

EVAFLEX® 5-SE-G HT

片手作業対応オートロック、高温対応(125℃)、高速伝送対応、水平嵌合、0.5 mmピッチ、シールドFFC/FPC

Product Specifications:

Board Pitch (mm)		0.5
Wiping Length (mm)		1.2
Size (mm)	Height	3.65 +/- 0.20
	Width	Formula: 8.00 + (0.5*?p)
	Depth	7.00 +/- 0.30
Pin counts	Range	20 - 60
	Available	30, 50

*記載のない極数の対応状況についてはお問い合わせください。

Applicable FPC/FFC:

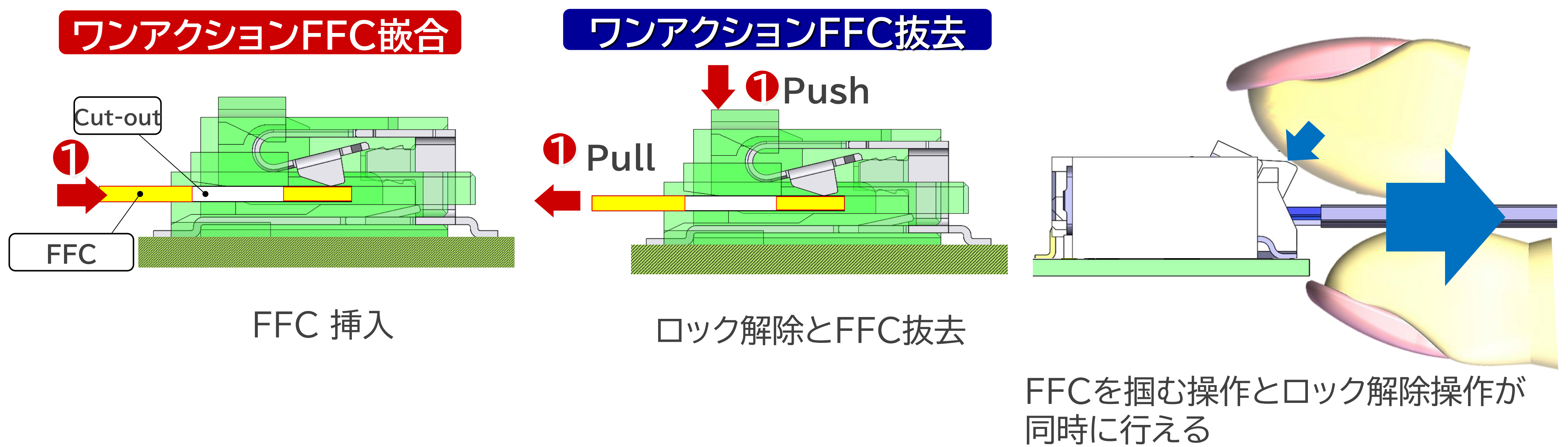
FPC/FFC Type	Shielded FFC, Non-shielded FFC/FPC
FPC/FFC Contact Point	Bottom
FPC/FFC Thickness (mm)	0.30 +/- 0.03

Applicable Standards (Reference Only):

eDP (2.7 Gbps) V-By-One HS 1.4 (4 Gbps)

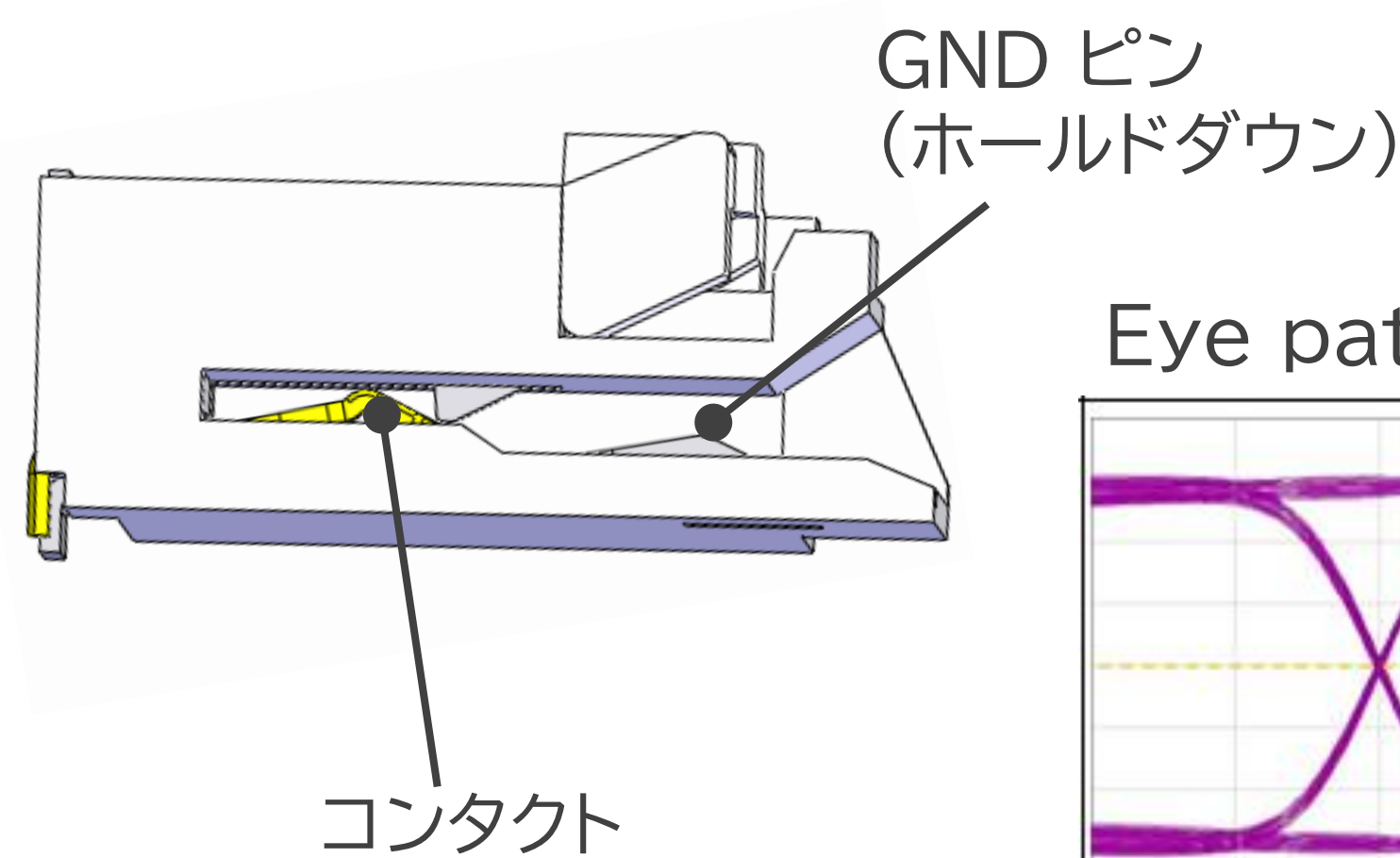
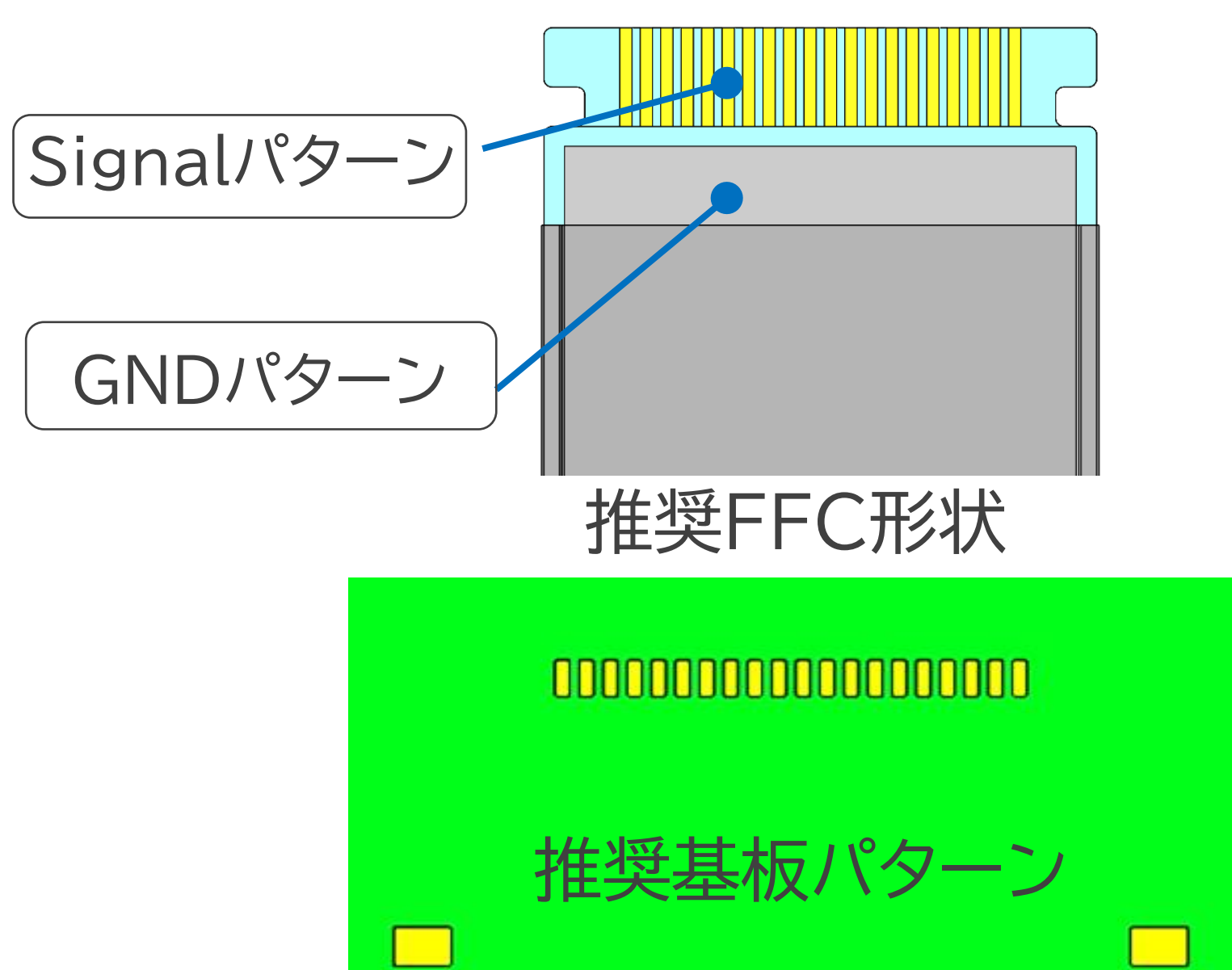


