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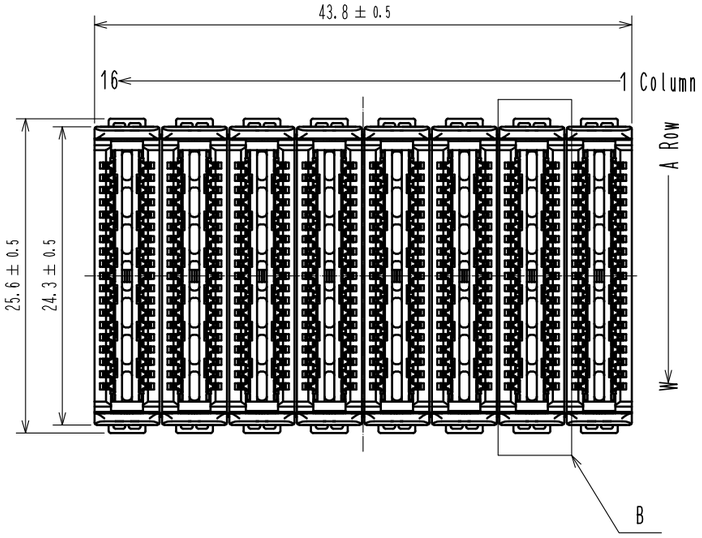
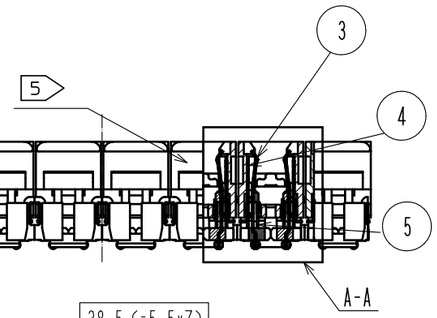
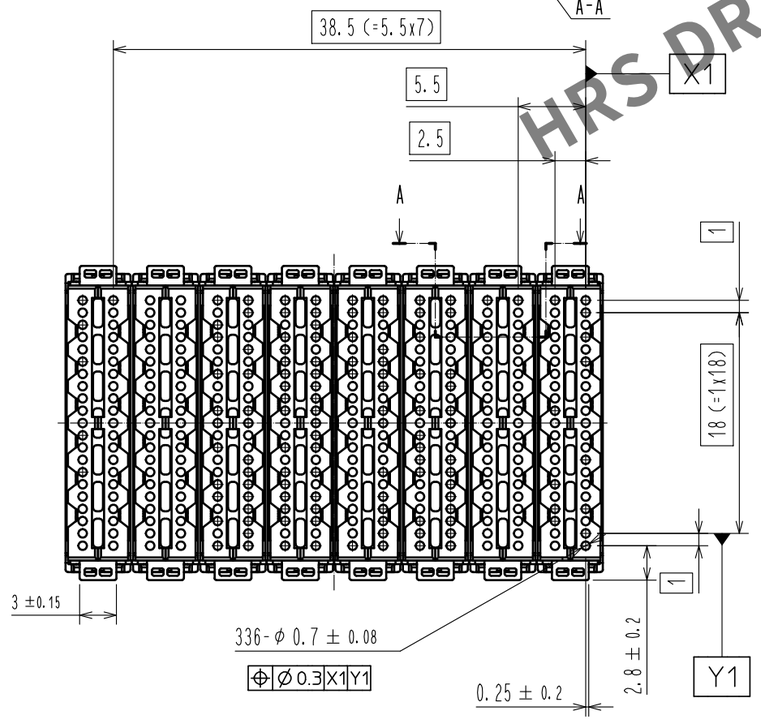




