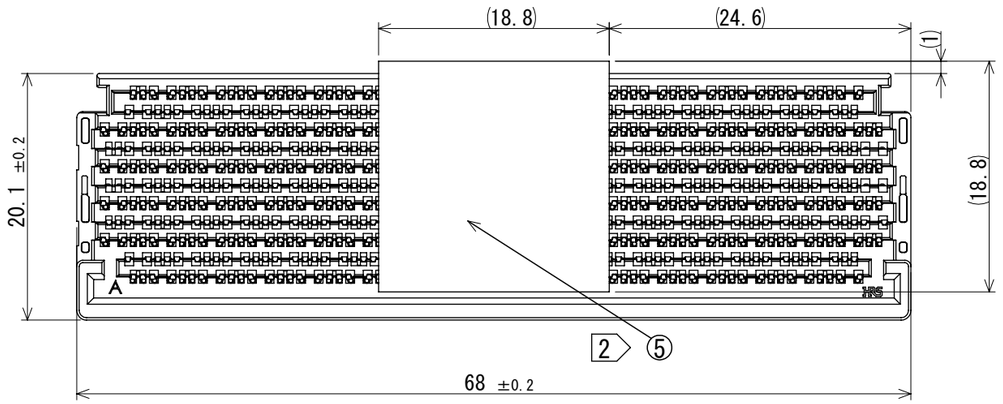
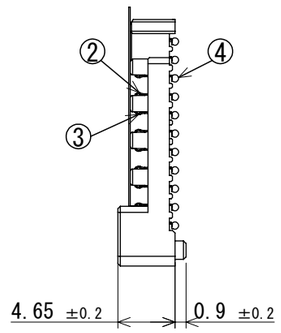
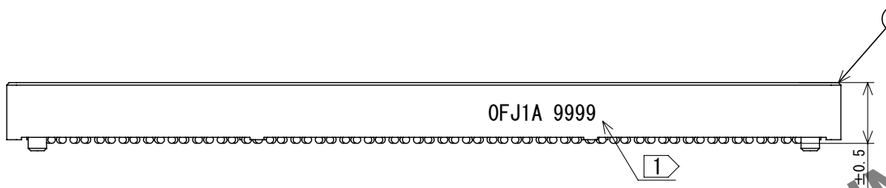
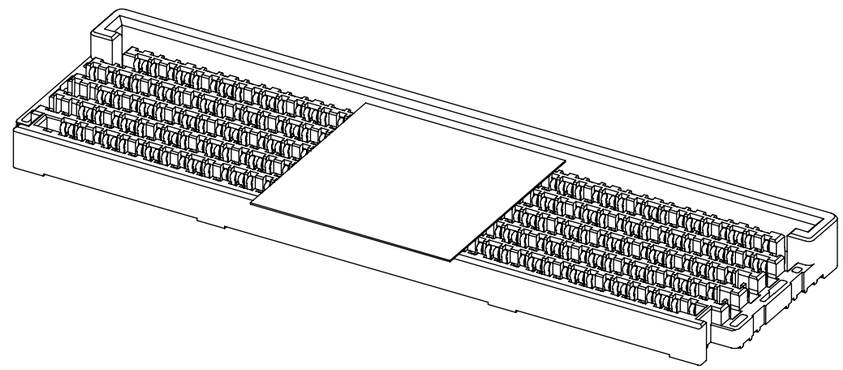
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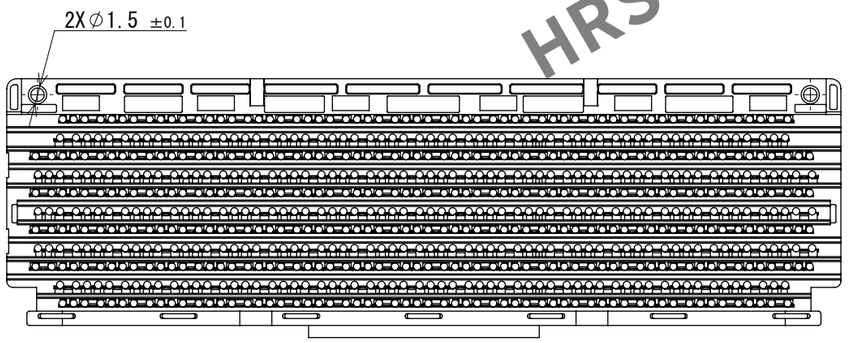




NOTES
1. Lot no. is marked at the approx. location shown.
2. Please remove the heat resistant tape (part No. 5) from the IT14 connector after reflow soldering.
△5 3. Standard package of 150pcs are packaged in a embossed carrier tape.
4. This product is a solder ball locations and coplanarity sensitive 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.
5. The spacer height of this product is 5 mm.







