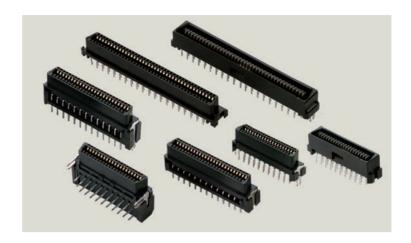


Board to Board Half Pitch Connector

DHB Series





FEATURE

- 1. Two different length contact tails are designed to insert into PCB holes easily.
- 2. The board lock pin type and non board lock type which has each 4 kinked contact tails at both ends to fasten on the PCB temporarily are available.
- 3. A variety of stacking heights from 10mm to 20mm, and key slot to prevent diagonal inserting are available on various usages.
- 4. DHB plug connectors can be mated with the flat cable connector DHD series connectors.
- 5. Lead Free

SPECIFICATIONS

Rated Voltage	250V AC (r.m.s.)
Rated Current	0.5A / Contact
Dielectric Withstanding Voltage	500V AC (r.m.s.) / 1 minute
Insulation Resistance	500M Ω min. at 500V DC
Contact Resistance	35m Ω max.



MATERIAL/FINISH

ltem	Material / Finish
Contact	Copper Alloy / Contact Area : Au over Ni Plating Tail Area : Sn-Ag over Ni Plating
Block or Housing	PBT Resin (UL94V-0) / Black
Locator	PBT Resin (UL94V-0) / Black
Board Lock Pin	Copper Alloy / Sn-Ag over Ni Plating
Holding Pin(Stacking Type)	Copper Alloy / Ni Plating

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Instruction of Handling

《Washing Connector》

- Organic Solvent Washing IPA (Isopropyl Alchol)
- Water-base Cleaning Agent Washing
 When you use the water-base cleaning agent,
 please choose the washing chemicals accoding to the application table
 which is informed by chemical manufacturer.
 And please be careful to not leave the connector with water left.
- Attention of washing
 If the flux and washing chemicals are left on the connector,
 it may cause the deterioration of the electrical performance.

 Please rinse them out completely.

《Attention of handling connector》

1. Allowable gap of mating

The effective contact length of this connector is 1.4mm (min.). The allowable gap between plug and receptacle is 0.5mm(max.)

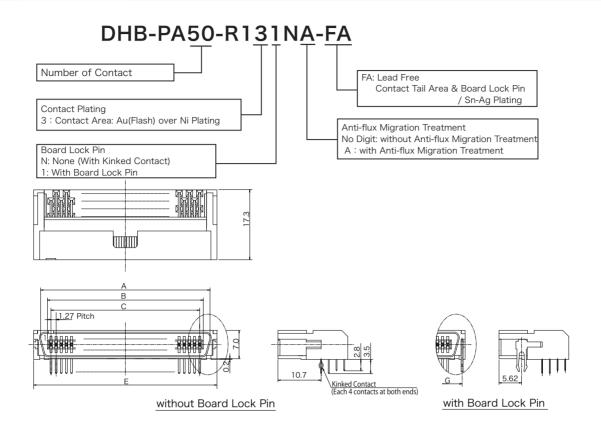
- 2. This connector does not have lock mechanism on PCB. It can not be fastened on PCB by this connector only. Please fasten this connector on the PCB in other methods.
- 3. Attention of soldering
 - While you solder this connector, the flux may be sticked to the contact. Since it may cause contact failure, please wash the connector by above methods.
 - 2) When this connector is mounted on the edge of PCB, the flux may be sticked on the interface.

Please prevent the interface from the flux by taping the interface.

- 4. Anti-flux migration treatment
 - We can offer the anti-flux migration treatment to reduce the flux migration to the contact.
- 5. The torsional insertion or withdrawal may be cause damage of connector.

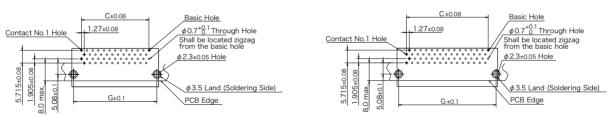
Specifications and/or dimensions in this catalogue are subject to change without notice. Your catalogue checking the latest speifications with our drawings would be highly appreciated.