▶ 片手での作業ができるオートロックデザイン。手作業やロボットでの組立作業に最適

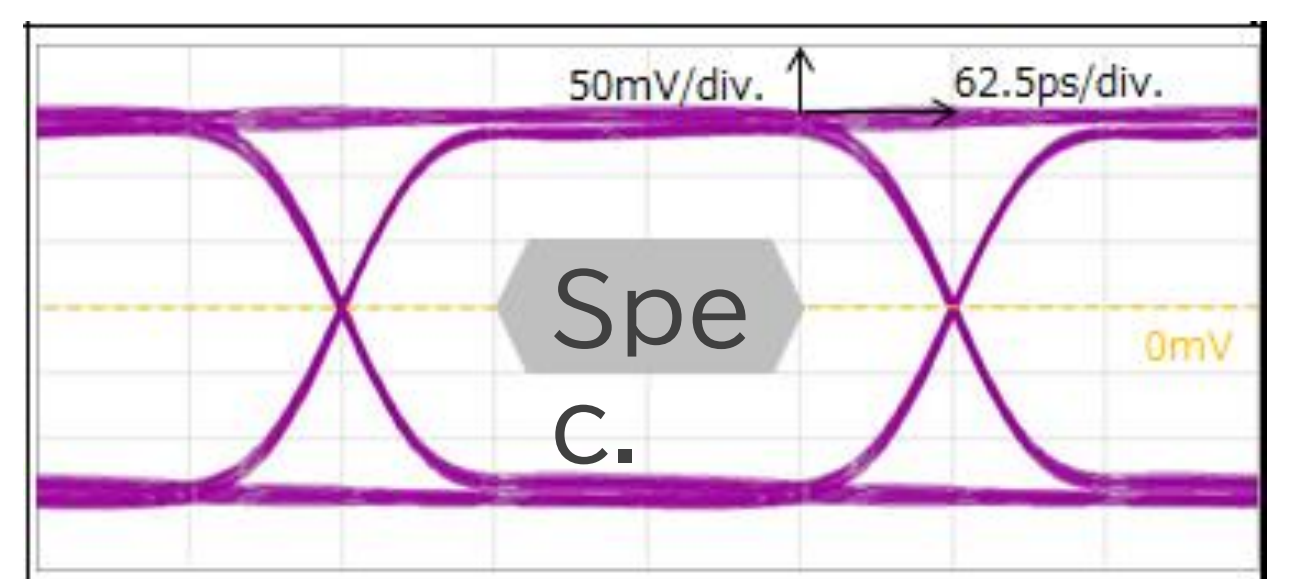


▶ GNDコンタクトを実装した高速伝送設計(4+ Gbps V-By-One® HS)

ホールドダウンにGNDピンを設置しており、GND接続が可能
伝送速度ターゲット: 4+ Gbps (V-By-One® HS)



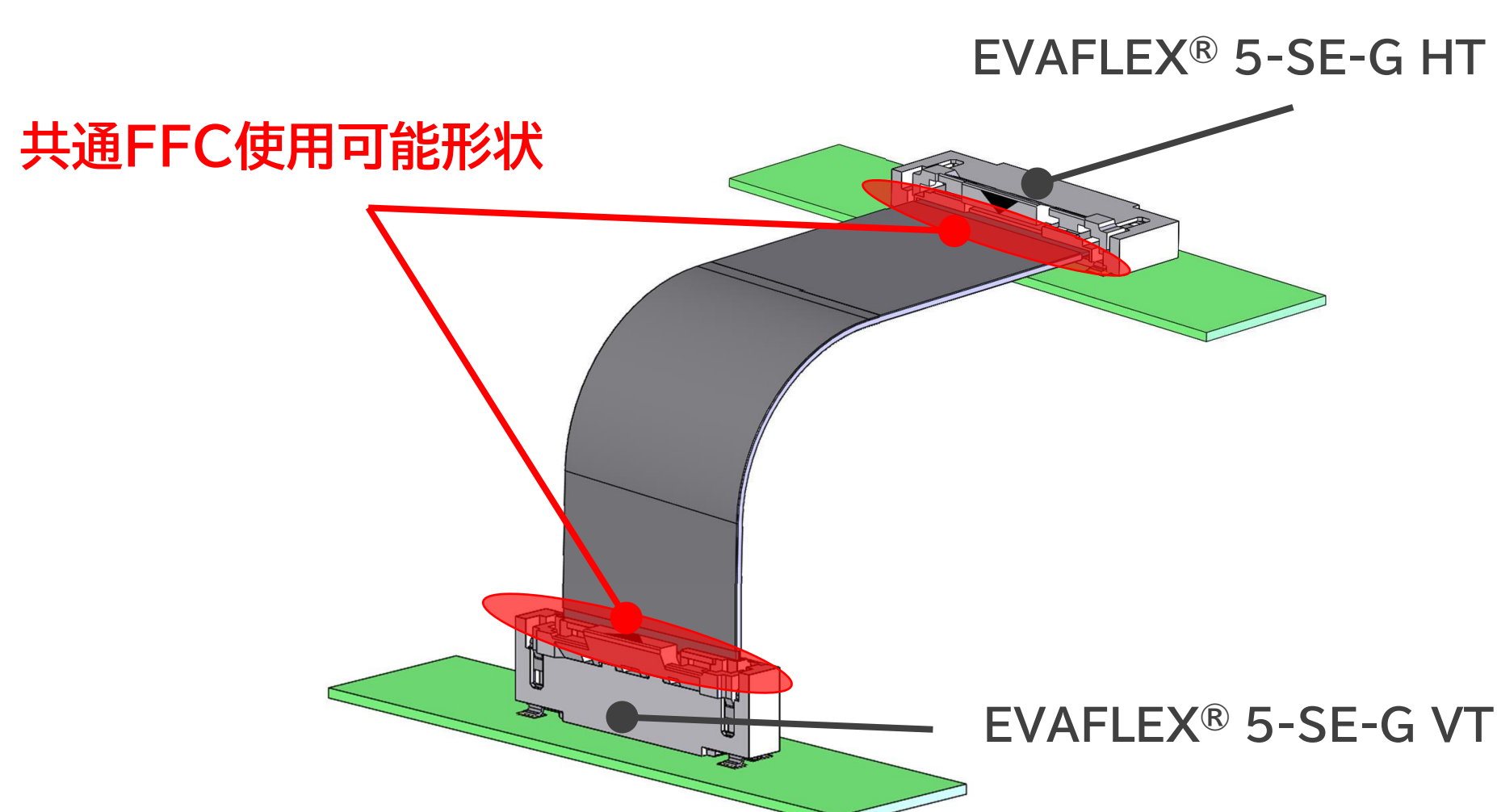
Eye pattern 4 Gbps (actual)