HRS DRAWING FOR REFERENCE

NO.	MATERIAL	FINISH , REMARKS	NO.	MATERIAL	FINISH , REMARKS
3	Copper alloy	Contact area: Nickel 1.3um min + Gold 0.76um min Other area: Nickel 1.3um min	7	(Top Cover Tape)	PET
2	Copper alloy	Contact area: Nickel 1.3um min + Gold 0.76um min Other area: Nickel 1.3um min	6	(Embossed Carrier Tap)	PS
1	LCP	BLACK, UL94V-0	5	Heat resistant tape	Polyimide
			4	TIN	Sn(96.5)-Ag(3)-Cu(0.5)

UNITS	SCALE		COUNT	DESCRIPTION OF REVISIONS	DESIGNED	CHECKED	DATE
mm	2:1	△5	1	DIS-F-00020235	TH. SANO	TY. TAKADA	2024.04.01

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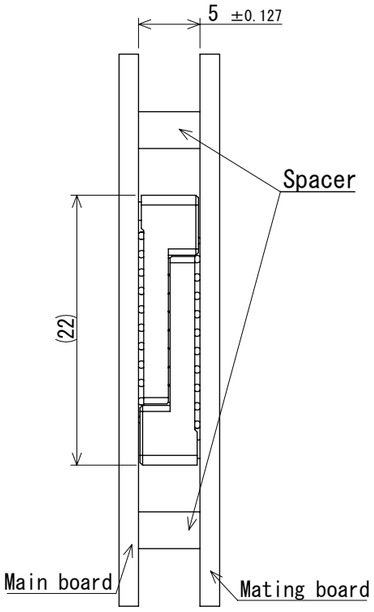
APPROVED	TM. MATSUO	2021.08.02
CHECKED	NH. TAMAI	2021.08.02
DESIGNED	TH. SANO	2021.07.30
DRAWN	TH. SANO	2021.07.30

