

CABLINE®-VS IIF

全屏蔽设计和机械锁扣，适用于高速数据传输 (32 Gbps/lane)，0.5mm 间距，水平对插款的FPC 型公头连接器

Product Specifications:

Mating type		Horizontal
Board Pitch		0.5 mm
Wiping Length		0.48 mm
Mated Size	Height	1.2 mm max. with cover
	Width	6.85 + (0.5 x pin count) mm
	Depth	7.24 mm
Pin Counts	Range	Up to 60
	Available	30, 40

Applicable FPC

FPC Type	Shielded FPC
FPC Pitch	0.5 mm
FPC Contact Point	Top
FPC Thickness	Contact Area: 0.25 + 0.02/-0.03 mm
	Ground Area: 0.37 + 0.04/-0.06 mm

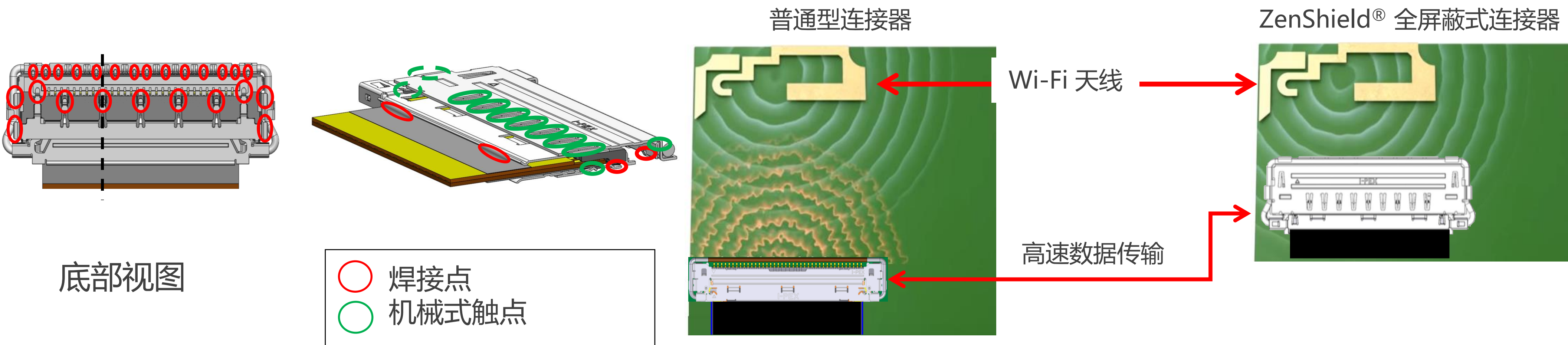
Applicable Standards (Reference Only):

