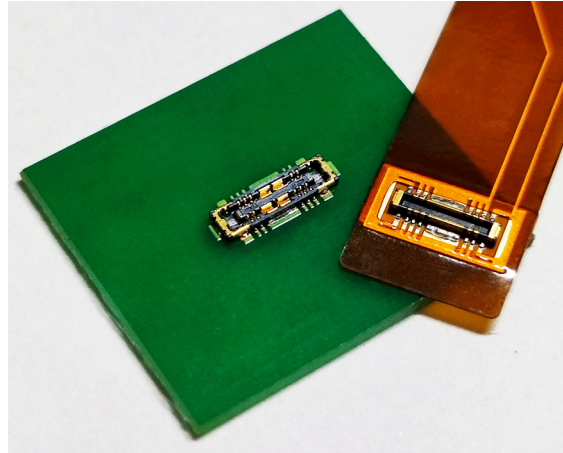


0.35mm pitch Board to Board(FPC) Connector

FB35AW6 Series - High Power Hybrid Type DDK Ltd.



OUTLINE

FB35AW6 is a 0.35mm pitch board to board(FPC) connector with a stacking height of 0.6mm and a depth of 1.95mm. This connector has a hybrid contact arrangement with signal and high power contact.

FEATURE

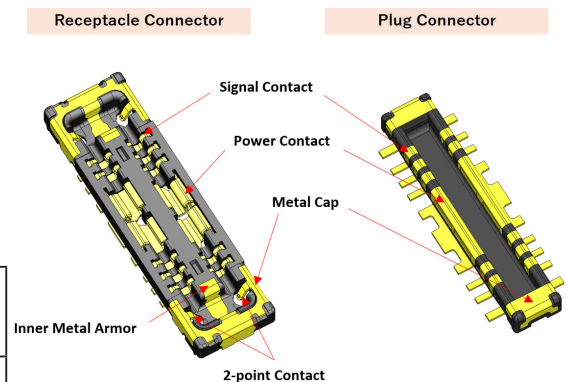
- With power contacts capable of supplying 7A current
- Stacking height : 0.6mm, Width:1.95mm
- Metal-cap structure prevents from the damage by mis-alignment mating.
- Inner metal armor structure further increases strength.
- Metal cap serve with up to 2.5A current available.
- High reliability with two point contact structure
- Good click feel when connector is mated and high unmating force.

APPLICATIONS

Smartphone, Smartwatch, other compact portable devices

SPECIFICATIONS

Number of contacts	Signal Contact : 10,14,18,20,22 pin Power Contact : 2 pin Metal-Cap : 2 pin
Rated Current	Signal Contact : 0.4A / pin Power Contact : 7.0A / pin Metal-Cap : 2.5A / pin
Rated Voltage	AC 30V (r.m.s.) / DC 30V
Contact Resistance	Signal Contact : 30m Ω Max. Power Contact : 20m Ω Max. Metal-Cap : 20m Ω Max.
Insulation Resistance	100M Ω min. at 200V DC
Dielectric Withstand Voltage	AC 200V (r.m.s.) / 1 minute
Operating Temperature	-40°C ~ +85°C



MATERIAL/FINISH

Item	Material / Finish
Signal Contact	Copper Alloy / Au over Ni Plating
Power Contact	Copper Alloy / Au over Ni Plating
Metal-Cap	Copper Alloy / Au over Ni Plating
Housing	LCP Resin (UL94V-0) / Black



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0.35mm pitch Board to Board(FPC) Connector - High Power Hybrid Type

