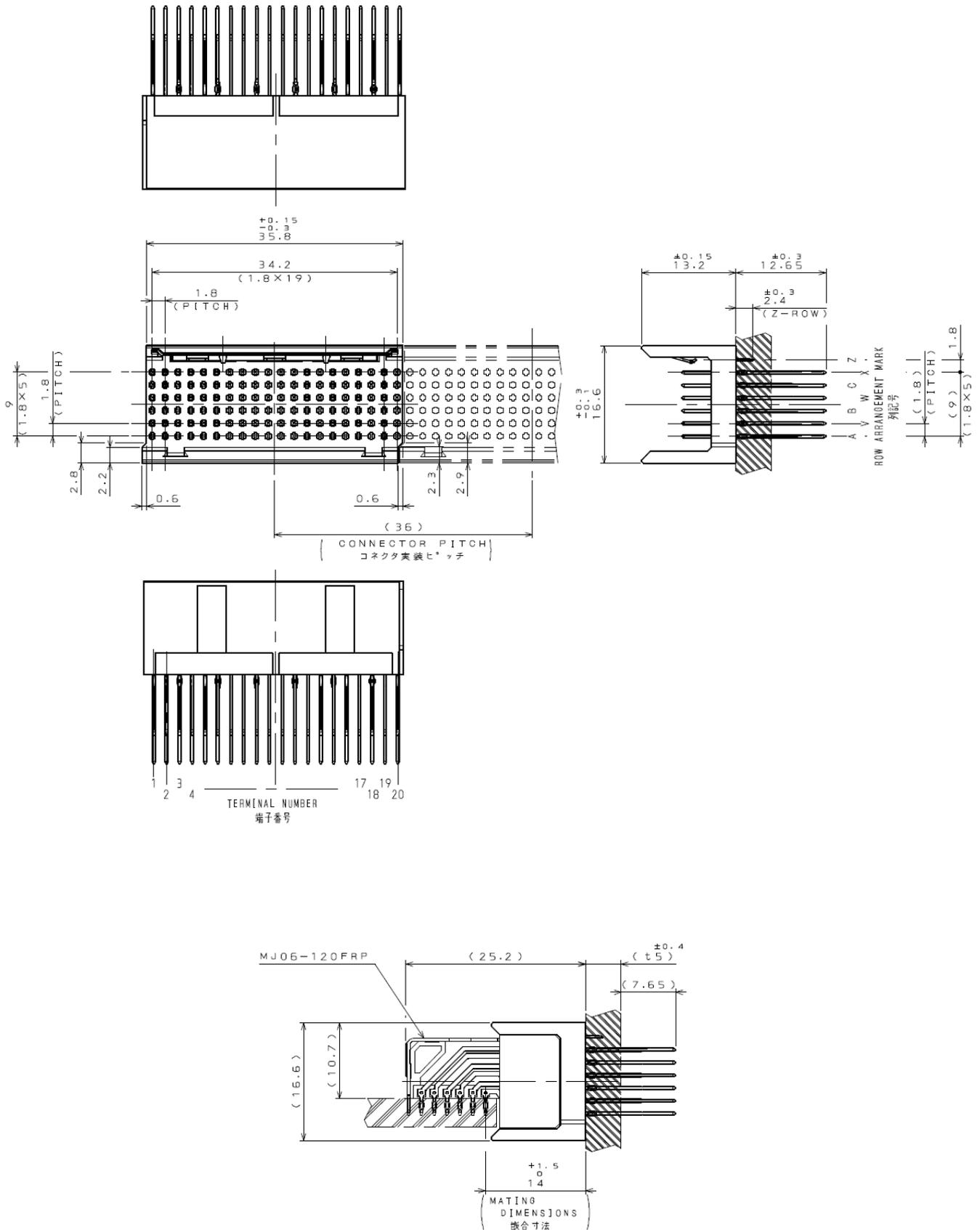
◆MJ06-120MSP-A0-A (Pin Header Short)