32 Gbps/ Lane, USB4 Gen4 (40 Gbps/ Lane PAM3)
Display Port UHBR20 (20 Gbps/Lane)

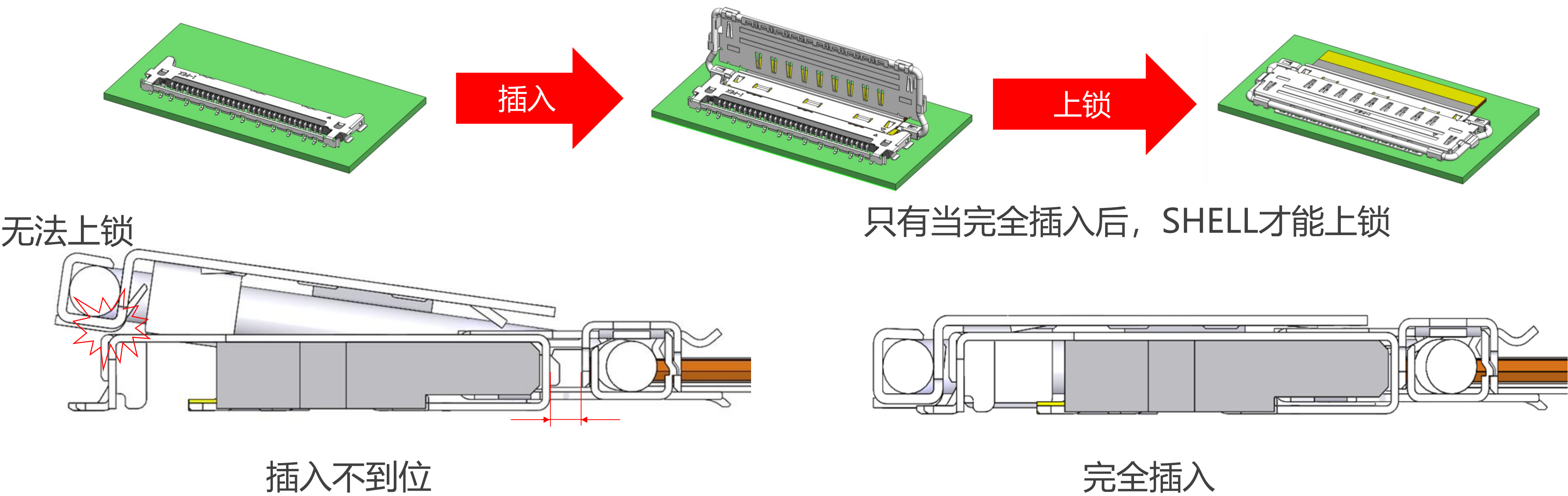
*如您需要了解未列出或不在范围内的Pin数，请咨询我们。



► ZenShield® 的全屏蔽设计和多点接地结构， EMC 解决方案的理想选择



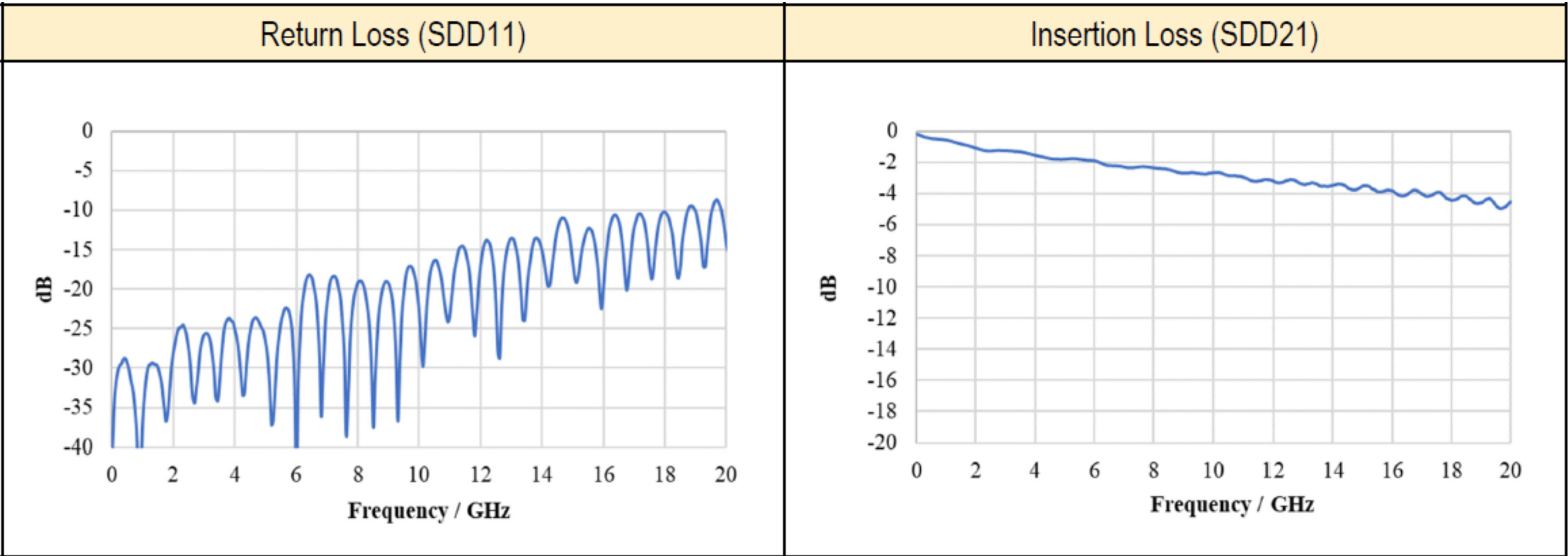
► 机械式锁扣罩防止连接器不完全嵌合及脱落



► 高速率传输, 32Gbps/lane应用的理想之选

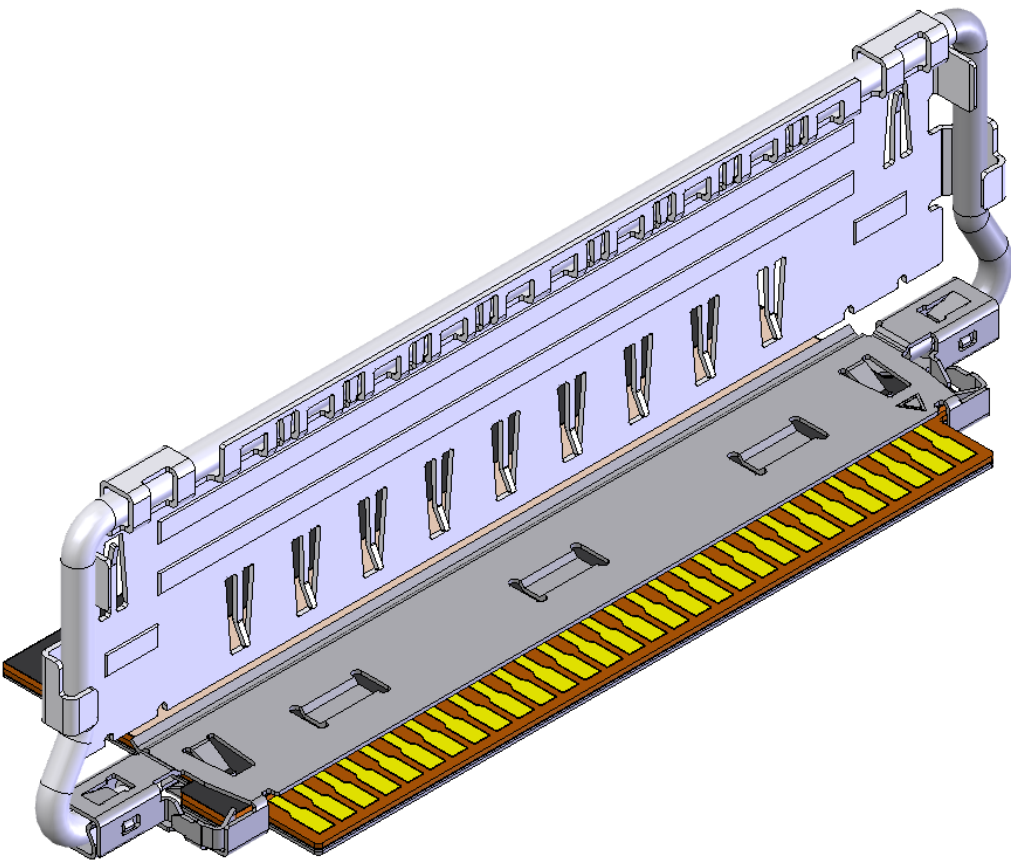
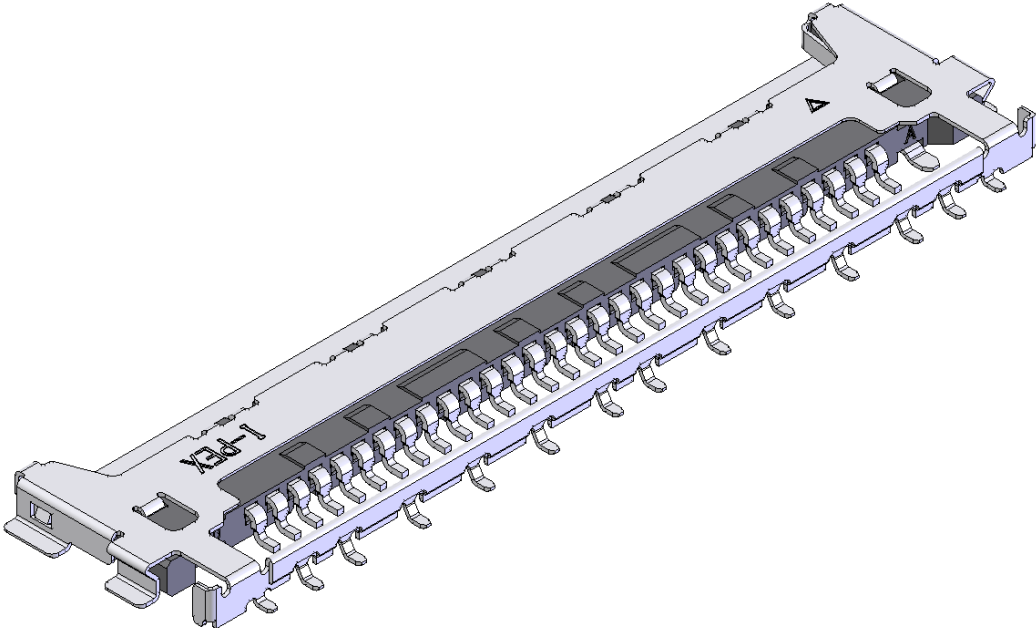
Measurement results

Connector: CABLINE-VS IIF 40 pin
FPC: Shielded FPC,
Differential 85 ohm, Length : 100 mm
Pin Assignment: GSSGSSG