▶ Right Angle Plug Connector



30,34,50 Contacts

20,40,68,80,100,120 Contacts

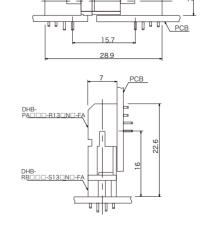


(When the connector is without board lock pins, ϕ 2.3 through hole and dimension G are not necessary.) Recommended PCB Mounting Dimensions (Connector Mounting Side)

Applicable PCB Thickness : $1.6^{+0.19}_{-0.10}$ (with Board Lock Pin) : 1.6 ± 0.19 (without Board Lock Pin)

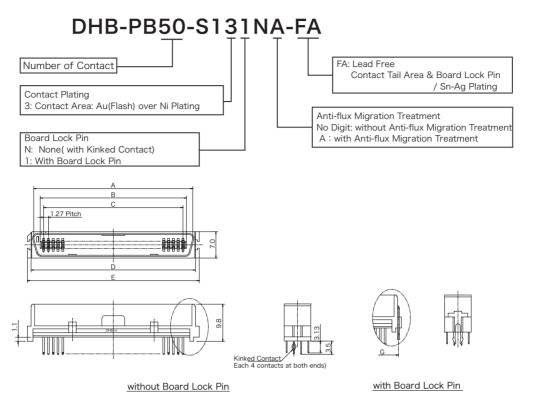
Number of		-		_	0
Contact	A	В	С	E	G
20	16.58	13.23	9×1.27=11.43	20.03	18.54
30	22.93	19.58	14×1.27=17.78	26.38	24.89
34	25.47	22.12	16×1.27=20.32	28.92	27.43
40	29.28	25.93	19×1.27=24.13	32.73	31.24
50	35.63	32.28	24×1.27=30.48	39.08	37.59
68	47.06	43.71	33×1.27=41.91	50.51	49.02
80	54.68	51.33	39×1.27=49.53	58.13	56.64
100	67.38	64.03	49×1.27=62.23	70.83	69.34
120	80.08	76.73	59×1.27=74.93	83.53	82.04

Mating Dimensions



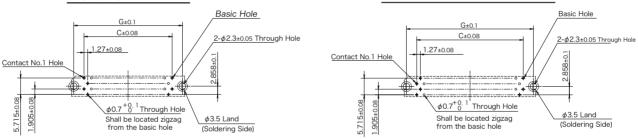
Specifications and/or dimensions in this catalogue are subject to change without notice. Your catalogue checking the latest speifications with our drawings would be highly appreciated.

Straight Plug Connector



26,30,34,50 Contacts

20,40,68,80,100,120 Contacts

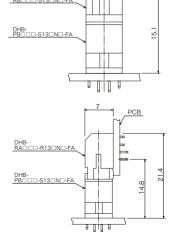


(When the connector is without board lock pins, ϕ 2.3 through hole and dimension G are not necessary.) Recommended PCB Mounting Dimensions (Connector Mounting Side)

Applicable PCB Thickness: 1.6 -0.10 (with Board Lock Pin) :1.6±0.19 (without Board Lock Pin)

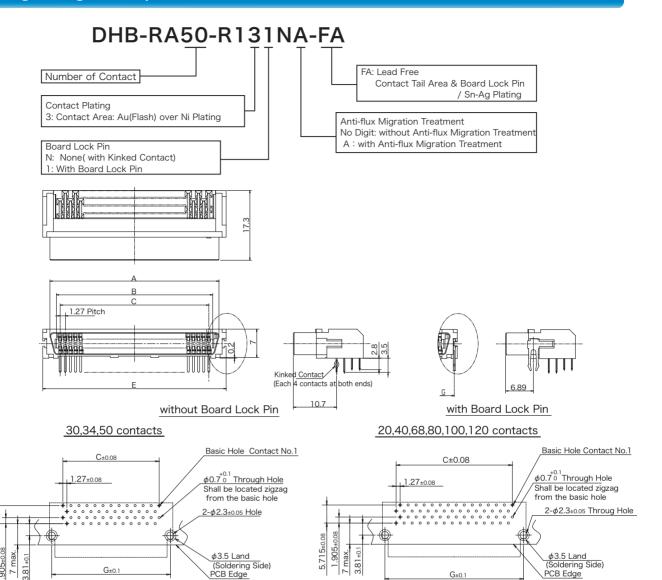
Number of Contact	А	В	С	D	E	G
20	16.58	13.23	9×1.27=11.43	18.04	20.03	18.54
26	20.39	17.04	12×1.27=15.24	21.85	23.84	22.35
30	22.93	19.58	14×1.27=17.78	24.39	26.38	24.89
34	25.47	22.12	16×1.27=20.32	26.93	28.92	27.43
40	29.28	25.93	19×1.27=24.13	30.74	32.73	31.24
50	35.63	32.28	24×1.27=30.48	37.09	39.08	37.59
68	47.06	43.71	33×1.27=41.91	48.52	50.51	49.02
80	54.68	51.33	39×1.27=49.53	56.14	58.13	56.64
100	67.38	64.03	49×1.27=62.23	68.84	70.83	69.34
120	80.08	76.73	59×1.27=74.93	81.54	83.53	82.04