▶ 拡張性の高いEVAFLEX®シリーズでオートロックを始め様々なオプションに対応

同じFFCを使用した垂直嵌合タイプ: EVAFLEX® 5-SE-GVT

高速 & 小型: EVAFLEX® 5-VS Type CH



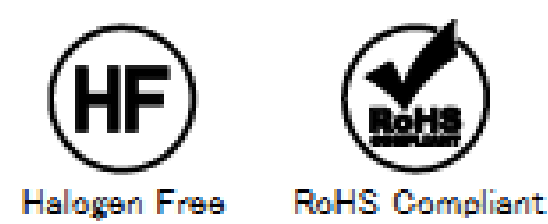
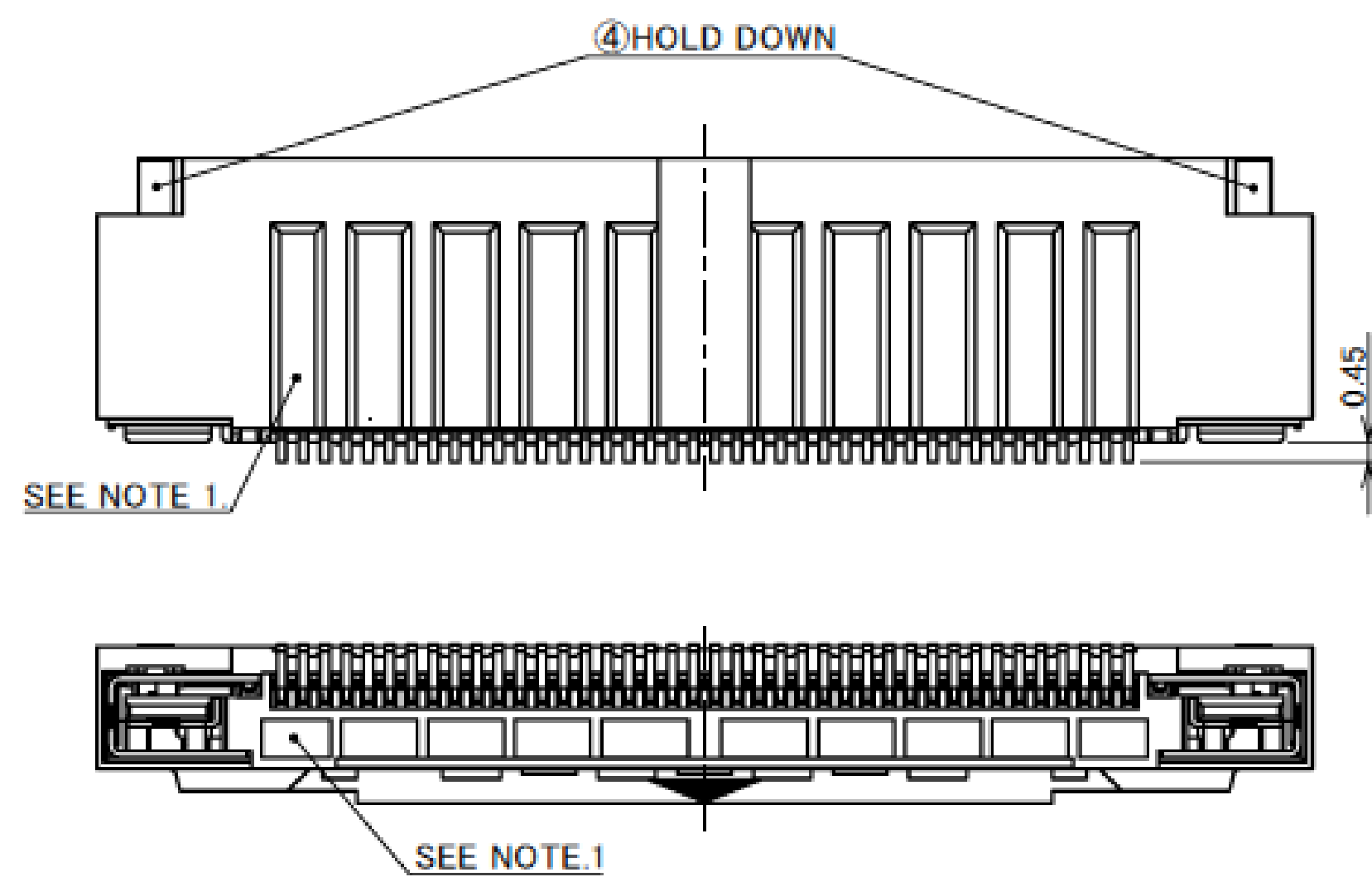
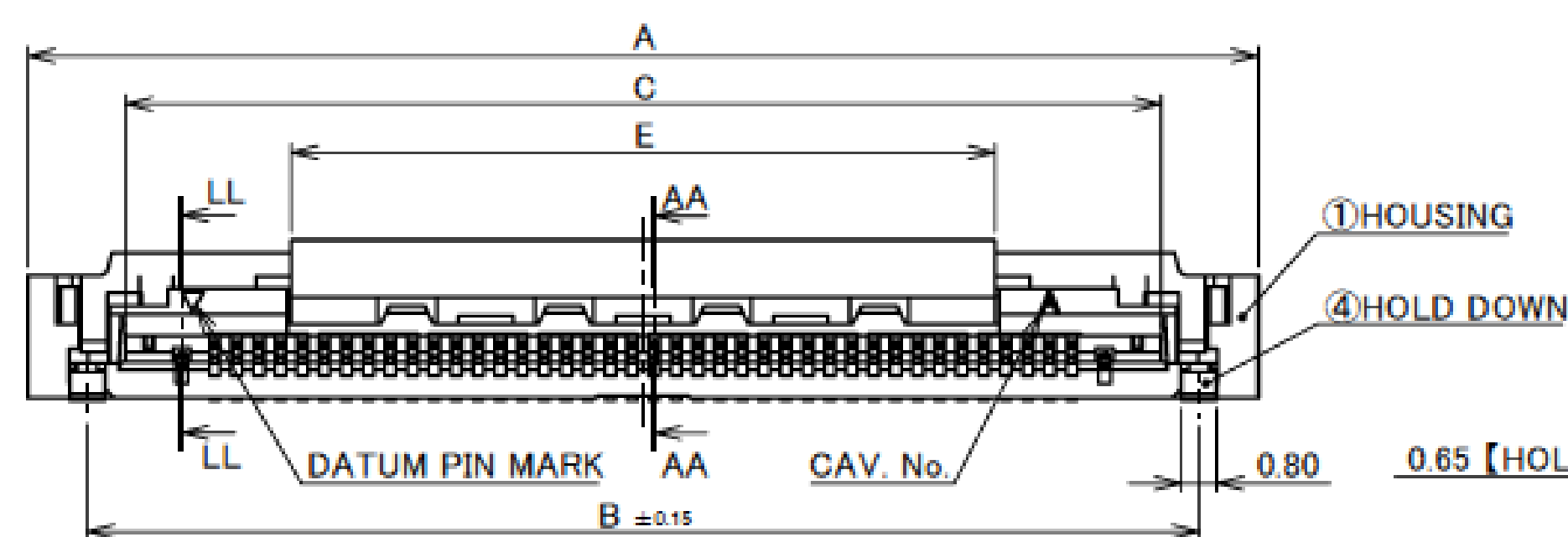
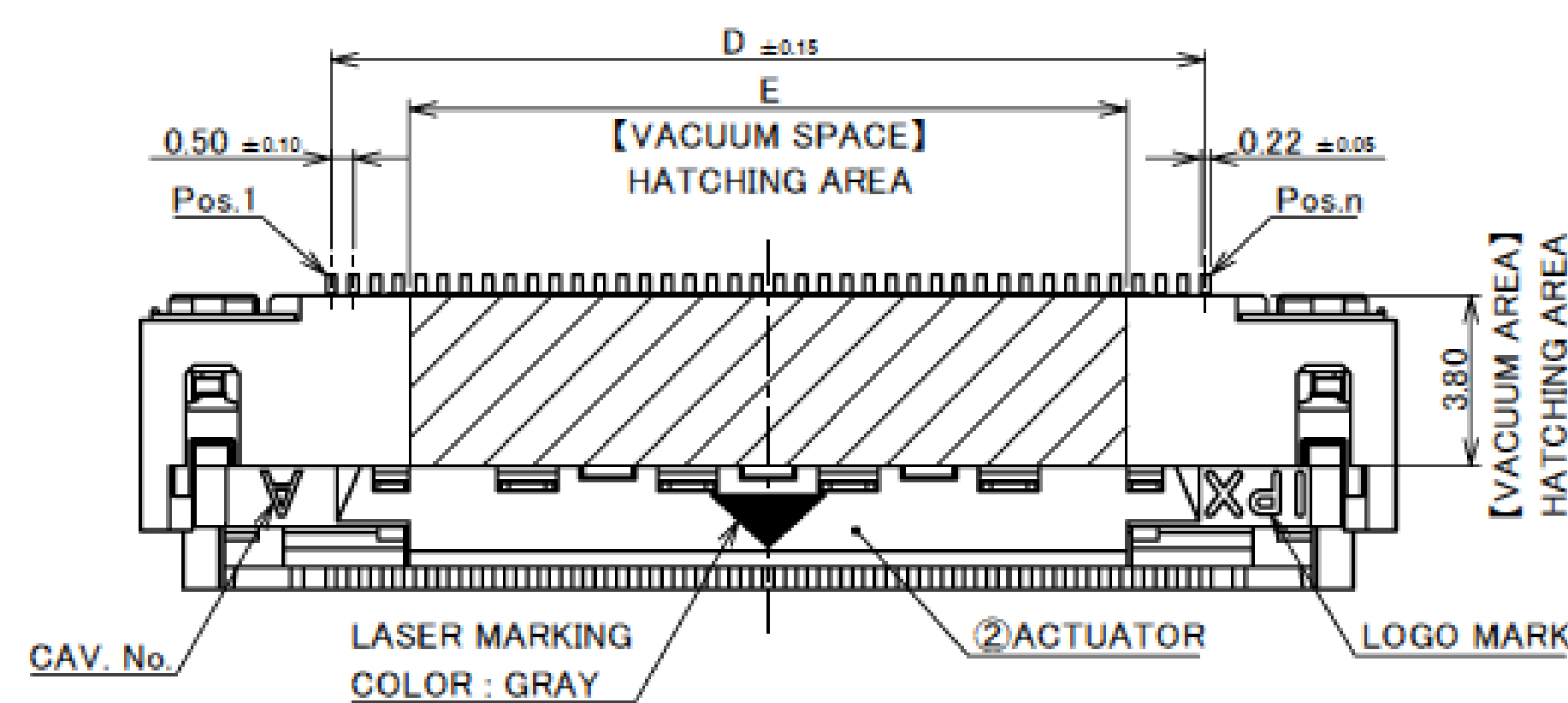
	EVAFLEX® 5-SE-G VT	EVAFLEX® 5-VS
Height (mm)	6.60 +/- 0.1	1.90 +/- 0.1
Operation Temperature	~ 125℃	~ 105℃
Reference Performance	V-by-one HS 1.4 (4+ Gbps)	PCIe Gen 3 (8+ Gbps)