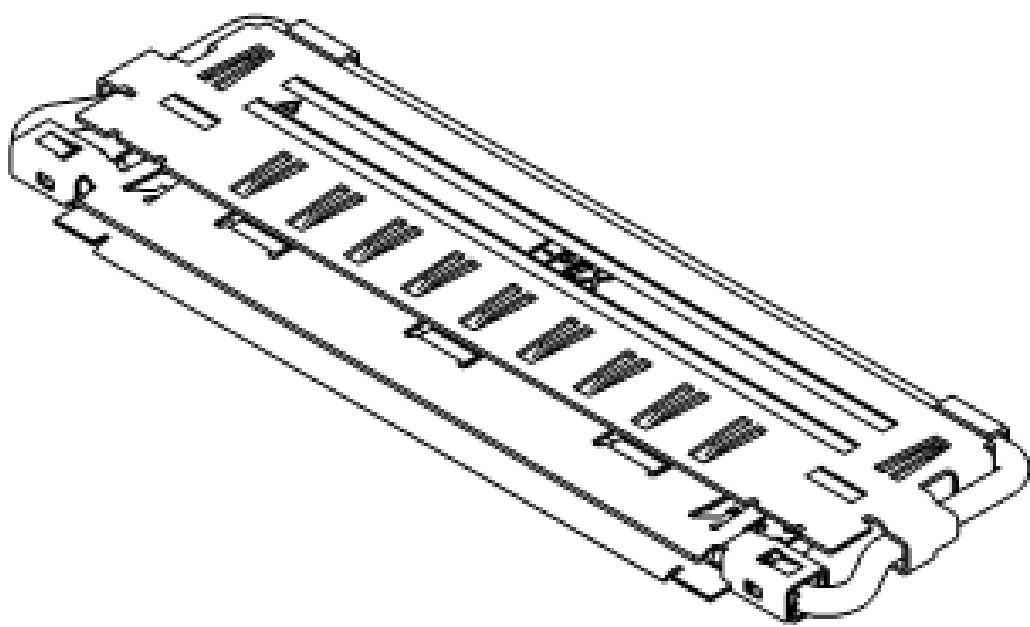
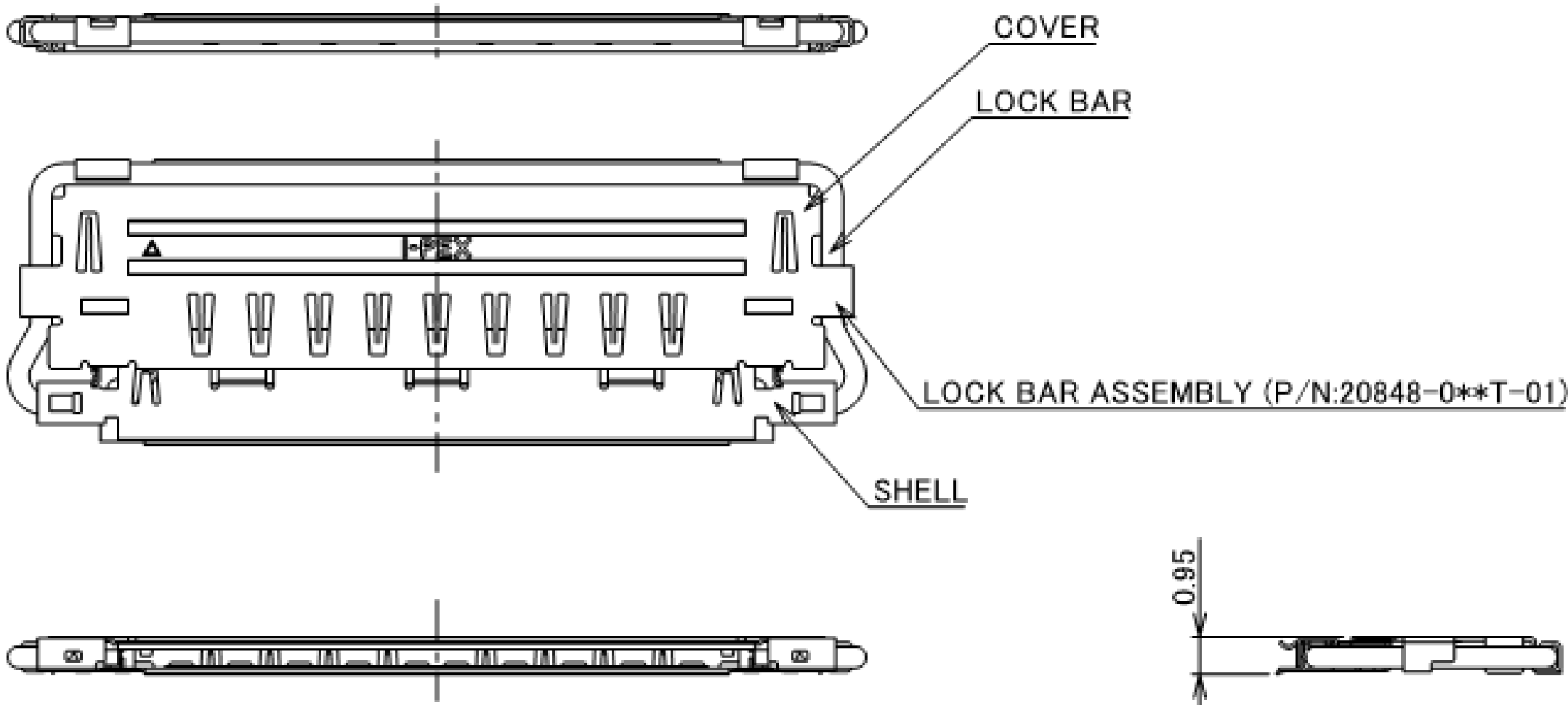
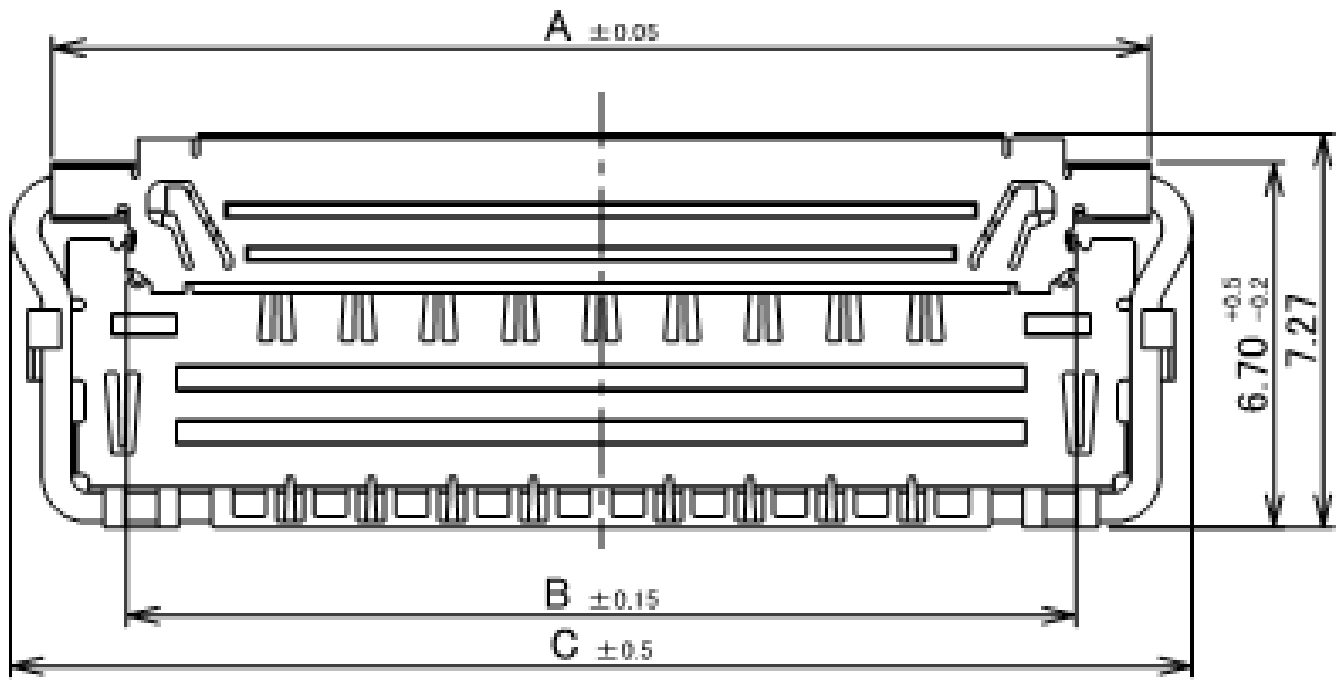
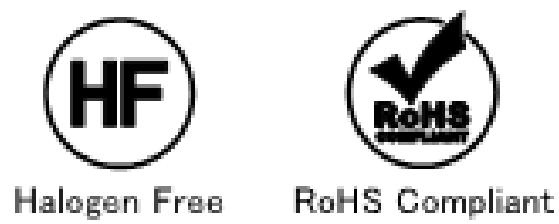
Component Parts Details

Component Parts

Connector parts
 CABLINE-VS IIF PLUG with FPC
 CABLINE-VS II RECEPTACLE

Shell Assembly

Recommended P/N		20862-0**T-01			
PART No.	Pos.	A	B	C	
20862-030T-01	30	20.30	17.56	21.85	
20862-040T-01	40	25.30	22.56	26.85	