Mating Dimensions



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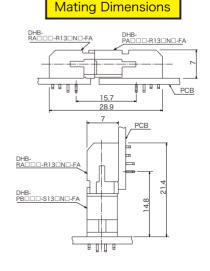
Right Angle Receptacle Connector



(When the connector is without board lock pins, ϕ 2.3 through hole and dimension G are not necessary.) Recommended PCB Mounting Dimensions (Connector Mounting Side)

Applicable PCB Thickness : 1.6 ^{-0.19} (with Board Lock Pin) :1.6±0.19 (without Board Lock Pin)

Number of В С Ε G Contact 13.33 16.48 9×1.27=11.43 20.03 18.54 20 30 22.83 19.68 14×1.27=17.78 26.38 24.89 34 25.37 22.22 16×1.27=20.32 28.92 27.43 29.18 26.03 19×1.27=24.13 32.73 31.24 40 37.59 24×1.27=30.48 50 35.53 32.38 39.08 68 46.96 43.81 33×1.27=41.91 50.51 49.02 56.64 54.58 51.43 39×1.27=49.53 58.13 80 100 67.28 64.13 49×1.27=62.23 70.83 69.34 120 79.98 76.83 59×1.27=74.93 83.53 82.04



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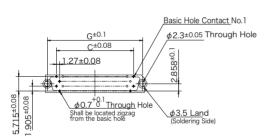
Straight Receptacle Connector

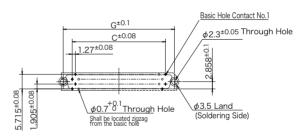
Kinked Contact (Each 4 contacts at both ends)

without Board Lock Pin

20,40,68,80,100,120 Contacts

30,34,50 Contacts



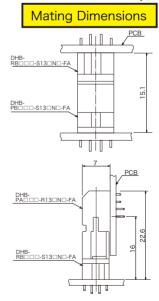


(When the connector is without board lock pins, ϕ 2.3 through hole and dimension G are not necessary.)

Recommended PCB Mounting Dimensions (Connector Mounting Side)

Applicable PCB Thickness: 1.6^{-0.19} (with Board Lock Pin)
:1.6±0.19 (without Board Lock Pin)

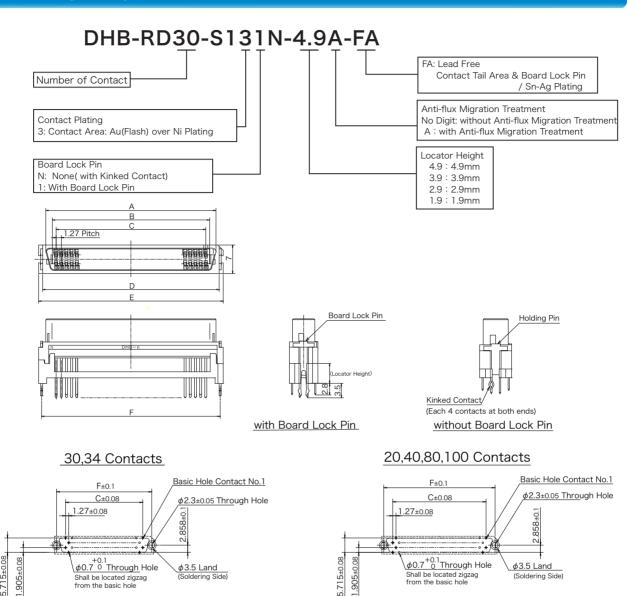
Number of Contact	А	В	С	D	Е	G
20	16.48	13.33	9×1.27=11.43	18.04	20.03	18.54
30	22.83	19.68	14×1.27=17.78	24.39	26.38	24.89
34	25.37	22.22	16×1.27=20.32	26.93	28.92	27.43
40	29.18	26.03	19×1.27=24.13	30.74	32.73	31.24
50	35.53	32.38	24×1.27=30.48	37.09	39.08	37.59
68	46.96	43.81	33×1.27=41.91	48.52	50.51	49.02
80	54.58	51.43	39×1.27=49.53	56.14	58.13	56.64
100	67.28	64.13	49×1.27=62.23	68.84	70.83	69.34
120	79.98	76.83	59×1.27=74.93	81.54	83.53	82.04



with Board Lock Pin

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Stacking Receptacle Connector