Component Parts Details

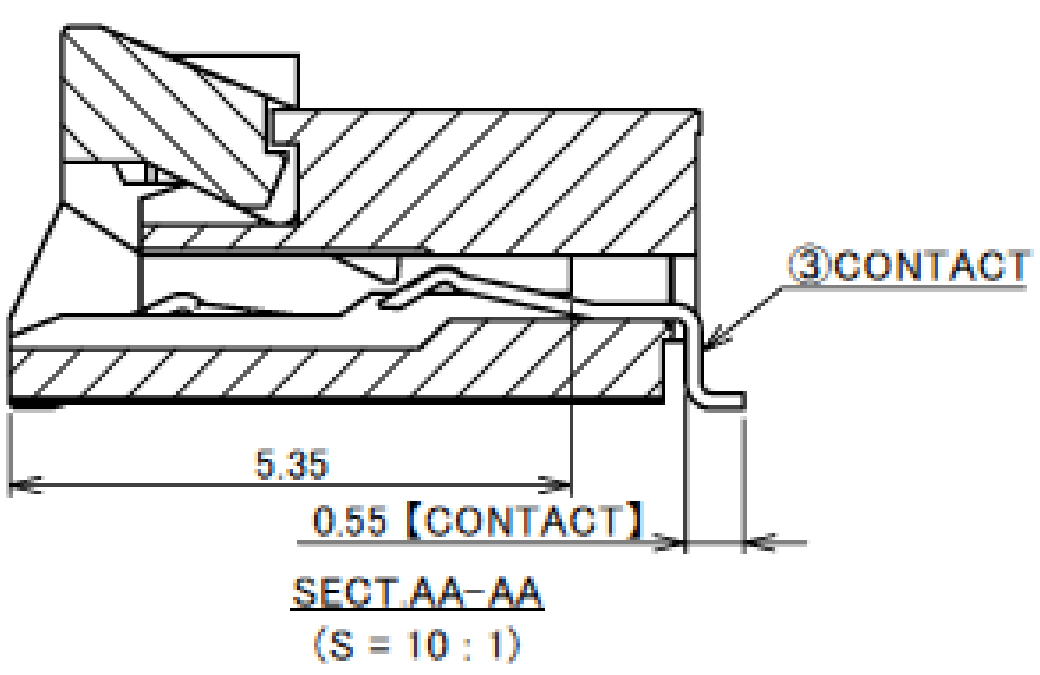
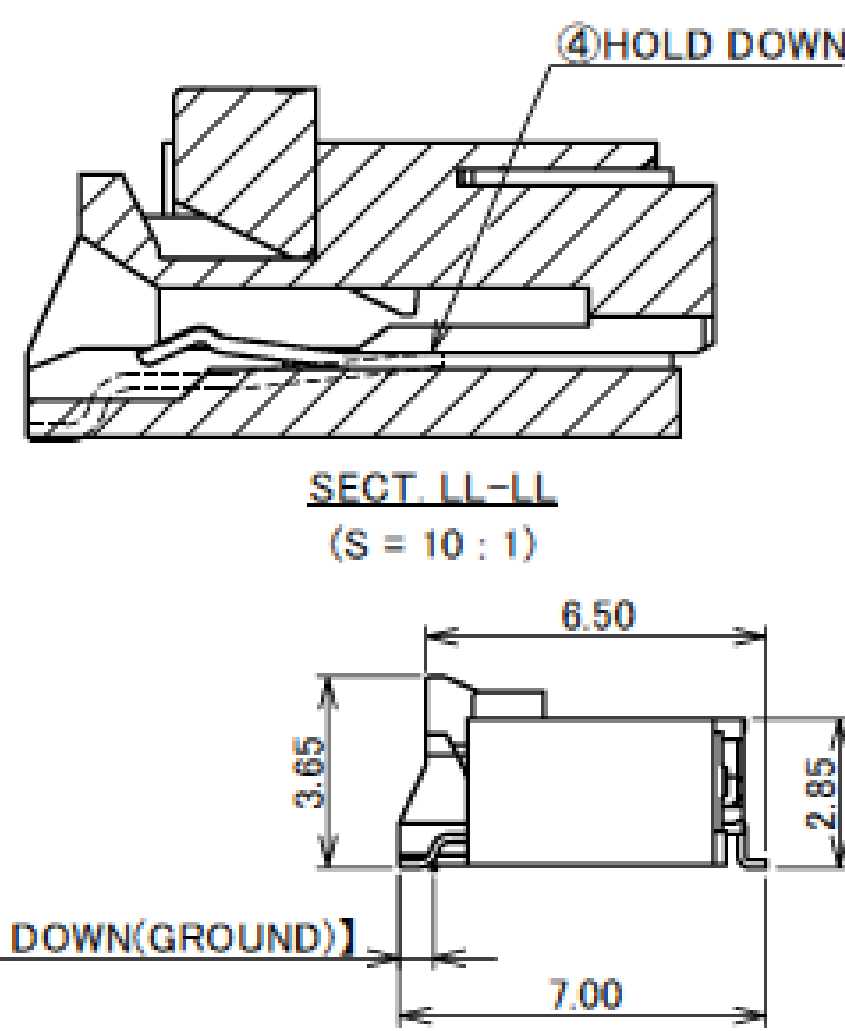
Connector Assembly

Recommended P/N 20899-0**E-01



PART No.	A	B	C	D	E
◆20899-020E-01	18.00	15.30	13.56	9.50	6.00
20899-030E-01	23.00	20.30	18.56	14.50	11.00
◆20899-040E-01	28.00	25.30	23.56	19.50	16.00
20899-050E-01	33.00	30.30	28.56	24.50	21.00
◆20899-060E-01	38.00	35.30	33.56	29.50	26.00

◆MARK MEANS NOT AVAILABLE.



NOTES.
1. DENT SHAPE SHOWN ON DRAWING IS JUST FOR REFERENCE.
DENT SHAPE AND QUANTITY MIGHT CHANGE FROM DIFFERENT PIN COUNT AND DIFFERENT TOOLING.