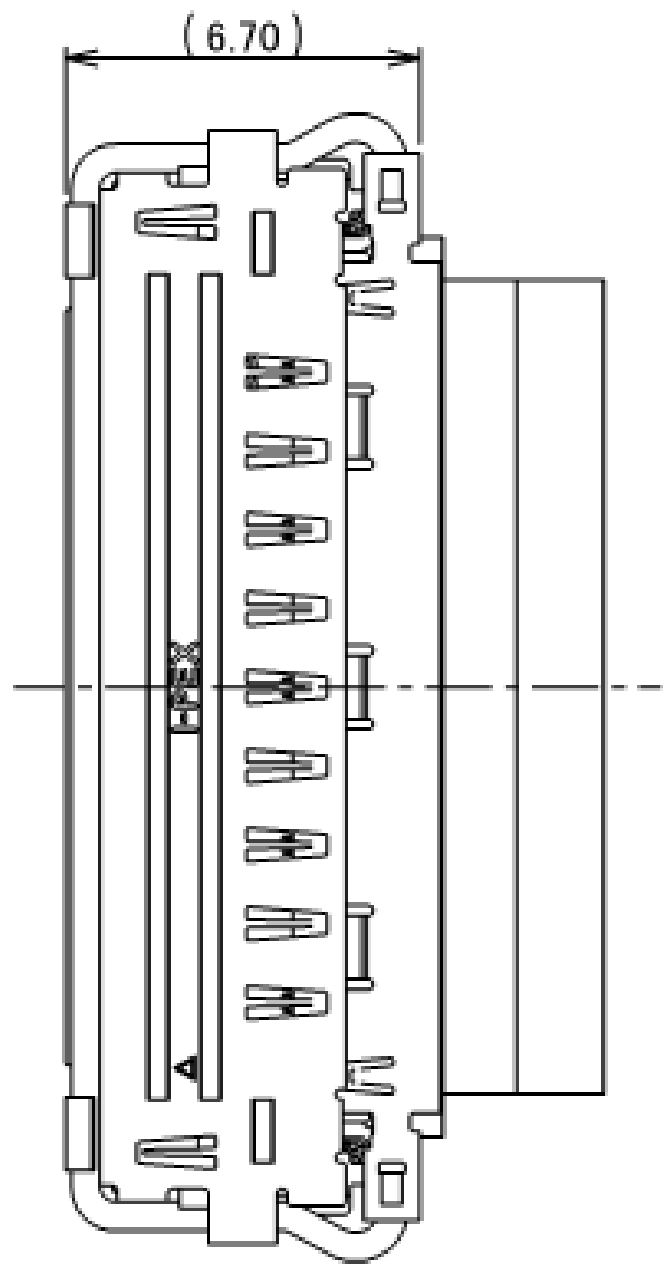
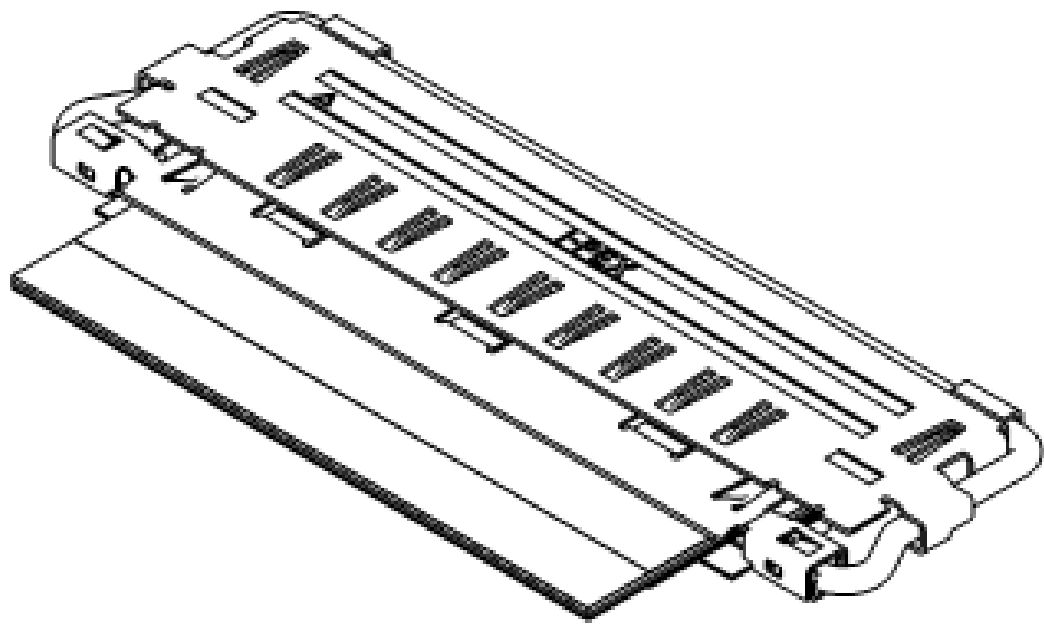
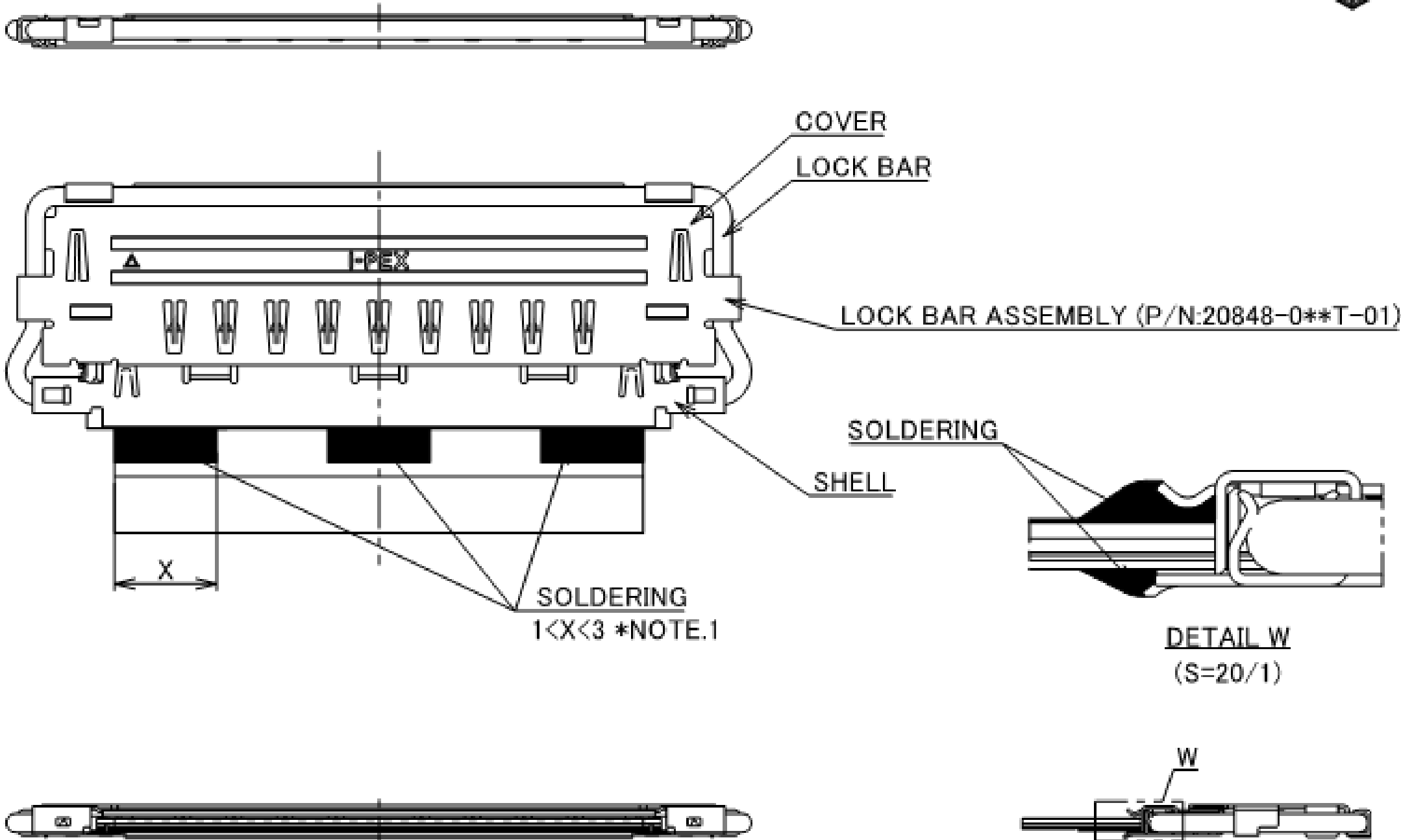