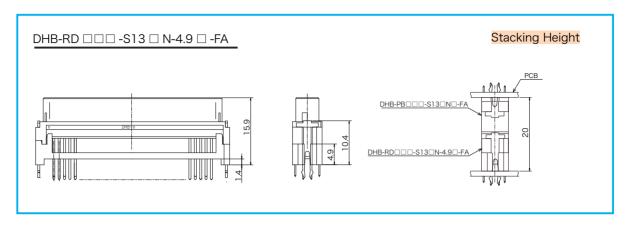
(When the connector is without board lock pins, ϕ 2.3 through hole and dimension F are not necessary.) Recommended PCB Mounting Dimensions (Connector Mounting Side)

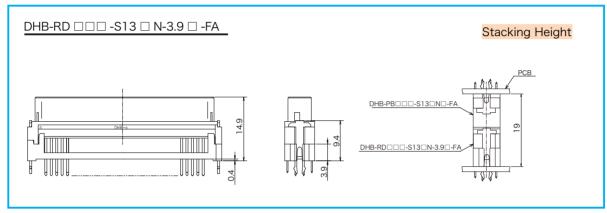
> Applicable PCB Thickness: 1.6-0.19 (with Board Lock Pin) : 1.6±0.19 (without Board Lock Pin)

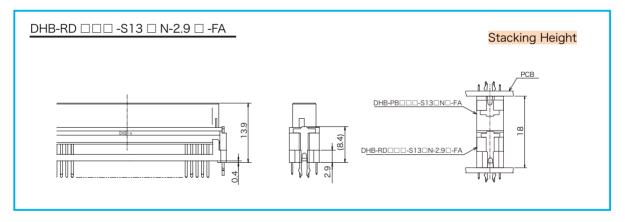
Number of Contact	А	В	С	D	Е	F
20	16.48	13.33	9×1.27=11.43	18.04	20.03	18.54
30	22.83	19.68	14×1.27=17.78	24.39	26.38	24.89
34	25.37	22.22	16×1.27=20.32	26.93	28.92	27.43
40	29.18	26.03	19×1.27=24.13	30.74	32.73	31.24
80	54.58	51.43	39×1.27=49.53	56.14	58.13	56.64
100	67.28	64.13	49×1.27=62.23	68.84	70.83	69.34

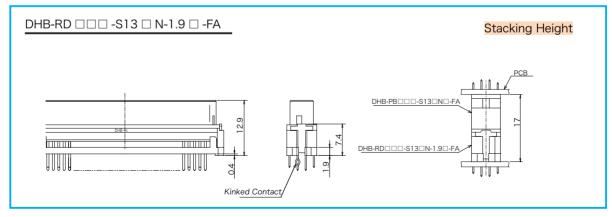
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Locator Height and Stacking Height



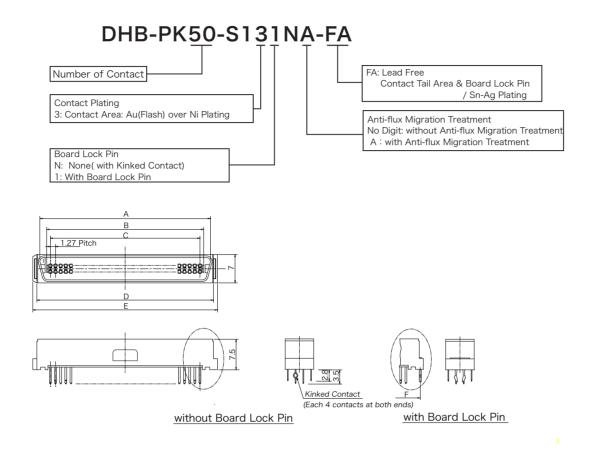






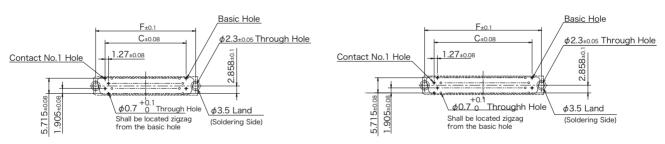
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▶Low Profile Plug Connector