DRAWING NO.	EDC-391549-00-00
PART NO.	IT14-688S-BGA-2.5H
CODE NO.	CL0636-6001-0-00

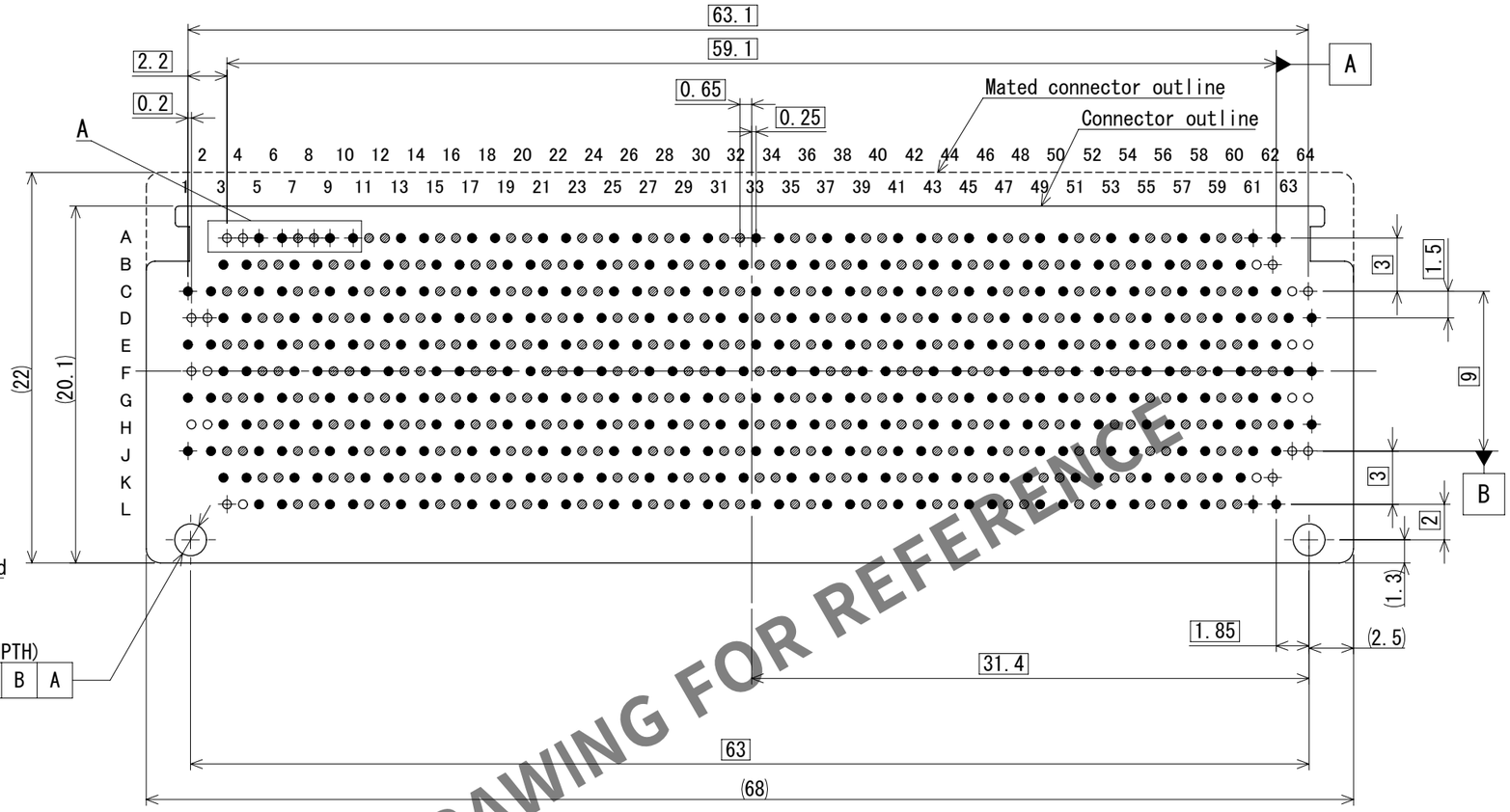
△5 1/3

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5 Mated Dimension



Recommended PCB footprint

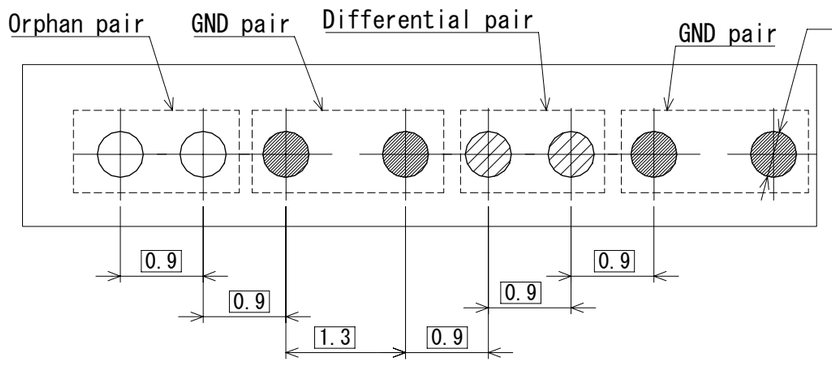


2X ⌀1.8 ±0.05 (NPTH)

⌖	⌀ 0.05	C	B	A

HRS DRAWING FOR REFERENCE

A (15 : 1)



⌀0.5 ±0.05 Pad

⌖	⌀ 0.05	C	B	A

⌀0.6±0.05 Solder mask aperture (688X)
Non-solder mask defined.