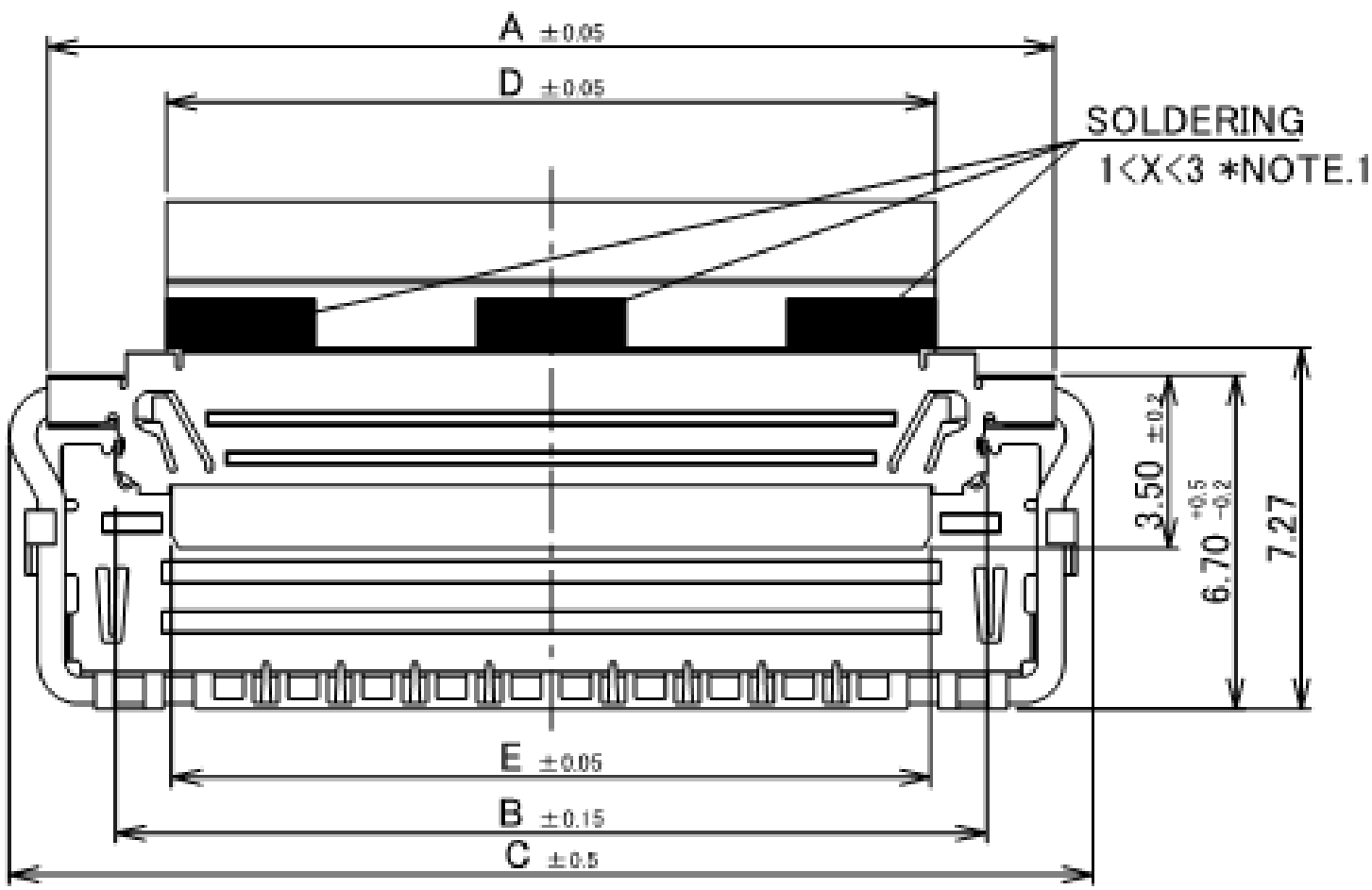
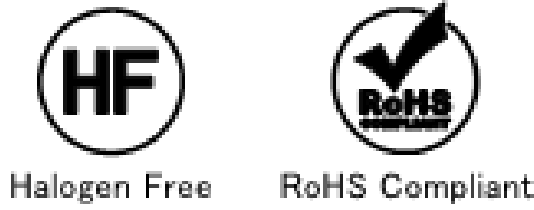