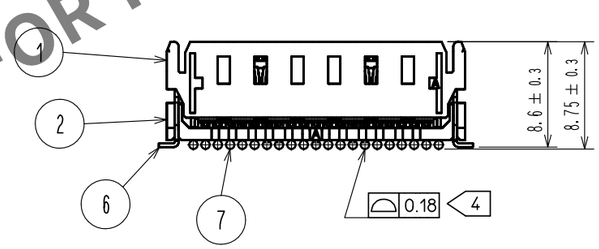


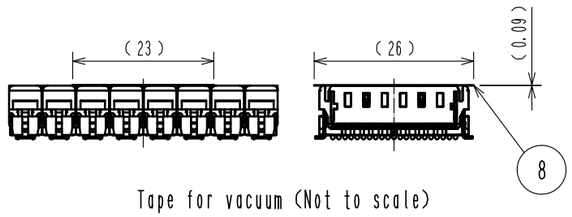
NOTES

1. IT8 receptacle to be mated with IT8D*-***P-BGA-*H(**).
2. Minimum clearance for all devices.
3. Minimum clearance for sensitive devices.
4. Maximum coplanarity of the ball field is 0.18mm
5. Lot no. is marked at the approx. location shown.
6. IT8 Series apply GSSG., pin assign as shown.
7. Standard package of 72 pcs are packaged in a carton box.
8. This product is recommended to use within four weeks after unpacked due to the possibility of oxidation of BGA.
9. This product is a solder ball locations and coplanarity sensitive BGA connector. It is recommended to handle this product with the automated machine. Solder ball locations and coplanarity might be damaged accidentally when it is manually handled by assembly workers.
10. The spacer height of this product assembled with mounted IT8D*-***P-BGA-*H(**) shall be indicated in Table 1.
11. The Daughter card shall be fastened with the Motherboard to additional reinforcements to prevent any stress on the solder joints of the connectors.
12. The indicated maximum angles shall not be exceed during mating/unmating operation to prevent damaging the connectors and peripheral components.
13. The retention pad is recommended to be floating, otherwise grounding is acceptable.

10. Table 1 Spacer height

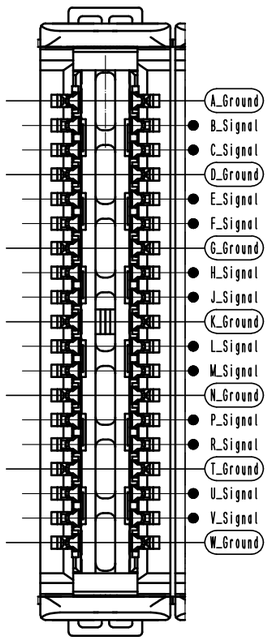
Spacer height (X)	10	11
Plug-D (Daughter card side)	IT8D*-***P-BGA-0H(**)	IT8D*-***P-BGA-1H(**)
Receptacle-M (Motherboard side)	IT8M*-***S-BGA-10H(**)	





Tape for vacuum (Not to scale)

B
(4:1)



NO.	MATERIAL	FINISH , REMARKS	NO.	MATERIAL	FINISH , REMARKS
4	Stainless steel		9	HIPS	TRAY, BLACK
3	Copper alloy	Contact area: Nickel 1.27μm min + Gold 0.76μm min	8	Heat resistant tape	Polyamide
		Other area: Nickel 1.27μm min	7	TIN	Sn(96.5)-Ag(3)-Cu(0.5)
2	LCP	BLACK, UL94V-0	6	Copper alloy	Nickel 1μm min + Gold 0.03μm min
1	PPS	BLACK, UL94V-0	5	Stainless steel	

UNITS	SCALE	COUNT	DESCRIPTION OF REVISIONS	DESIGNED	CHECKED	DATE
mm	2 : 1	0				

HIROSE ELECTRIC CO., LTD.

APPROVED	TM. MATSUO	20200226	DRAWING NO. EDC-385564-00-00
CHECKED	MK. EZAKI	20200226	PART NO. IT8MB-192S-BGA-10H
DESIGNED	KT. AIZAWA	20200225	CODE NO. CL636-3805-0-00
DRAWN	KT. AIZAWA	20200225	0 1/3