30,50 Contacts

40,80,100 Contacts



(When the connector is without board lock pins, ϕ 2.3 through hole and dimension F are not necessary.) Recommended PCB Mounting Dimensions (Connector Mounting Side)

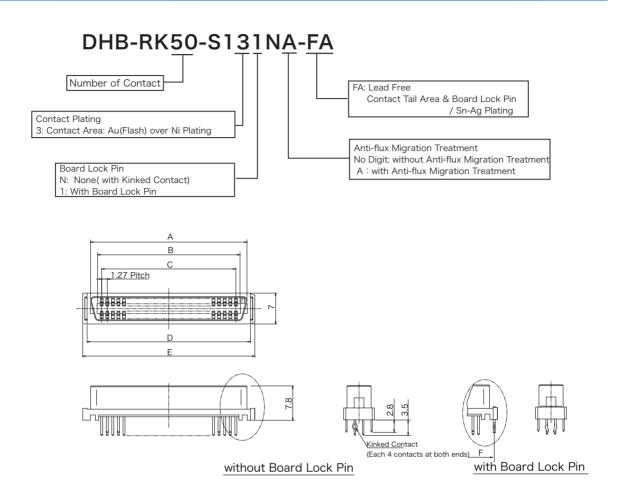
Applicable PCB Thickness : 1.6 $_{-0.10}^{+0.19}$ (with Board Lock Pin) :1.6±0.19 (without Board Lock Pin)

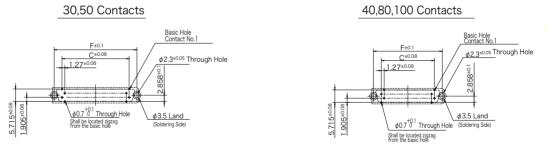
Number of Contact	А	В	С	D	Е	F
30	22.93	19.58	14×1.27=17.78	24.39	26.38	24.89
40	29.28	25.93	19×1.27=24.13	30.74	32.73	31.24
50	35.63	32.28	24×1.27=30.48	37.09	39.08	37.59
80	54.68	51.33	39×1.27=49.53	56.14	58.13	56.64
100	67.38	64.03	49×1.27=62.23	68.84	70.83	69.34

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DHB Series Unit: mm

▶Low Profile Receptacle Connector





(When the connector is without board lock pins, ϕ 2.3 through hole and dimension F are not necessar

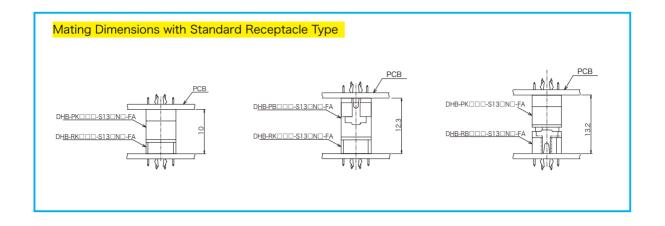
Recommended PCB Mounting Dimensions (Connector Mounting Side)

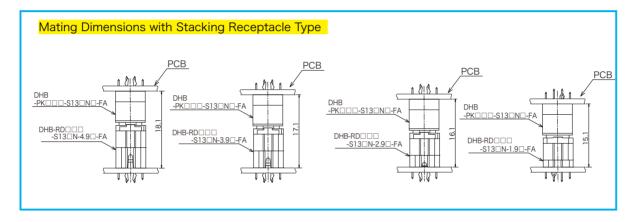
Applicable PCB Thickness : $1.6^{+0.19}_{-0.10}$ (with Board Lock Pin) : 1.6 ± 0.19 (without Board Lock Pin)

Number of Contact	А	В	С	D	Е	F
30	22.83	19.68	14×1.27=17.78	24.39	26.38	24.89
40	29.18	26.03	19×1.27=24.13	30.74	32.73	31.24
50	35.53	32.38	24×1.27=30.48	37.09	39.08	37.59
80	54.58	51.43	39×1.27=49.53	56.14	58.13	56.64
100	67.28	64.13	49×1.27=62.23	68.84	70.83	69.34