Plug Connector

FB35AW 6 - P X XX 2CHP-3A

Series Name
FB35AW : 0.35mm pitch 1.95mm depth
Board to Board Connector

Mating Height
6 : 0.6 mm

Mating style
P : Plug

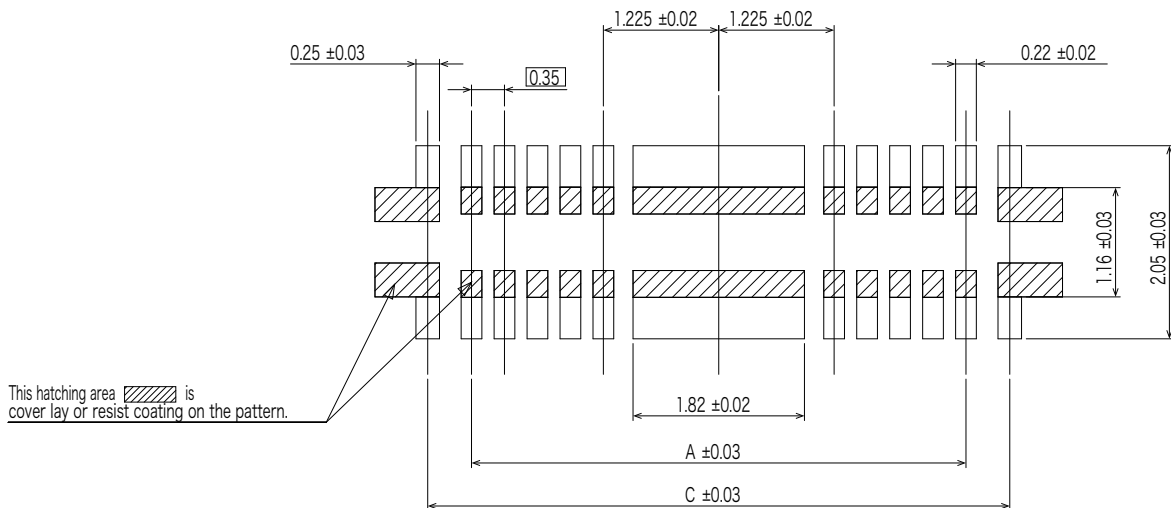
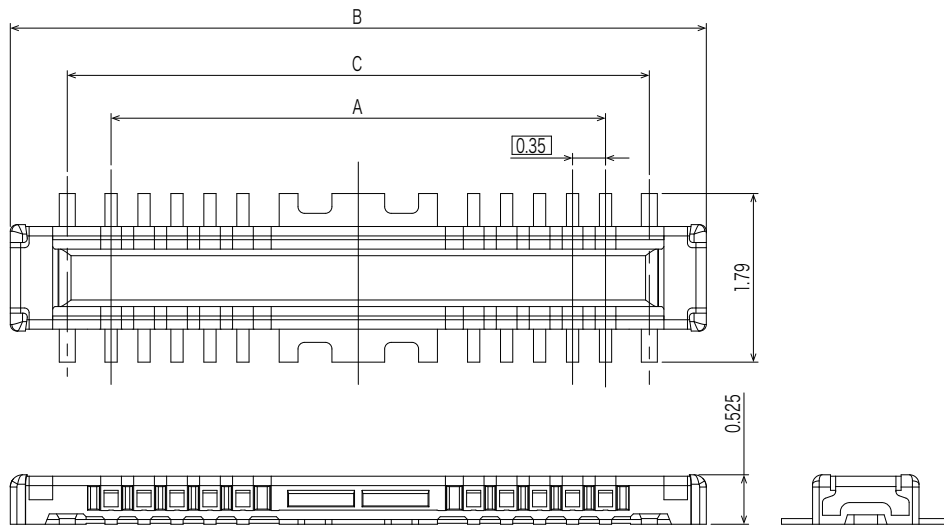
Contact Plating Specification
3 : Au(Flash) over Ni Plating

Number of High Contact and location
2CHP : 2pin at center

Number of Signal Contact
See Table-1 and Table-2

コネクタ形状
A : [total pin number/2] is even number
B : [total pin number/2] is odd number

[total pin number/2] is even number



This hatching area is cover lay or resist coating on the pattern.