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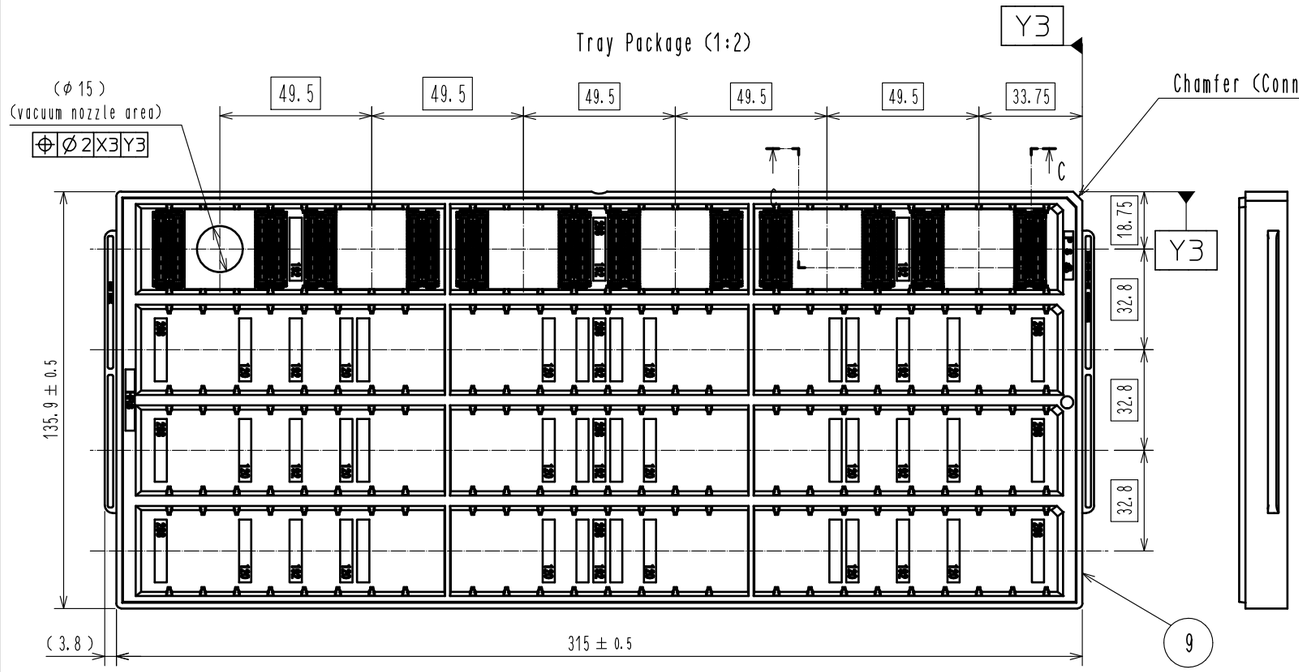
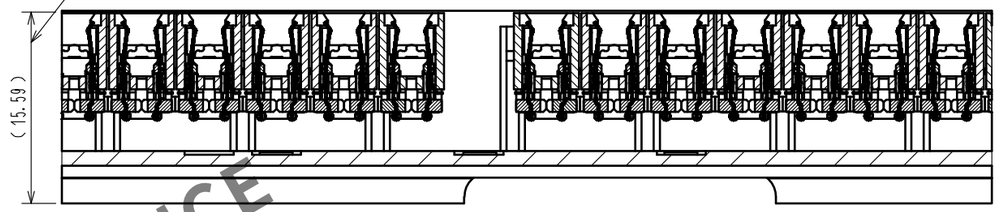
Tray Package (1:2)