PIN MAPPING
(Main board - Mating board)

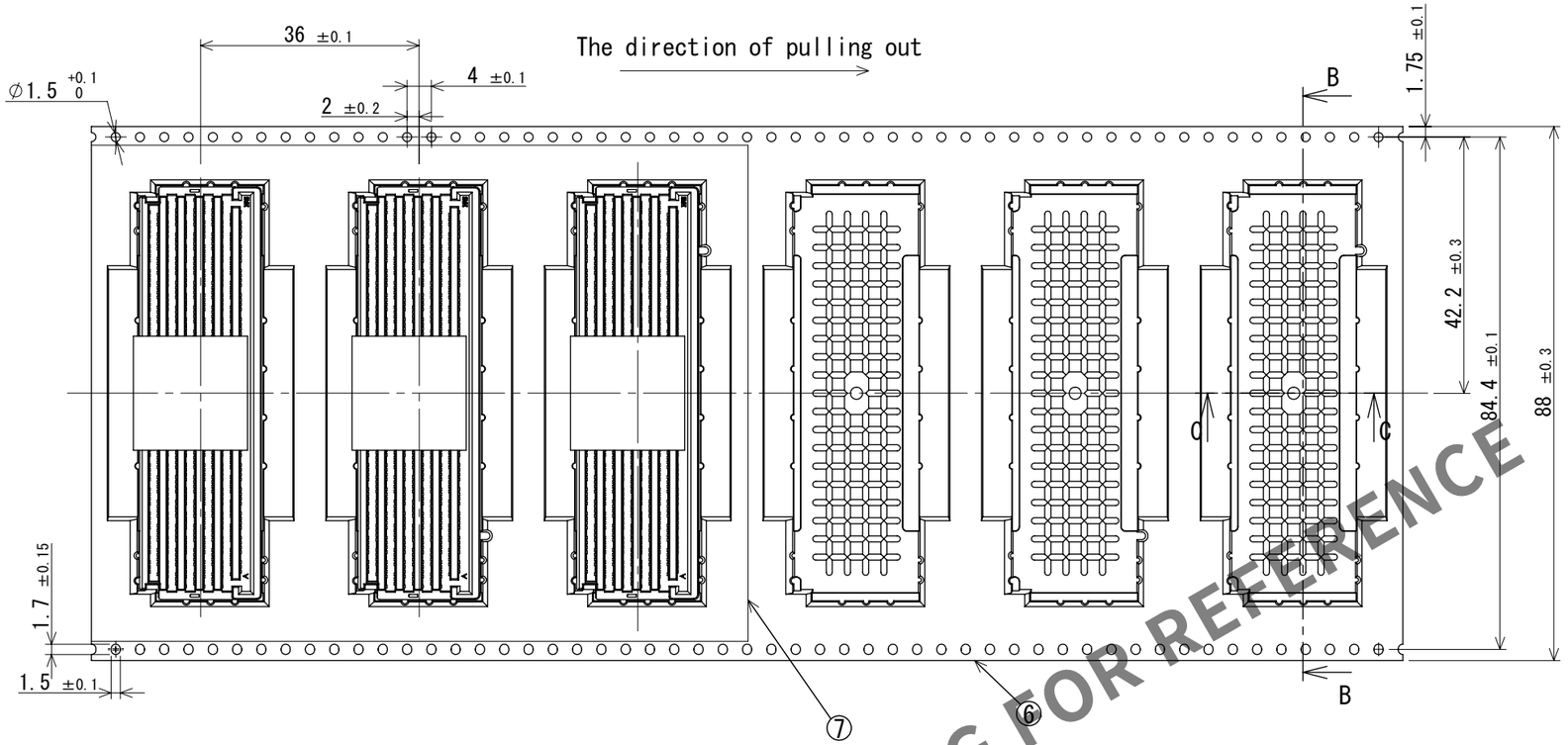
/	/	A3-L3	A4-L4	A5-L5	----	A60-L60	A61-L61	A62-L62	/	/
/	/	B3-K3	B4-K4	B5-K5	----	B60-K60	B61-K61	B62-K62	/	/
C1-J1	C2-J2	C3-J3	C4-J4	C5-J5	----	C60-J60	C61-J61	C62-J62	C63-J63	C64-J64
D1-H1	D2-H2	D3-H3	D4-H4	D5-H5	----	D60-H60	D61-H61	D62-J62	D63-H63	D64-H64
E1-G1	E2-G2	E3-G3	E4-G4	E5-G5	----	E60-G60	E61-G61	E62-G62	E63-G63	E64-G64
F1-F1	F2-F2	F3-F3	F4-F4	F5-F5	----	F60-F60	F61-F61	F62-F62	F63-F63	F64-F64
G1-E1	G2-E2	G3-E3	G4-E4	G5-E5	----	G60-E60	G61-E61	G62-E62	G63-E63	G64-E64
H1-D1	H2-D2	H3-D3	H4-D4	H5-D5	----	H60-D60	H61-D61	H62-D62	H63-D63	H64-D64
J1-C1	J2-C2	J3-C3	J4-C4	J5-C5	----	J60-C60	J61-C61	J62-C62	J63-C63	J64-C64
/	/	K3-B3	K4-B4	K5-B5	----	K60-B60	K61-B61	K62-B62	/	/
/	/	L3-A3	L4-A4	L5-A5	----	L60-A60	L61-A61	L62-A62	/	/