Reference P.C.B Layout

Table-1

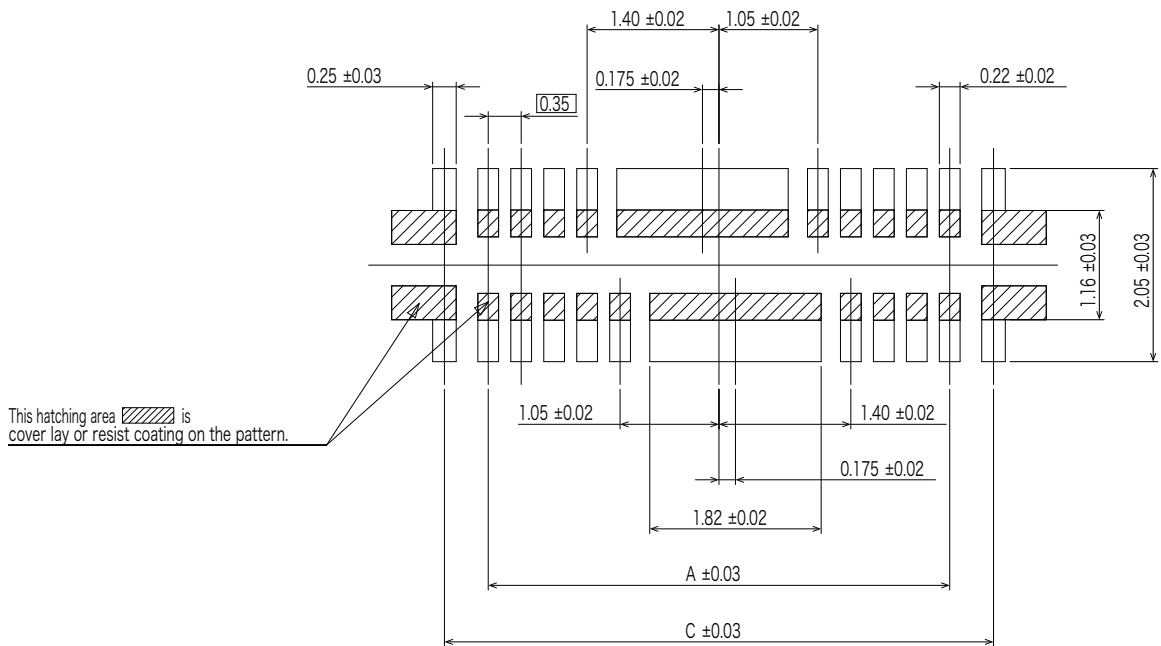
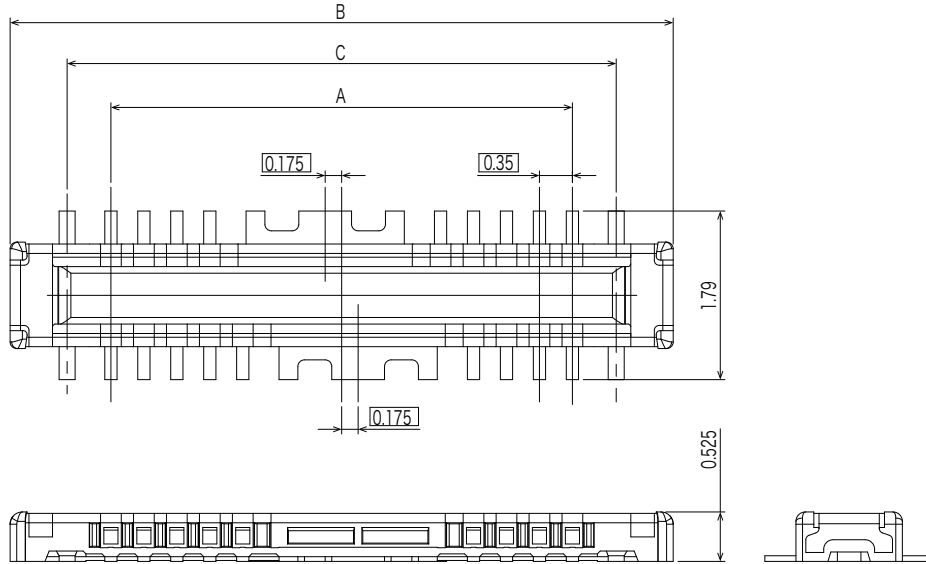
Part Number	Number of Contact	A	B	C
FB35AW6-PA20-2CHP-3A	20	5.25	7.39	6.18

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▶ 0.35mm pitch Board to Board(FPC) Connector - High Power Hybrid Type

Plug Connector

[total pin number/2] is odd number



Reference P.C.B Layout

Table-2

Part Number	Number of Contact	A	B	C
FB35AW6-PB10-2CHP-3A	10	3.50	5.64	4.43
FB35AW6-PB14-2CHP-3A	14	4.20	6.34	5.13
FB35AW6-PB18-2CHP-3A	18	4.90	7.04	5.83
FB35AW6-PB22-2CHP-3A	22	5.60	7.74	6.53

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▶ 0.35mm pitch Board to Board(FPC) Connector - High Power Hybrid Type