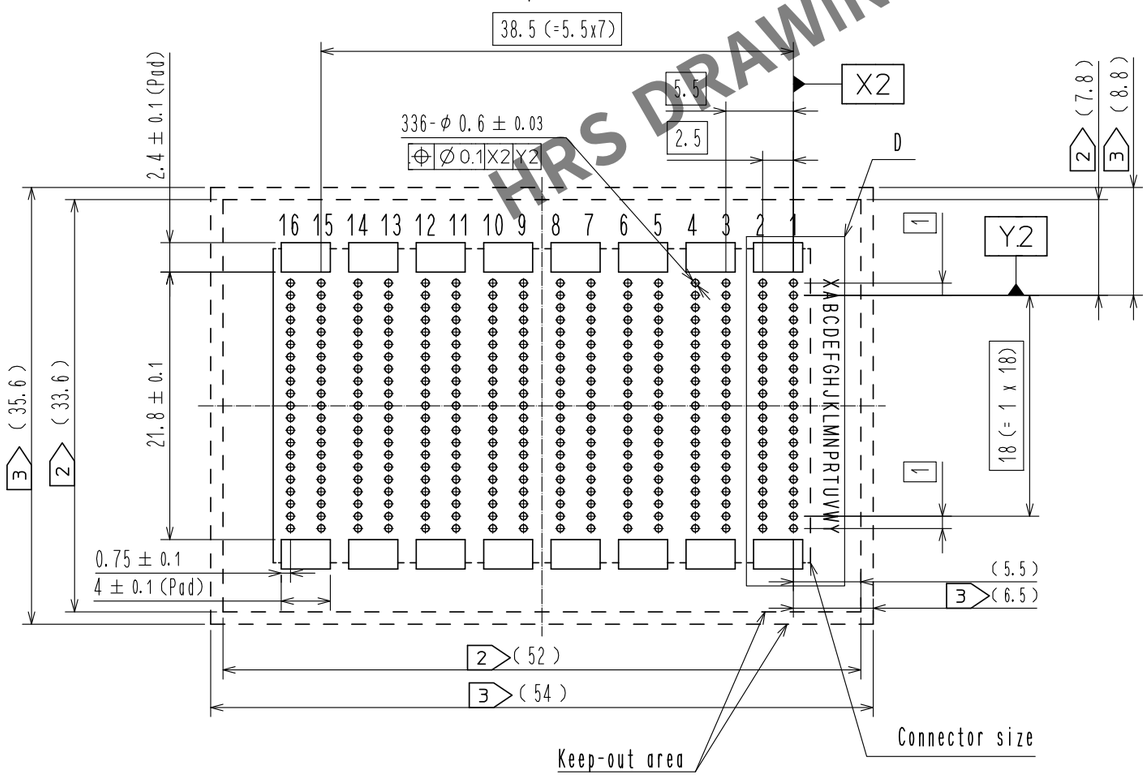


C-C (2:1)

Dimension from bottom of tray to top of connector

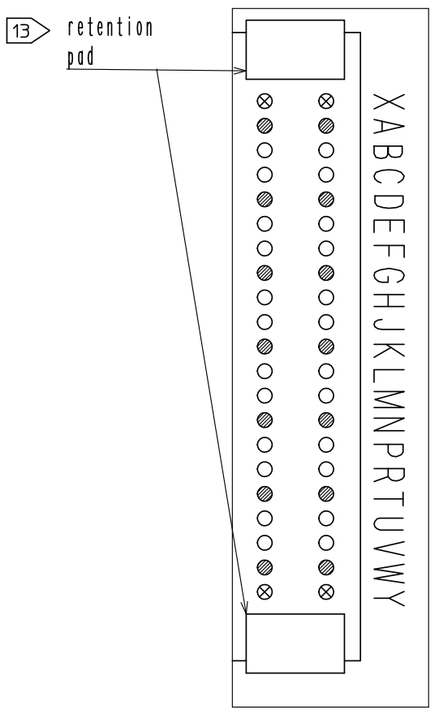


Recommended PCB footprint (Connecor side)



Pin Assignment

D
(4:1)