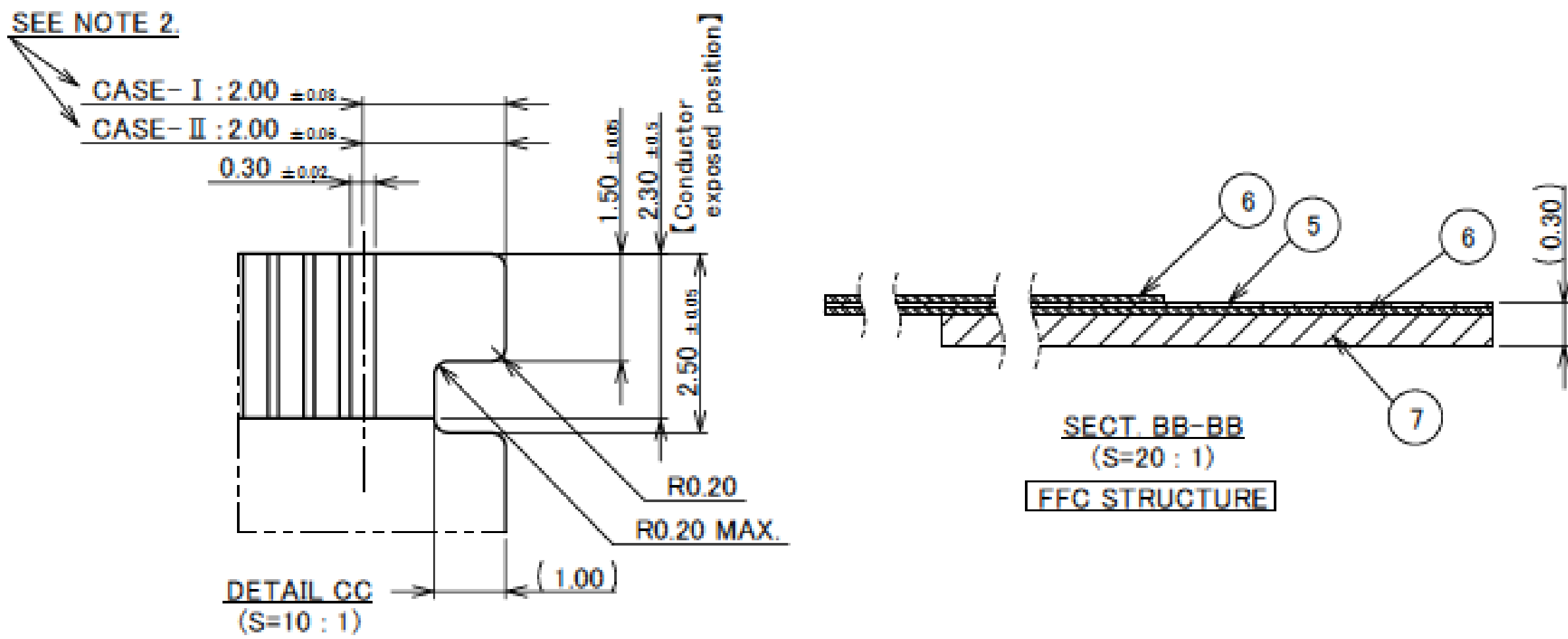
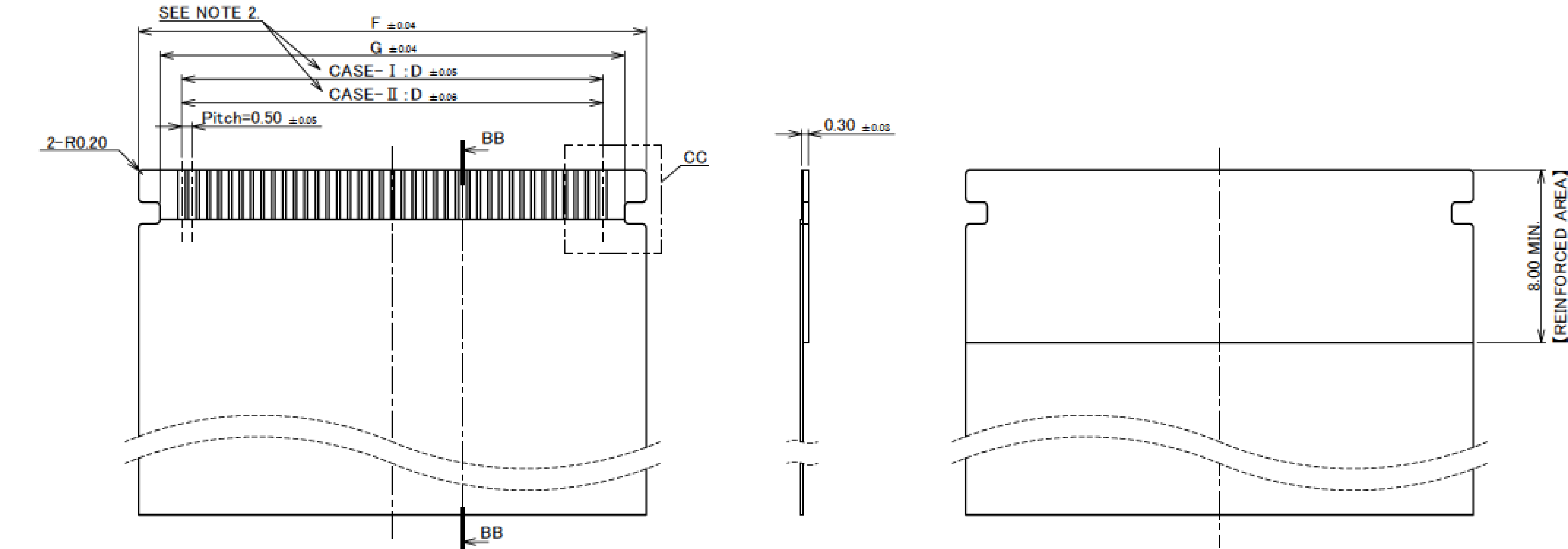
4	HOLD DOWN	CORSON ALLOY	SOLDERING AREA : Au 0.03μm MIN. OVER Ni 1.00μm MIN.
3	CONTACT	CORSON ALLOY	CONTACT AREA AND SOLDERING AREA : Au 0.03μm MIN. OVER Ni 1.00μm MIN.
2	ACTUATOR	LCP	UL94V-0, BEIGE
1	HOUSING	LCP	UL94V-0, BEIGE
NO.	DISCRIPTION	MATERIAL	FINISH , REMARKS

Connector Assembly

PART No.	D	F	G
◆20899-020E-01	9.50	13.50	11.50
20899-030E-01	14.50	18.50	16.50
◆20899-040E-01	19.50	23.50	21.50
20899-050E-01	24.50	28.50	26.50
◆20899-060E-01	29.50	33.50	31.50

◆MARK MEANS NOT AVAILABLE.

RECOMMENDED FFC LAYOUT
【NON SHIELDED TYPE】



NOTES.

2. MANUFACTURE CASE- I or II

3. SELECT A MATERIAL WITH A SOFTENING TEMPERATURE OF 85°C OR HIGHER FOR THE PATTERN ADHESIVE PART OF FFC.

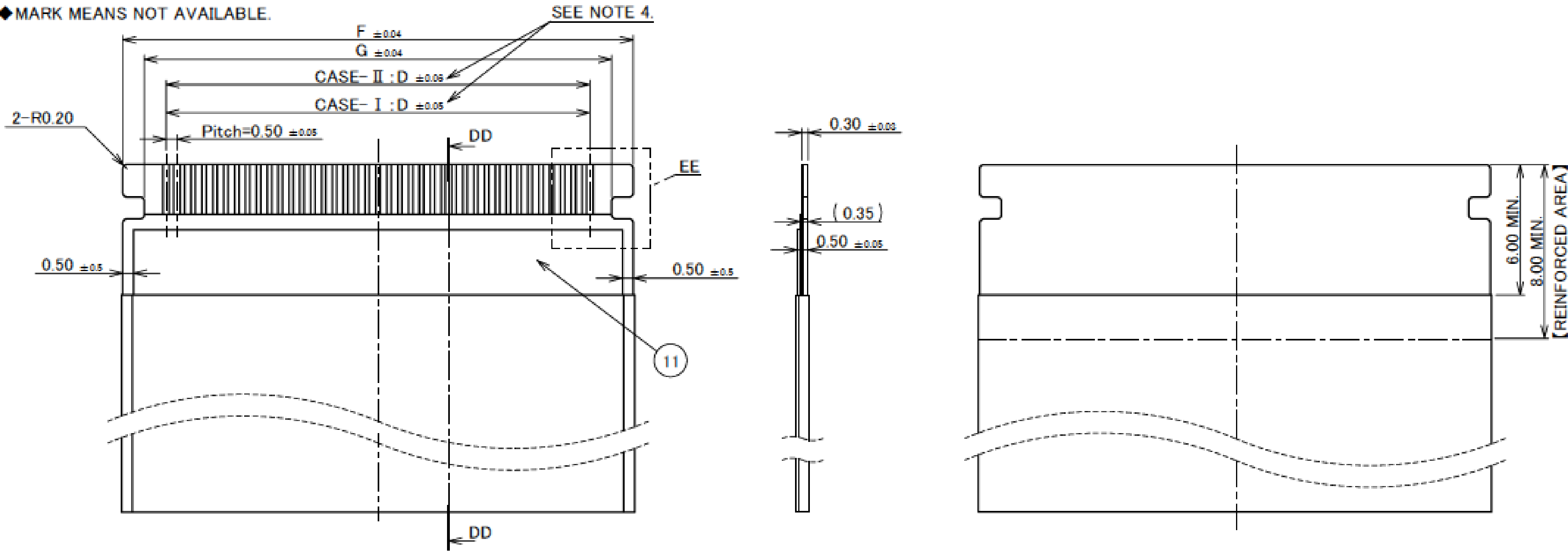
7	REINFORCED TAPE	ARBITRARY	
6	INSULATION FILM	ARBITRARY	
5	CONDUCTOR	COPPER ALLOY	CONTACT AREA : Au 0.05 μm MIN. OVER Ni 0.5 μm MIN.
NO.	COMPONENTS	MATERIAL	FINISH