3	COVER	PHOSPHOR BRONZE	Ni 1.00 μ m MIN.
2	LOCK BAR	STAINLESS STEEL	-
1	SHELL	PHOSPHOR BRONZE	PARTIAL Au 0.003 μ m MIN. OVER Ni 1.00 μ m MIN.
NO.	DISCRIPTION	MATERIAL	FINISH , REMARKS

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Recommended P/N		20862-0**T-01					
PART No.	Pos.	A	B	C	D	E	
20862-030T-01	30	20.30	17.56	21.85	15.50	15.30	
20862-040T-01	40	25.30	22.56	26.85	20.50	20.30	

FPC ASSEMBLY STATE COVER CLOSE

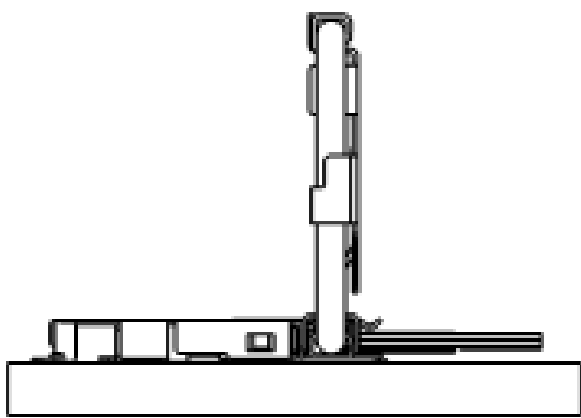
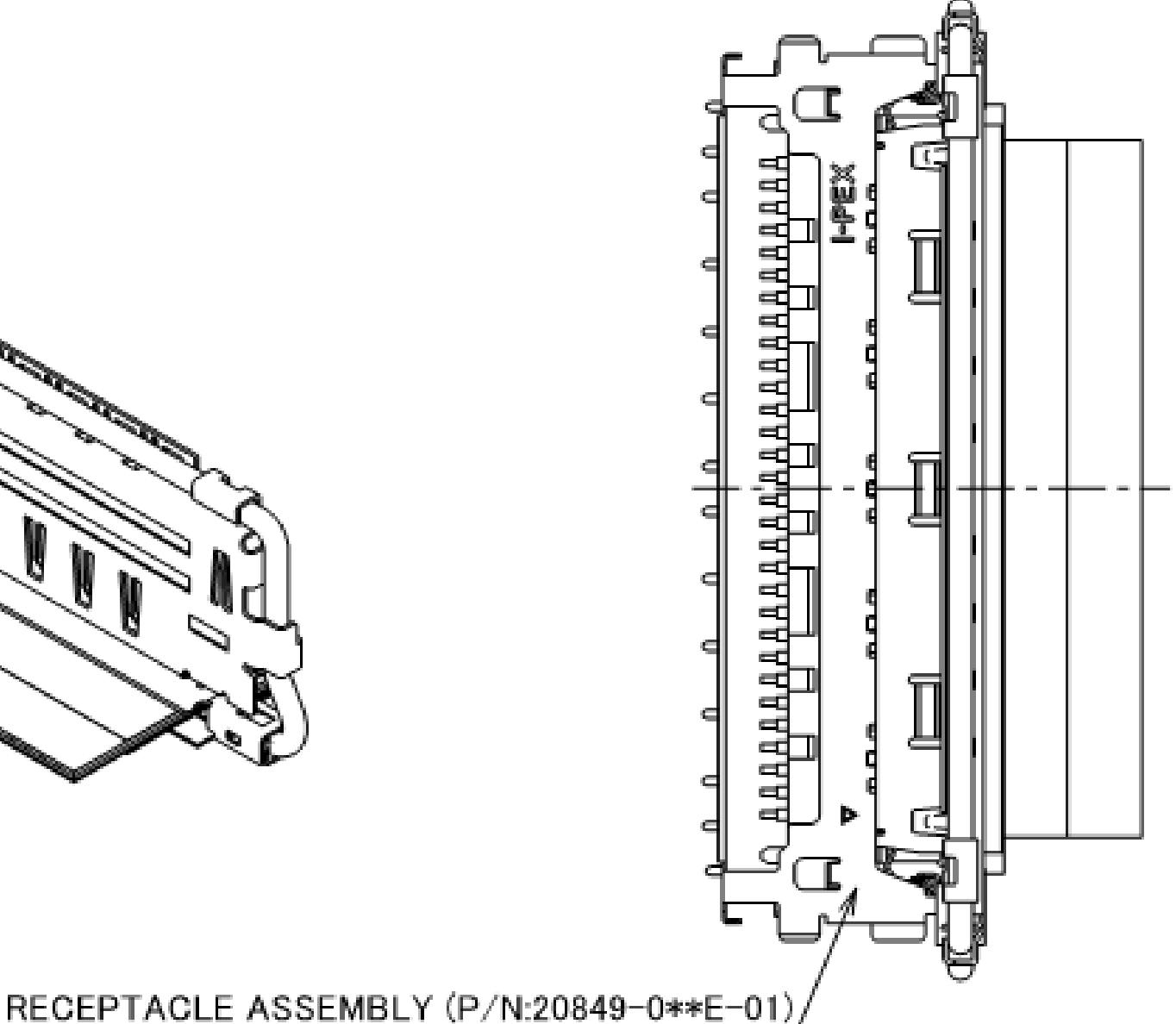
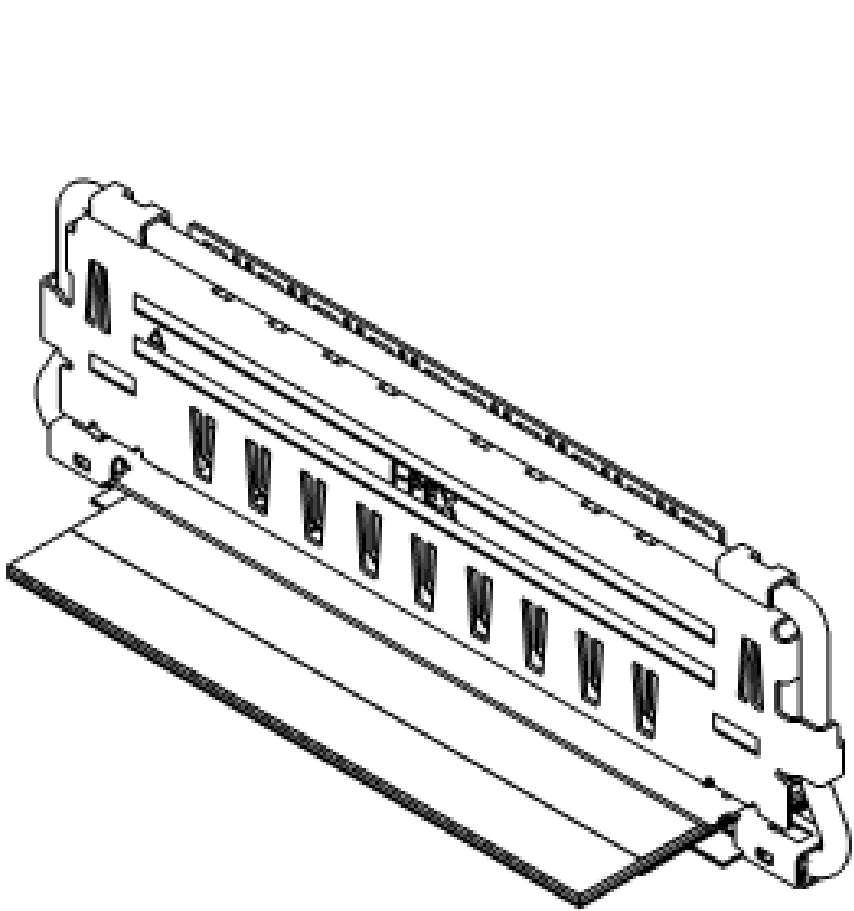
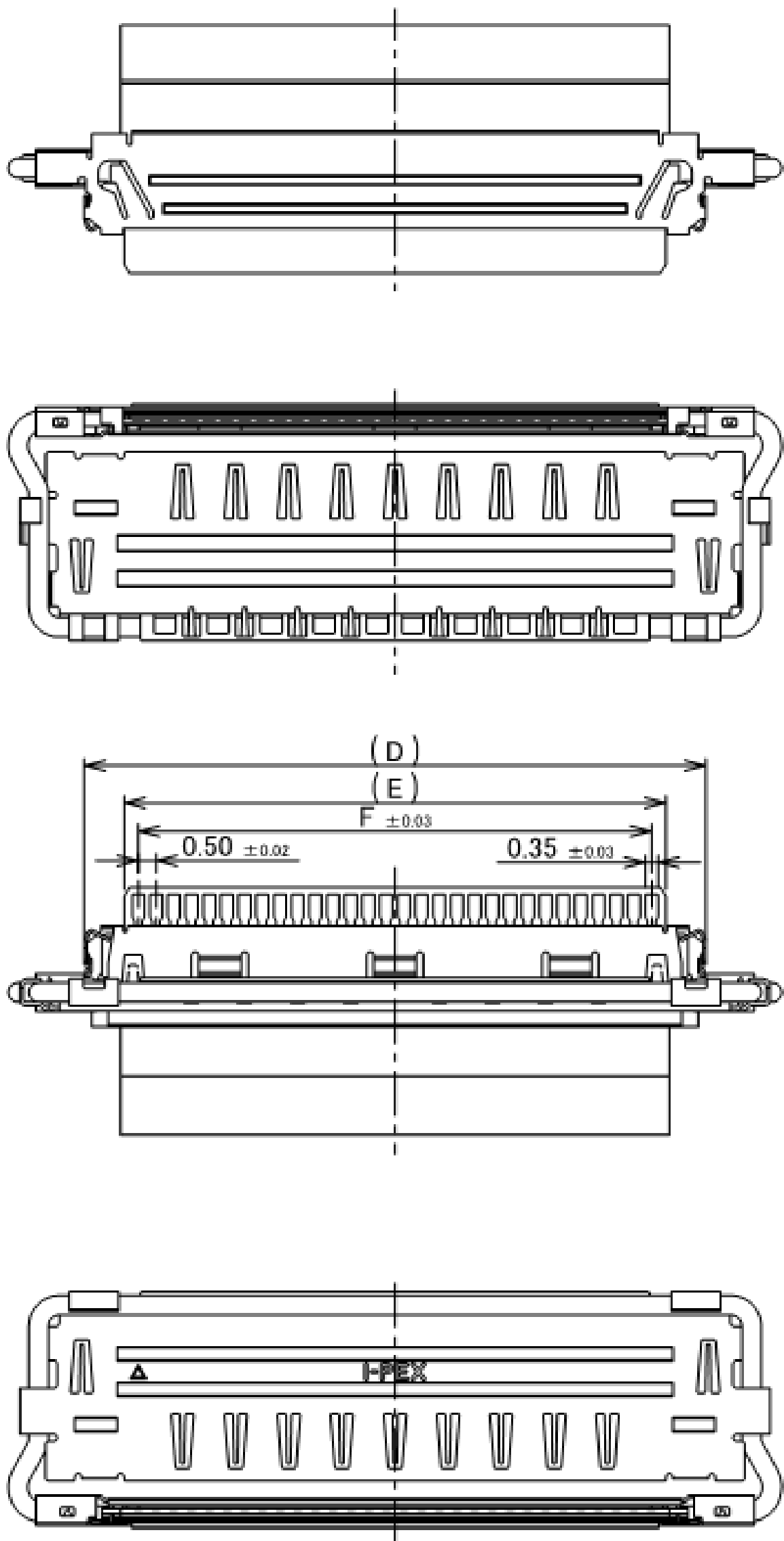
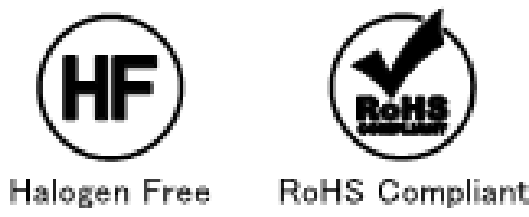