Symbols

⊗:Ground
○:Signal

⊗:X and Y rows = Ground. Retention Pins

DRAWING NO.	EDC-385564-00-00
PART NO.	IT8MB-192S-BGA-10H
CODE NO.	CL636-3805-0-00

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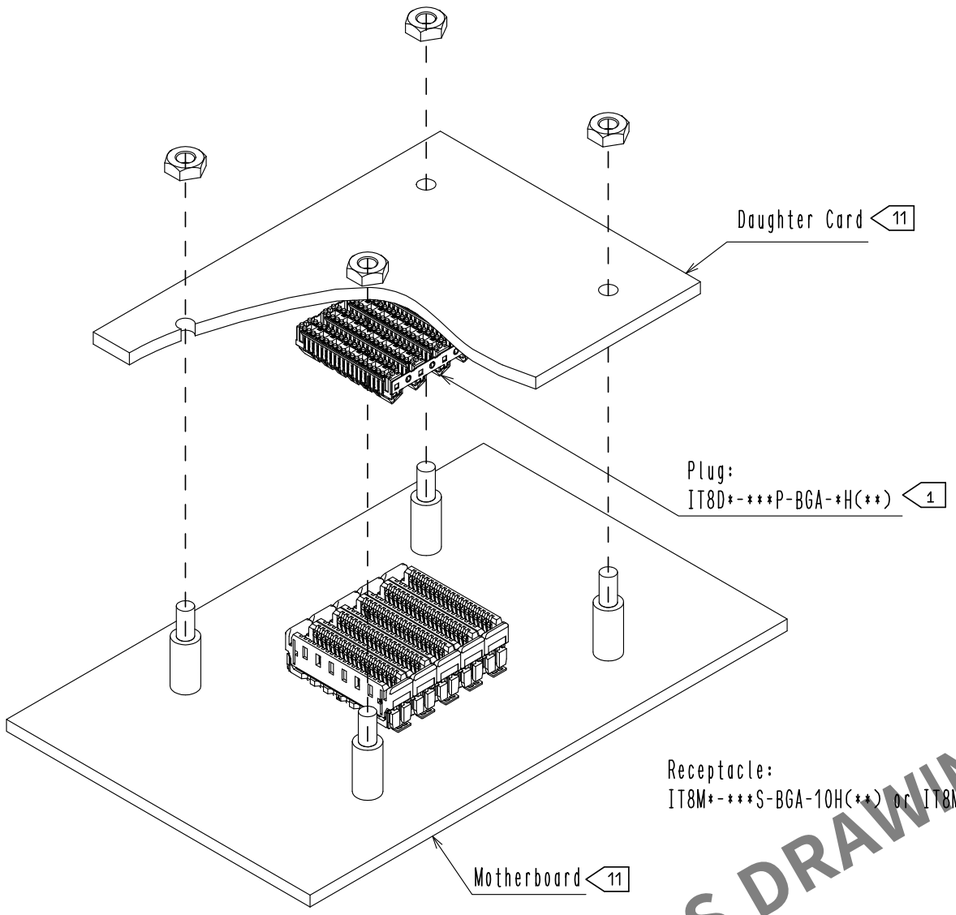
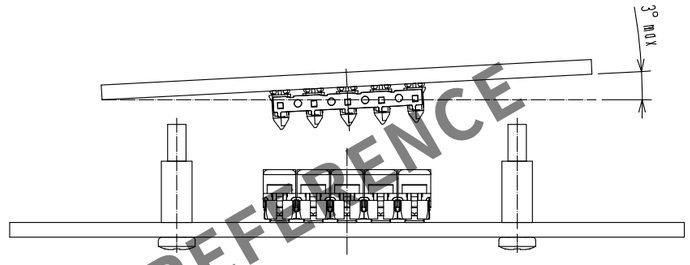
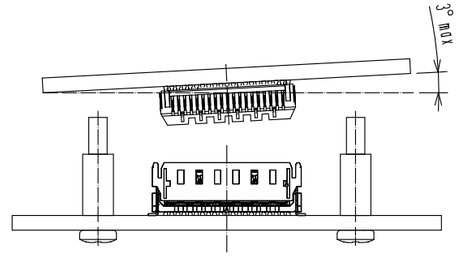
Assembly Process



12 Mating / Unmating Instruction

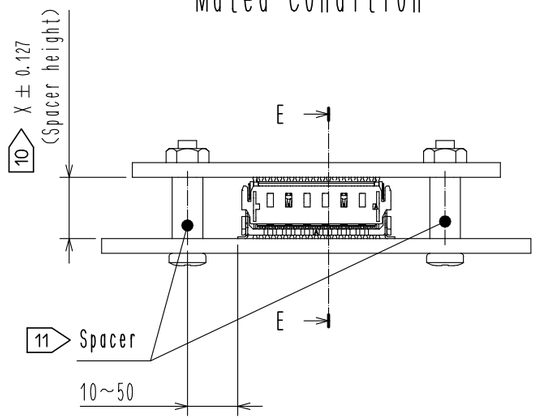


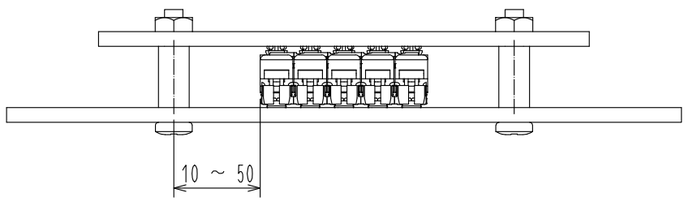
Longitudinal Side



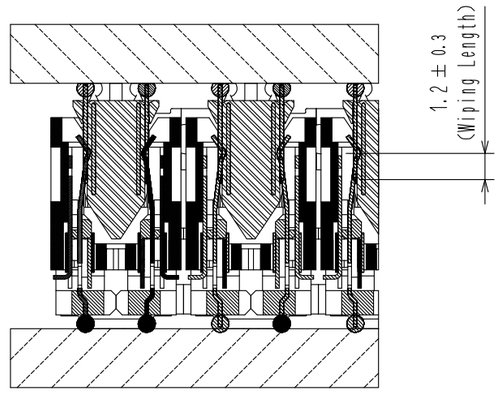
Lateral Side

Mated Condition





E-E
(4:1)



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	PART NO.	IT8MB-192S-BGA-10H
	CODE NO.	CL636-3805-0-00