UNITS		SCALE		COUNT	DESCRIPTION OF REVISIONS	DESIGNED	CHECKED	DATE
mm		2:1	△5	1	DIS-F-00020235	TH. SANO	TY. TAKADA	2024.04.01

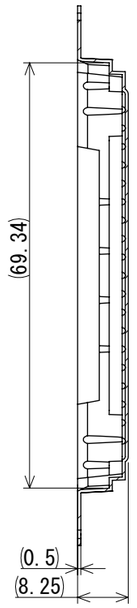
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	CHECKED : NH. TAMAI	2021.08.02	PART NO. IT14-688S-BGA-2.5H
	DESIGNED : TH. SANO	2021.07.30	
	DRAWN : TH. SANO	2021.07.30	CODE NO. CL0636-6001-0-00 △5 2/3

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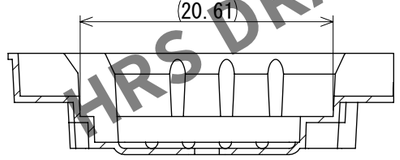
Drawing for packageing



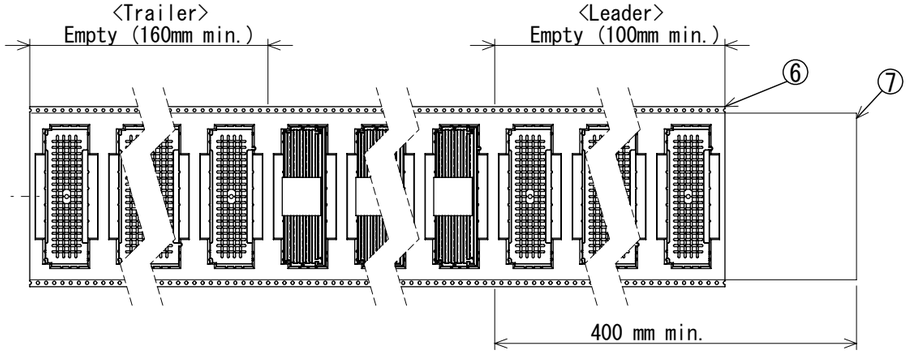
B-B
(1 : 1)



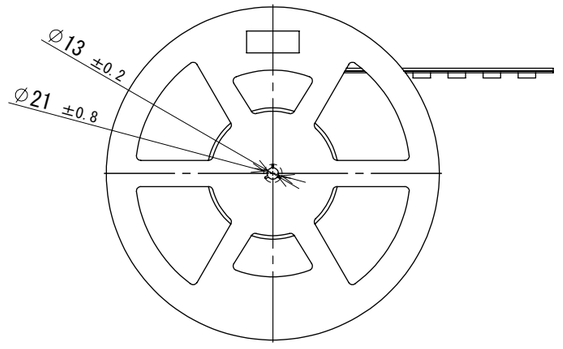
C-C

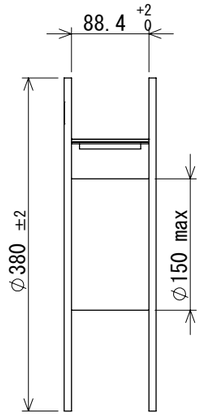


Tape leader and trailier dimensions



Detail of reel (Free)





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UNITS	SCALE		COUNT	DESCRIPTION OF REVISIONS	DESIGNED	CHECKED	DATE
mm	2:1	△5	1	DIS-F-00020235	TH. SANO	TY. TAKADA	2024.04.01

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	DESIGNED : TH. SANO 2021.07.30	CODE NO.	CL0636-6001-0-00 △5 3/3
	DRAWN : TH. SANO 2021.07.30		

FORM HC0011-5