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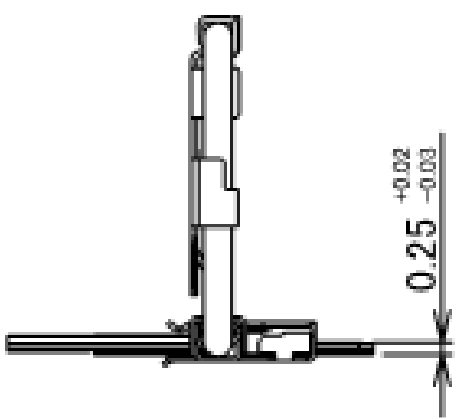
Shell Assembly

Recommended P/N		20862-0**T-01			
PART No.	Pos.	D	E	F	
20862-030T-01	30	17.56	15.30	14.50	
20862-040T-01	40	22.56	20.30	19.50	

FPC ASSEMBLY STATE COVER OPEN

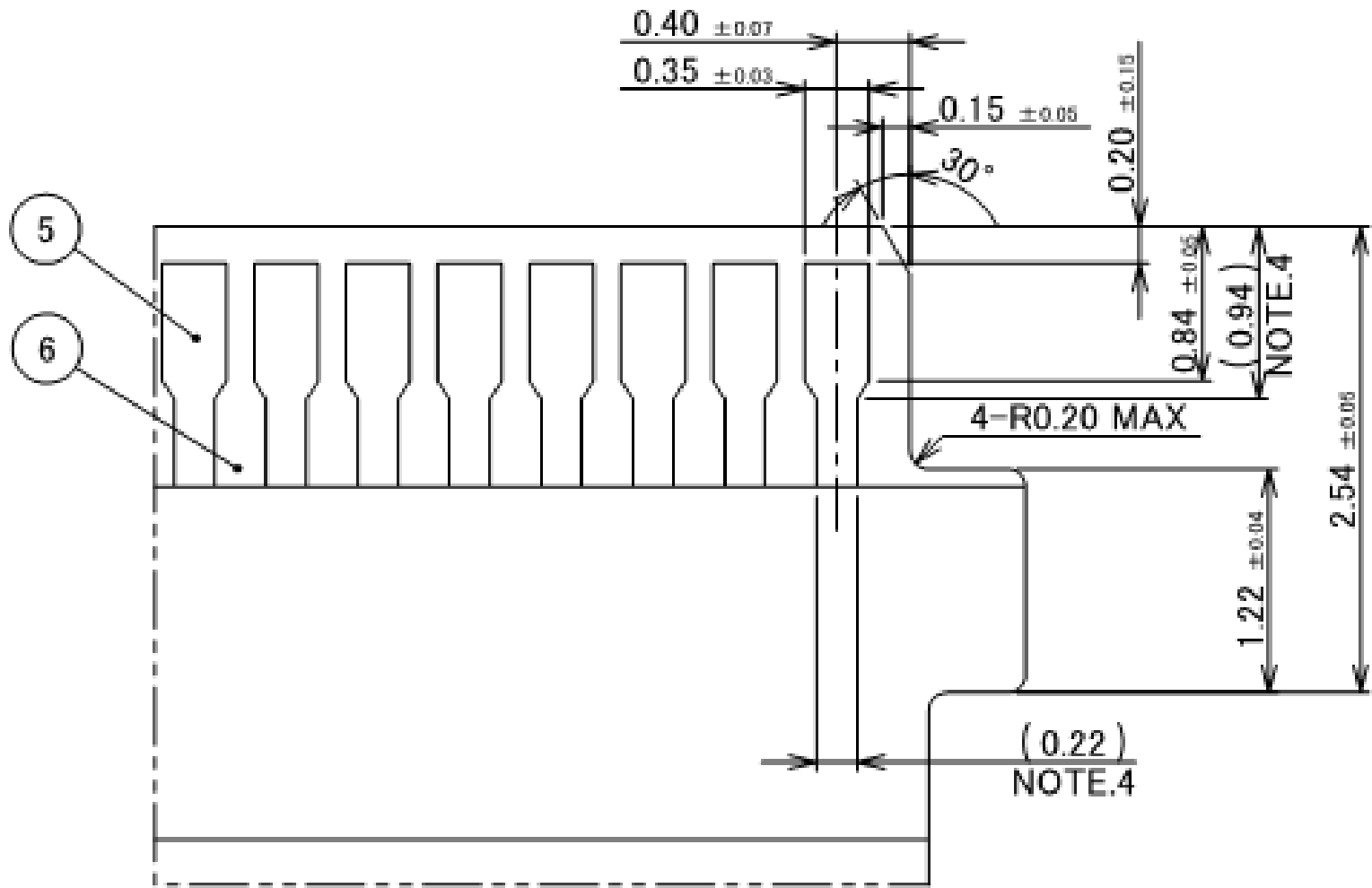
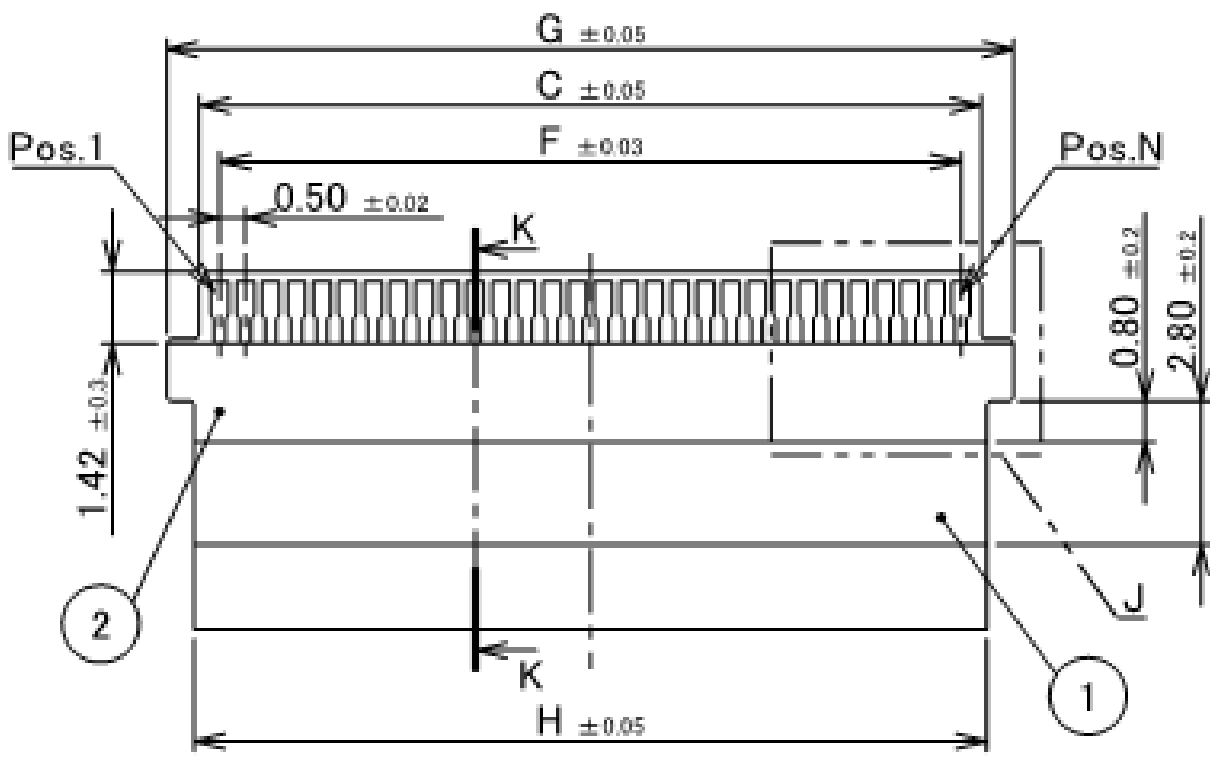