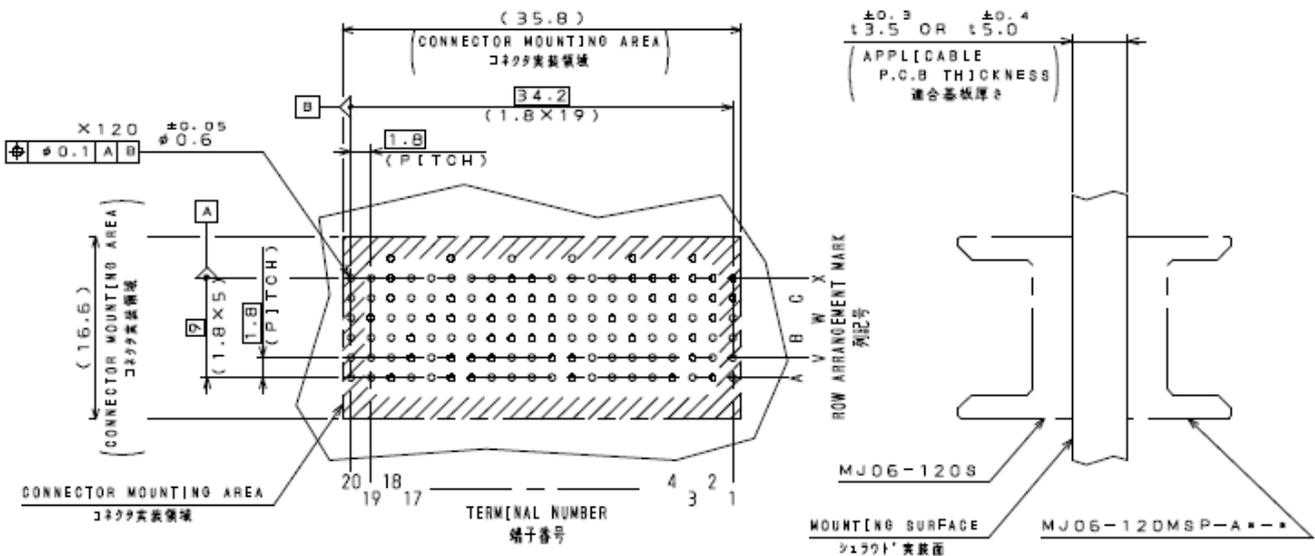
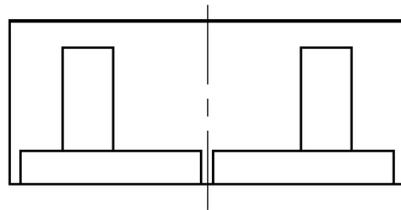
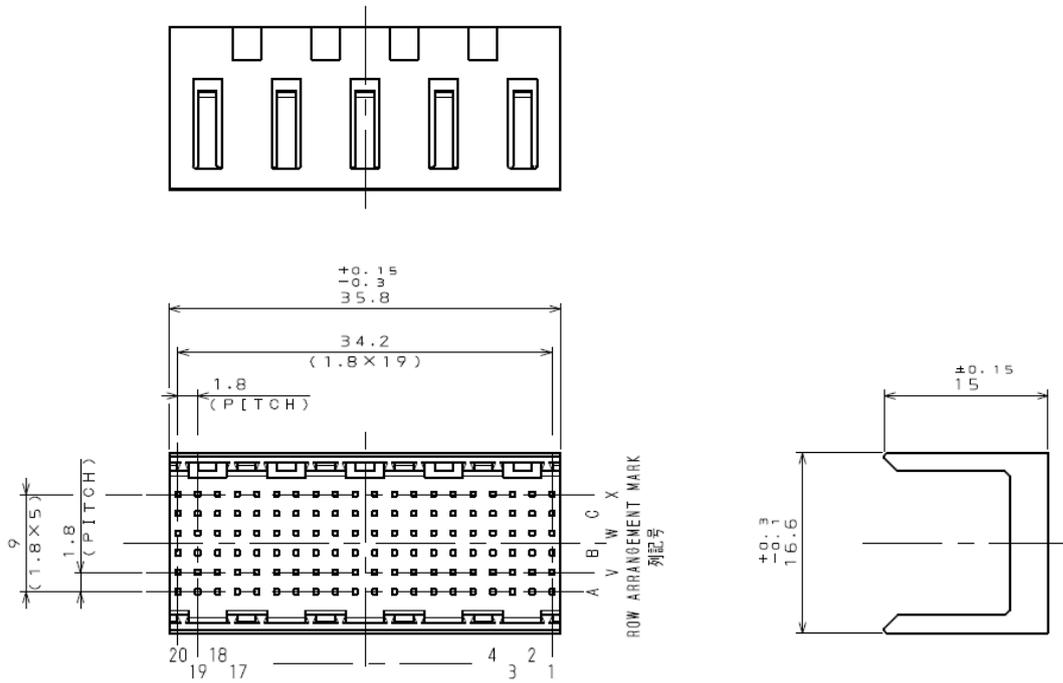
◆MJ06-120MSP-A3-A (Pin Header Long)



◆MJ06-120MSP-A5-A (Pin Header Long)



◆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 Pin Header | MJ06-120MSP-A0-A | SJ108444 | |
| | MJ06-120MSP-A3-A | SJ108446 | |
| | MJ06-120MSP-A5-A | SJ108447 | |
| Angle Pin Header | MJ06-120MRP-1 | SJ108452 | |
| Shroud | MJ06-120S | SJ108448 | |

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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