Receptacle Connector

FB35AW 6 - R X XX 2CHP-3A

Series Name
FB35AW : 0.35mm pitch 1.95mm depth
Board to Board Connector

Mating Height
6 : 0.6 mm

Mating style
R : Receptacle

Contact Plating Specification
3 : Au(Flash) over Ni Plating

Number of High Contact and location
2CHP : 2pin at center

Number of Signal Contact
See Table-3 and Table-4

コネクタ形状
A : [total pin number/2] is even number
B : [total pin number/2] is odd number

[total pin number/2] is even number

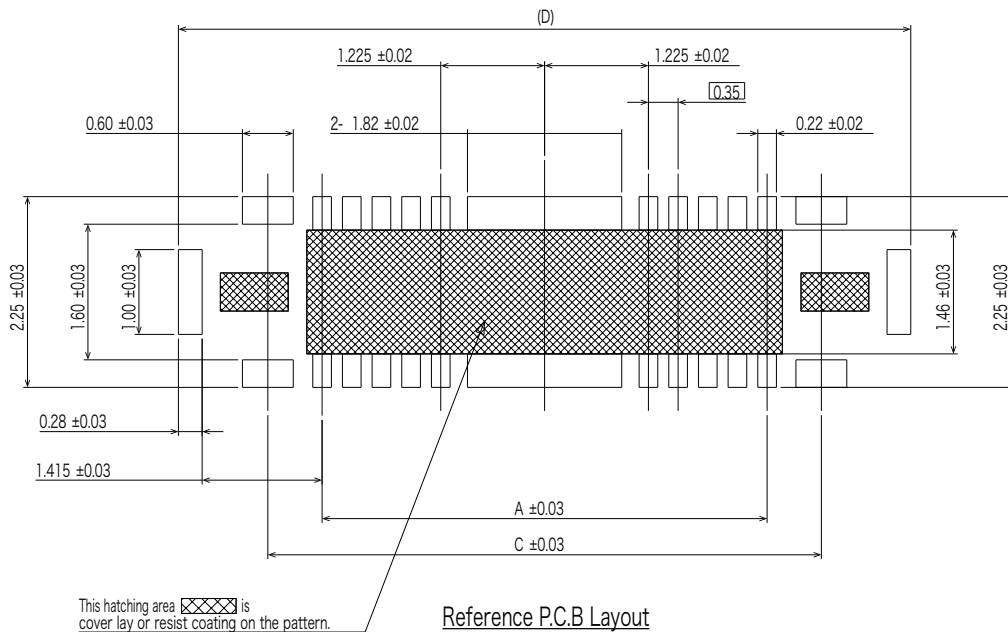
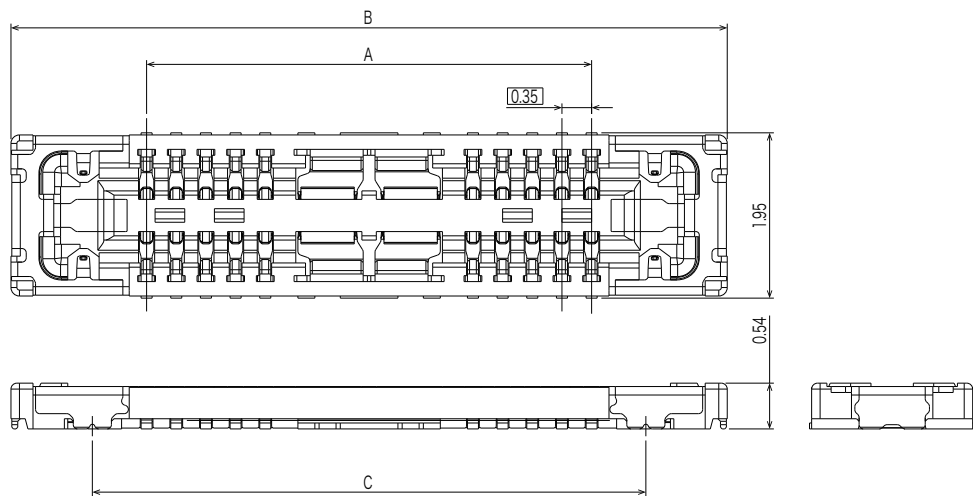


Table-3

Part Number	Number of Contact	A	B	C	D
FB35AW6-RA20-2CHP-3A	20	5.25	8.45	6.53	8.64

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▶ 0.35mm pitch Board to Board(FPC) Connector - High Power Hybrid Type