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PART No.	D	F	G
◆20899-020E-01	9.50	13.50	11.50
20899-030E-01	14.50	18.50	16.50
◆20899-040E-01	19.50	23.50	21.50
20899-050E-01	24.50	28.50	26.50
◆20899-060E-01	29.50	33.50	31.50

◆MARK MEANS NOT AVAILABLE.

RECOMMENDED FFC LAYOUT
【SHIELDED TYPE】



NOTES.

4. MANUFACTURE CASE- I or II

5. DIFFERENTIAL IMPEDANCE : 100±10Ω

6. SELECT A MATERIAL WITH A SOFTENING TEMPERATURE OF 85°C OR HIGHER FOR THE PATTERN ADHESIVE PART OF FFC.

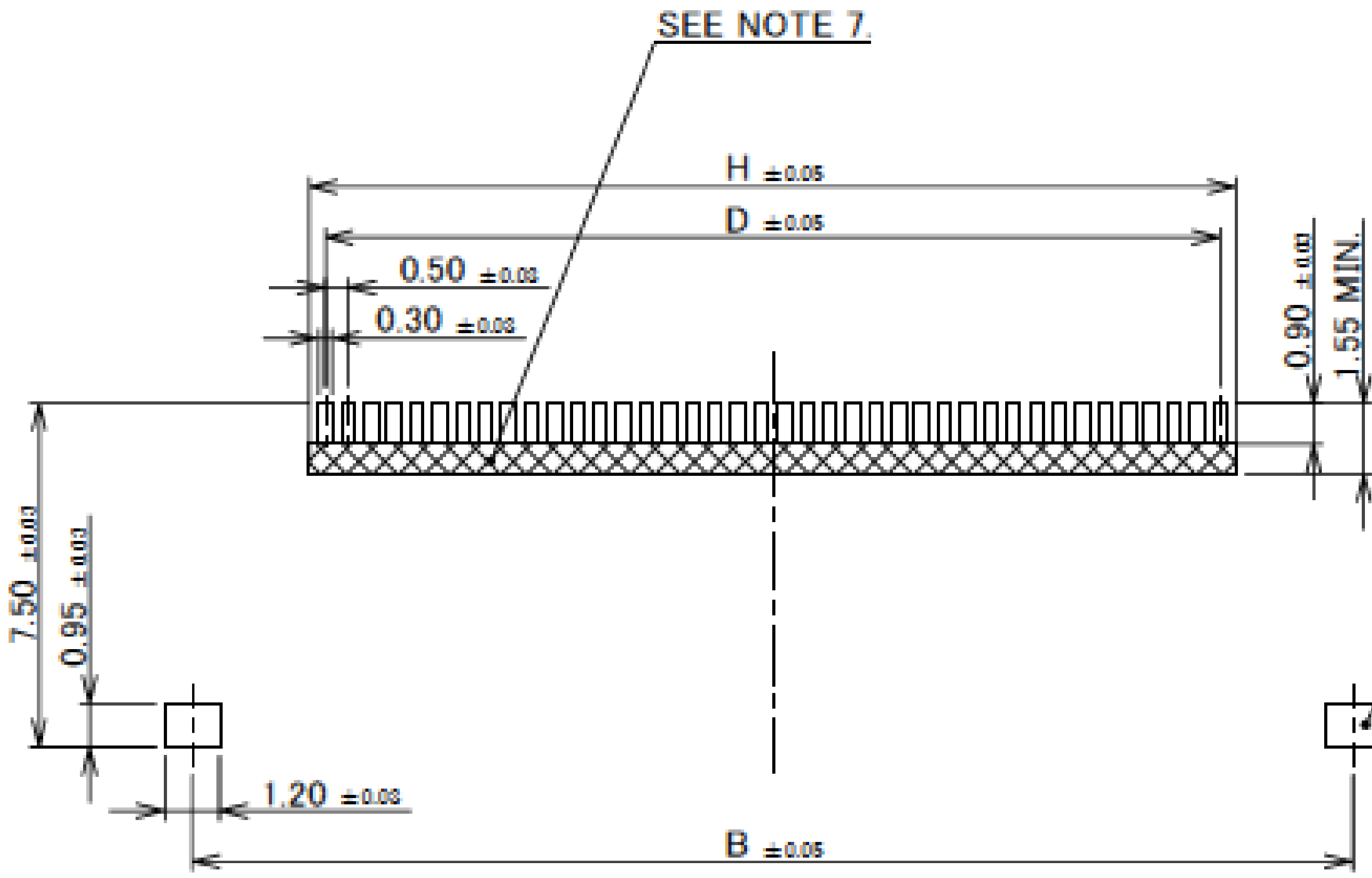
13	SHIELD TAPE	METALLIC FILM	
12	INTERLAYER	ARBITRARY	
11	GROUND PLATE	METALLIC FILM	POLISH or HALF POLISH Sn PLATING
10	REINFORCED TAPE	ARBITRARY	
9	INSULATION FILM	ARBITRARY	
8	CONDUCTOR	COPPER ALLOY	CONTACT AREA : Au 0.05 μm MIN. OVER Ni 0.5 μm MIN.
NO.	COMPONENTS	MATERIAL	FINISH

Rev.6

Connector Assembly

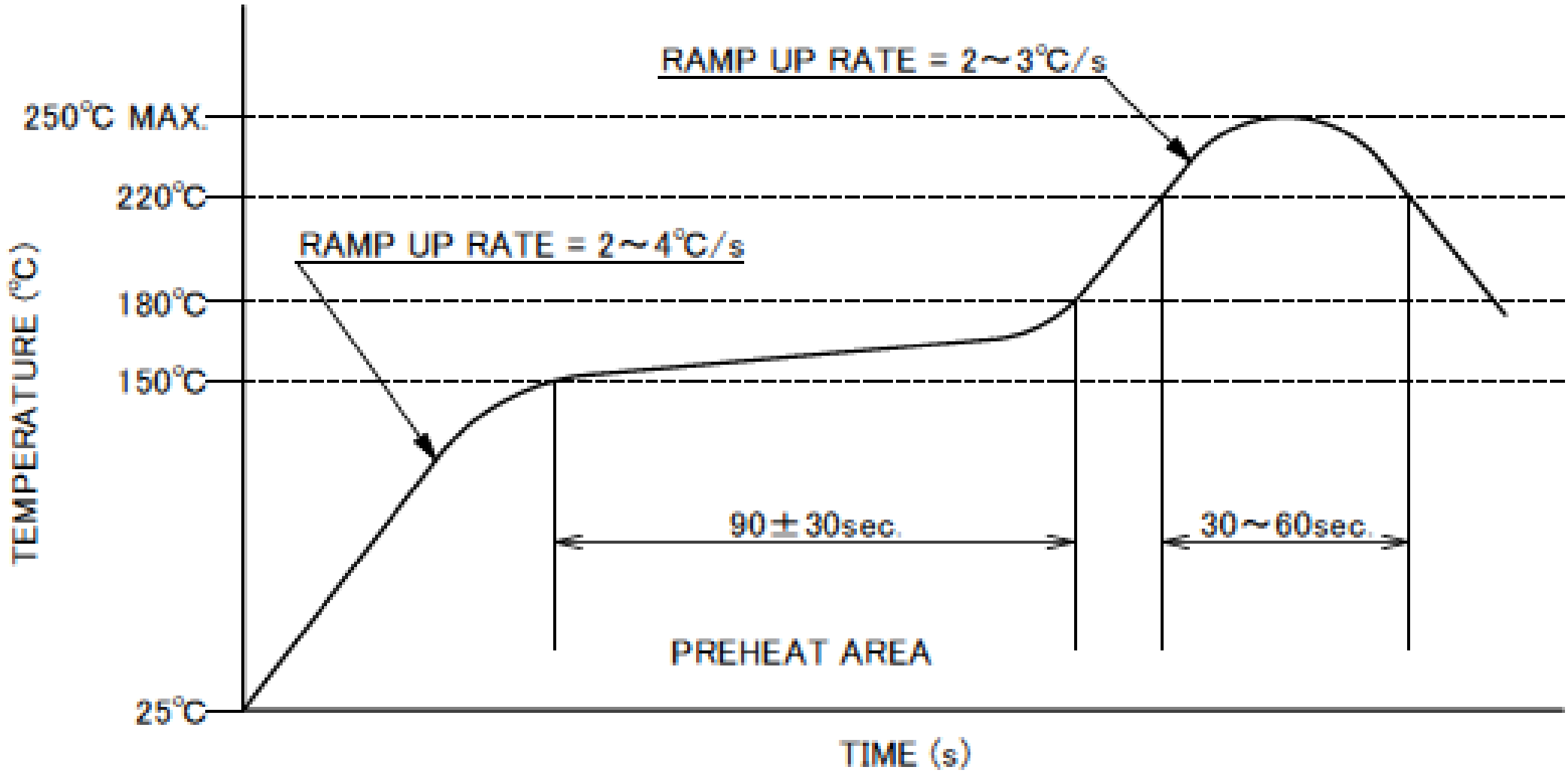
PART No.	B	D	H
◆20899-020E-01	15.30	9.50	10.20
20899-030E-01	20.30	14.50	15.20
◆20899-040E-01	25.30	19.50	20.20
20899-050E-01	30.30	24.50	25.20
◆20899-060E-01	35.30	29.50	30.20