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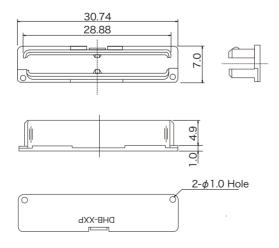
Connector Mating Dimensions





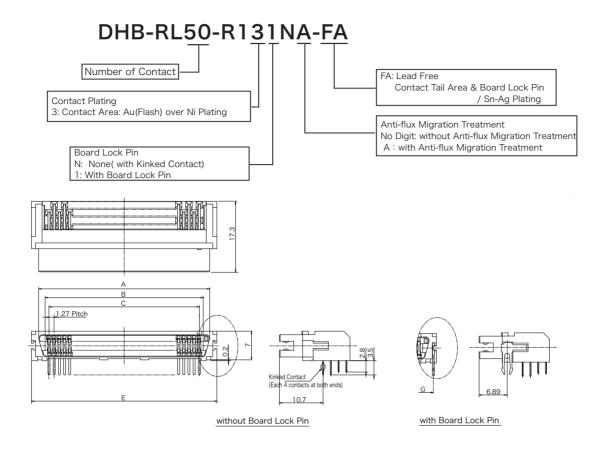
Dust Cover (For DHB-PA,PB Type)

DHB-40PB-404



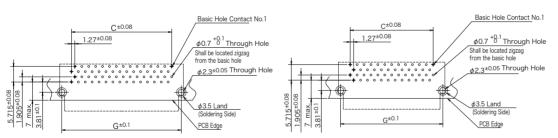
 $[\]odot$ Specifications and/or dimensions in this catalogue are subject to change without notice. Your catalogue checking the latest speifications with our drawings would be highly appreciated.

▶ Right Angle Receptacle Connector(with Slot)



40 Contacts

50 Contacts



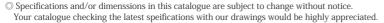
(When the connector is without board lock pins, $\phi 2.3$ through hole and dimension G are not necessary.)

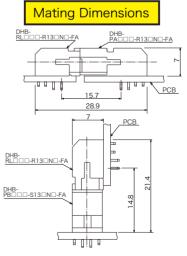
Recommended PCB Mounting Dimensions (Connector Mounting Side)

Applicable PCB Thickness : 1.6 $^{+0.19}_{-0.10}$ (with Board Lock Pin) :1.6±0.19 (without Board Lock Pin)

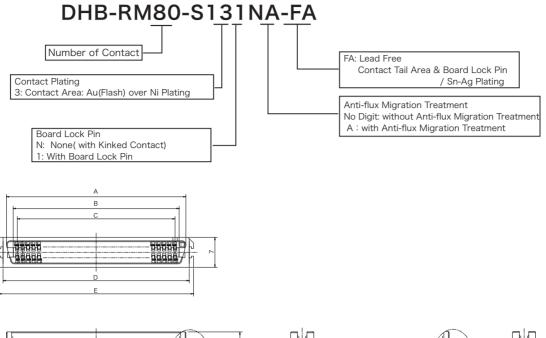
Number of Contact	А	В	С	Е	G
40	29.18	26.03	19×1.27=24.13	32.73	31.24
50	35.53	32.38	24×1.27=30.48	39.08	37.59

X The difference between standard type and slot type is the slots(depth:3.5mm) which is arranged at both sides of the housing. The housing siize and mounting dimensions are common.

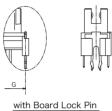


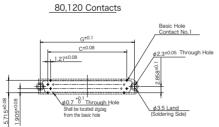


Straight Recewptacle Connector (with Slot)



without Board Lock Pin





(When the connector is without board lock pins, ϕ 2.3 through hole and dimension G are not necessary.)

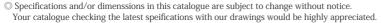
Recommended PCB Mounting Dimensions (Connector Mounting Side)

Applicable PCB Thickness: 1.6 -0.10 (with Board Lock Pin)

:1.6±0.19 (without Board Lock Pin)

Number of Contact	А	В	С	D	Е	G
80	54.58	51.43	39×1.27=49.53	56.14	58.13	56.64
120	79.98	76.83	59×1.27=74.93	81.54	83.53	82.04

* The difference between standard type and slot type is the slots(depth:3.5mm) which is arranged at both sides of the housing. The housing siize and mounting dimensions are common.



Mating Dimensions