Receptacle Connector

[total pin number/2] is odd number

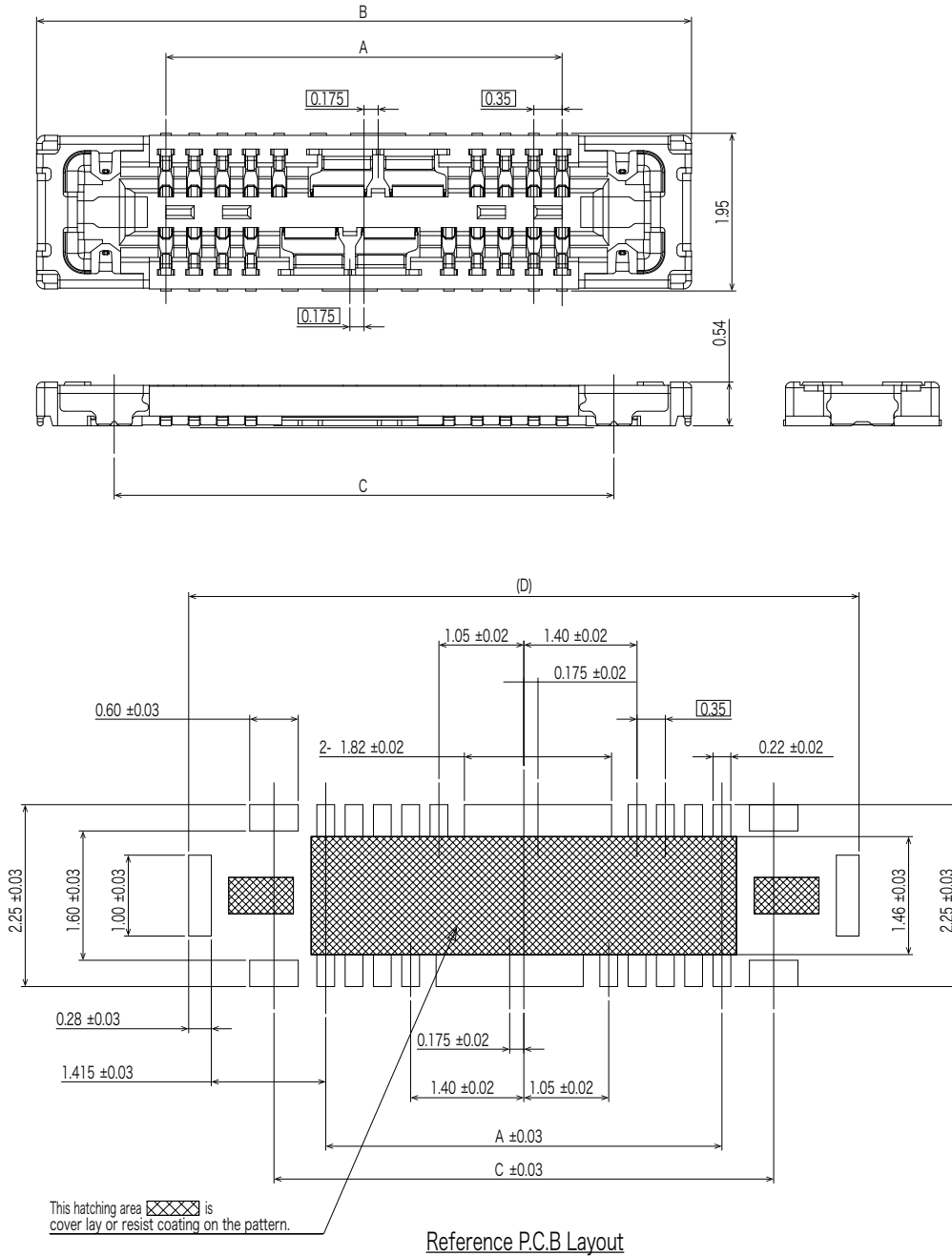


Table-4

Part Number	Number of Contact	A	B	C	D
FB35AW6-RB10-2CHP-3A	10	3.50	6.70	4.78	6.89
FB35AW6-RB14-2CHP-3A	14	4.20	7.40	5.48	7.59
FB35AW6-RB18-2CHP-3A	18	4.90	8.10	6.18	8.29
FB35AW6-RB22-2CHP-3A	22	5.60	8.80	6.88	8.99

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