◆MARK MEANS NOT AVAILABLE.

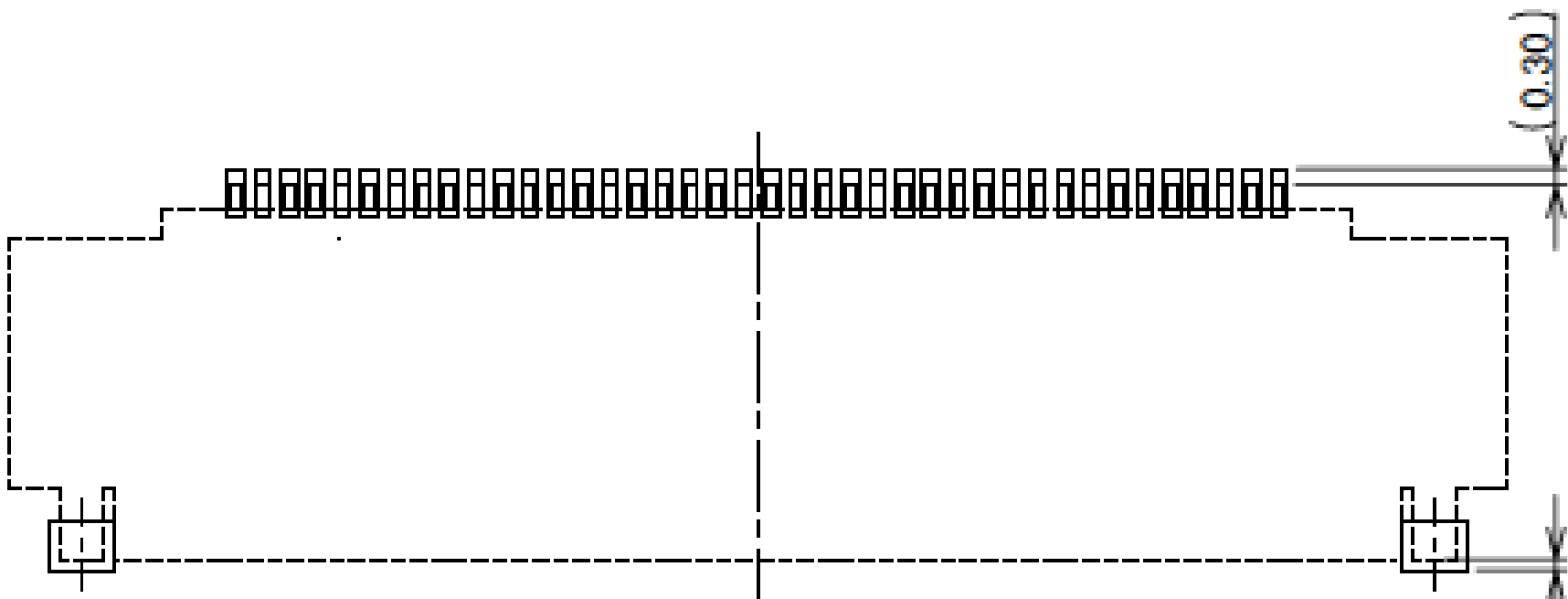


RECOMMENDED PCB & METAL MASK LAYOUT
METAL MASK THICKNESS : t=0.12mm

HOLD DOWN / ※GROUND PAD
(※WITH SHIELDED FPC / FFC)



REFLOW TEMPERATURE PROFILE
SENJU METAL INDUSTRY CO., LTD. : M705-SHF(Sn96.5 Ag3.0 Cu0.5)



CONNECTOR ON RECOMMENDED FOOTPRINT PATTERN

NOTES
7. SOLDER RESIST MUST BE APPLIED TO THIS AREA.

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ITEMS	SPECIFICATION
RATING VOLTAGE	50V AC/DC (PER CONTACT PIN)
RATING AMPERAGE	0.35A AC/DC (PER CONTACT PIN) AVAILABLE FOR ALL CONTACTS 0.5A AC/DC (PER CONTACT PIN) AVAILABLE UP TO 15 CONTACTS
OPERATING TEMPERATURE	233~398K(-40°C~+125°C)
OPERATING HUMIDITY	85% MAX.
CONTACT RESISTANCE	INITIAL : 60mohm MAX. / AFTER TEST : $\nless4$ 40mohm MAX.
INSULATION RESISTANCE	500Mohm MIN.
DIELECTRIC WITHSTANDING VOLTAGE	AC250V 1min
DURABILITY	50TH CYCLES
FPC/FFC MATING FORCE (INITIAL / 50TH CYCLES)	20P : 15.00 N MAX. 30P : 22.00 N MAX. 40P : 29.00 N MAX. 50P : 36.00 N MAX. 60P : 43.00 N MAX.
FPC/FFC UNMATING FORCE (INITIAL / 50TH CYCLES)	20P : 2.00 N MIN. 30P : 2.70 N MIN. 40P : 3.40 N MIN. 50P : 4.10 N MIN. 60P : 4.80 N MIN.
FPC/FFC RETENTION FORCE (INITIAL / AFTER TEST)	20P : 11.00 N MIN. 30P : 11.70 N MIN. 40P : 12.40 N MIN. 50P : 13.10 N MIN. 60P : 13.80 N MIN.
COPLANARITY	0.10 MAX.
PRODUCT SPECIFICATION	PRS-2470
TEST REPORT	TR-18020
PACKING STANDARD	PST-19019
INSTRUCTION MANUAL	HIM-18018
APPEARANCE CRITERIA No.	QLS-A***

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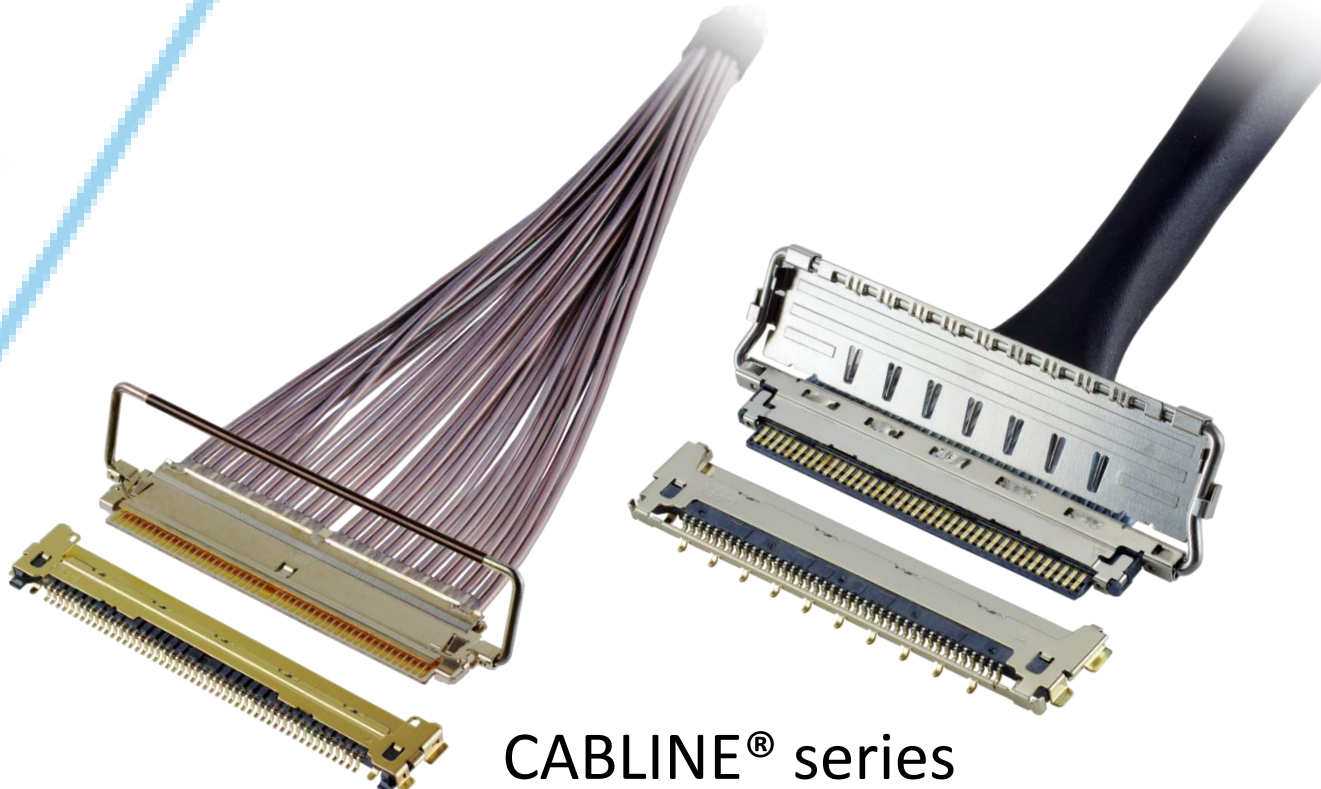
Custom Connectors Available

 RF
Connectors

MHF® series



CABLINE® series



Micro-coaxial/Twinax
Connectors

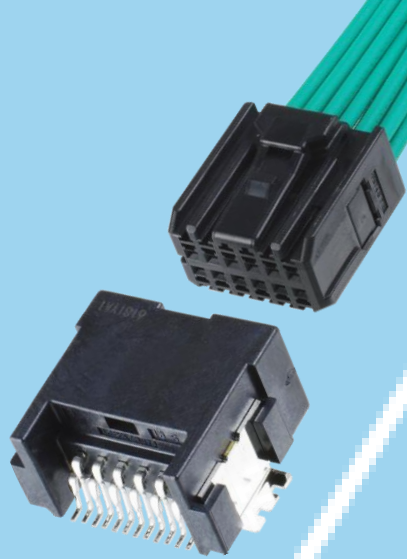


Wire-to-Board
Connectors/
Terminals

AP series



ISH® series



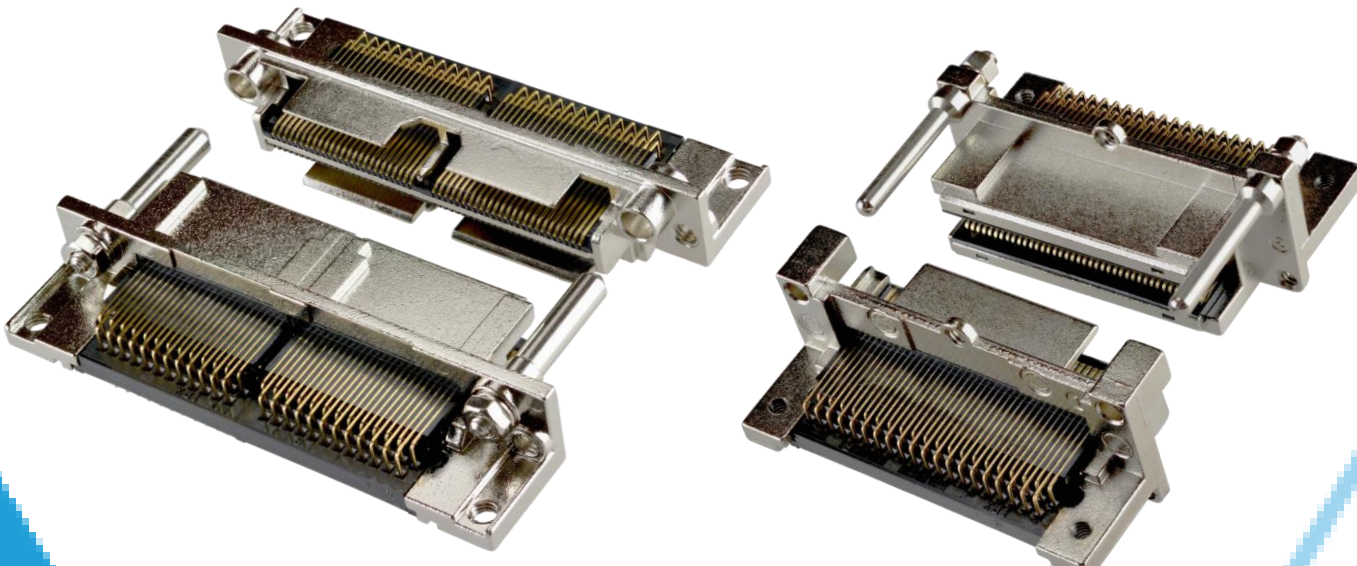
NOVASTACK® series



Board-to-Board
Connectors



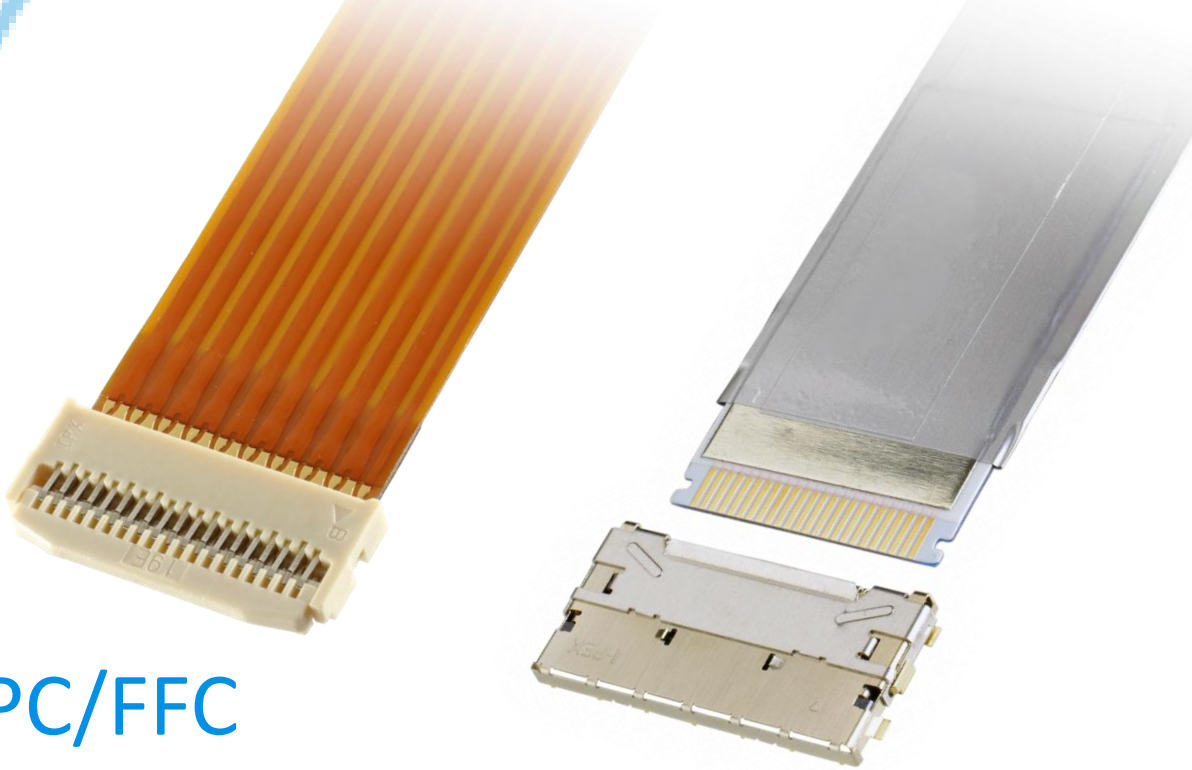
I/O
Connectors



MINIDOCK™ series

MINIFLEX® series

EVAFLEX® series



FPC/FFC
Connectors



Inquiry



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