MATING CONDITION



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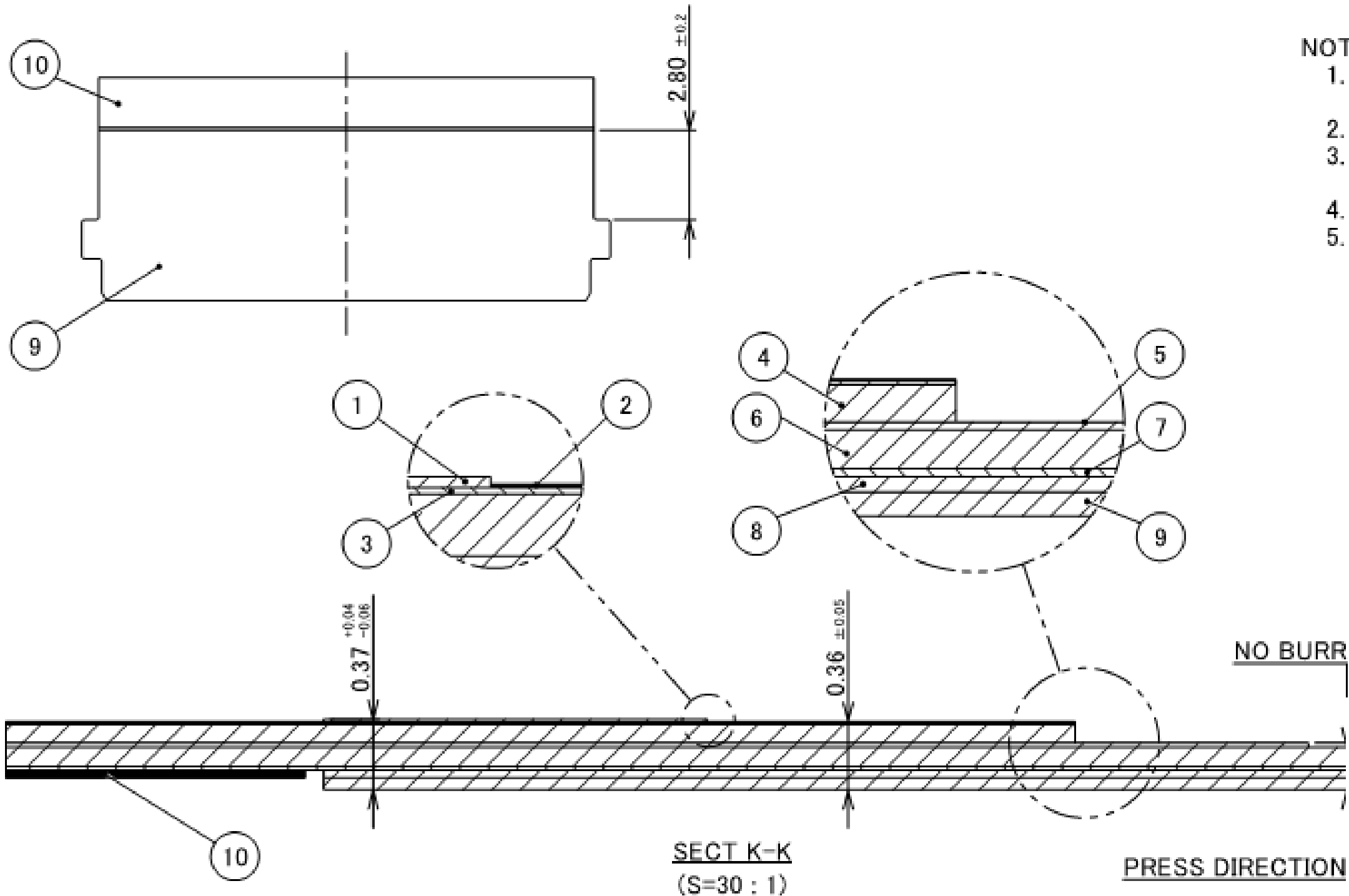
PART No.	Pos.	C	F	G	H
20862-030T-01	30	15.30	14.50	16.56	15.50
20862-040T-01	40	20.30	19.50	21.56	20.50



DETAIL J
(S=20/1)

- NOTES.
- No.1,3,7,9: CONDUCTOR(GROUND) ARE CARRYING OUT THE ELECTRICAL CONNECTION.
 - No.5: SIGNAL Pos. AND No.1,3,7,9: CONDUCTOR(GROUND) ARE NOT CONTACTING.
 - No.5: GROUND Pos. AND No.1,3,7,9: CONDUCTOR(GROUND) ARE CARRYING OUT THE ELECTRICAL CONNECTION.
 - ADHESIVE SHOULD USE THERMOSETTING.
 - NUMBERS WITHIN PARENTHESES ARE ARBITRARY DIMENSIONS. CHANGE DIMENSIONS IN ACCORDANCE WITH CHARACTERISTIC IMPEDANCE VALUE.

1	CONDUCTOR(GROUND)	Cu	Ni , Au
2	INSULATOR	-	-
3	CONDUCTOR(GROUND)	Cu	-
4	INSULATOR	-	-
5	CONDUCTOR(SIGNAL,GROUND)	Cu	Ni , Au
6	INSULATOR	-	-
7	CONDUCTOR(GROUND)	Cu	-
8	CONDUCTIVE ADHESIVE	-	-
9	REINFORCING TAPE & CONDUCTOR(GROUND)	SUS	Ni
10	INSULATOR	-	-
No.	DESCRIPTION	MATERIAL	PLATING



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Shell Assembly

ITEMS	SPECIFICATION
RATING VOLTAGE	100V AC (PER CONTACT PIN)
RATING AMPERAGE (FOR SIGNAL CONTACT)	0.3A AC/DC (PER CONTACT PIN)
OPERATING TEMPERATURE	233~358K(-40℃~+85℃)
OPERATING HUMIDITY	85% MAX.(NON-CONDENSING)
CONTACT RESISTANCE (FOR SIGNAL CONTACT)	INITIAL : 60mohm MAX. / AFTER TEST : $\triangle$ 40mohm MAX.
GROUND SHELL RESISTANCE	INITIAL : 60mohm MAX. / AFTER TEST : $\triangle$ 40mohm MAX.
INSULATION RESISTANCE	INITIAL : 1000Mohm MIN. / AFTER TEST : 500Mohm MIN.
DIELECTRIC WITHSTANDING VOLTAGE	AC250V 1min
DURABILITY	30 CYCLES
MATING FORCE (INITIAL / AFTER TEST)	30P : 13.50N MAX. 40P : 18.00N MAX.
UNMATING FORCE (INITIAL / AFTER TEST)	30P : 1.44N MIN. 40P : 1.92N MIN.
PRODUCT SPECIFICATION	PRS-2430
TEST REPORT	TR-17086
PACKING STANDARD	PST-17134
INSTRUCTION MANUAL	HIM-17039
ASSEMBLY MANUAL	ASM-17010
APPEARANCE CRITERIA No.	QLS-A***

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Receptacle Assembly

Recommended P/N		20849-0**E-01				
PART NO.	Pos.	A	B	C	D	E
20849-020E-0#	20	11.30	9.50	14.33	15.10	11.91
20849-030E-0#	30	16.30	14.50	19.33	20.10	16.91
20849-040E-0#	40	21.30	19.50	24.33	25.10	21.91

P/N : 20849- 0 ** E- 0 #
SEE TABLE 1
POS.

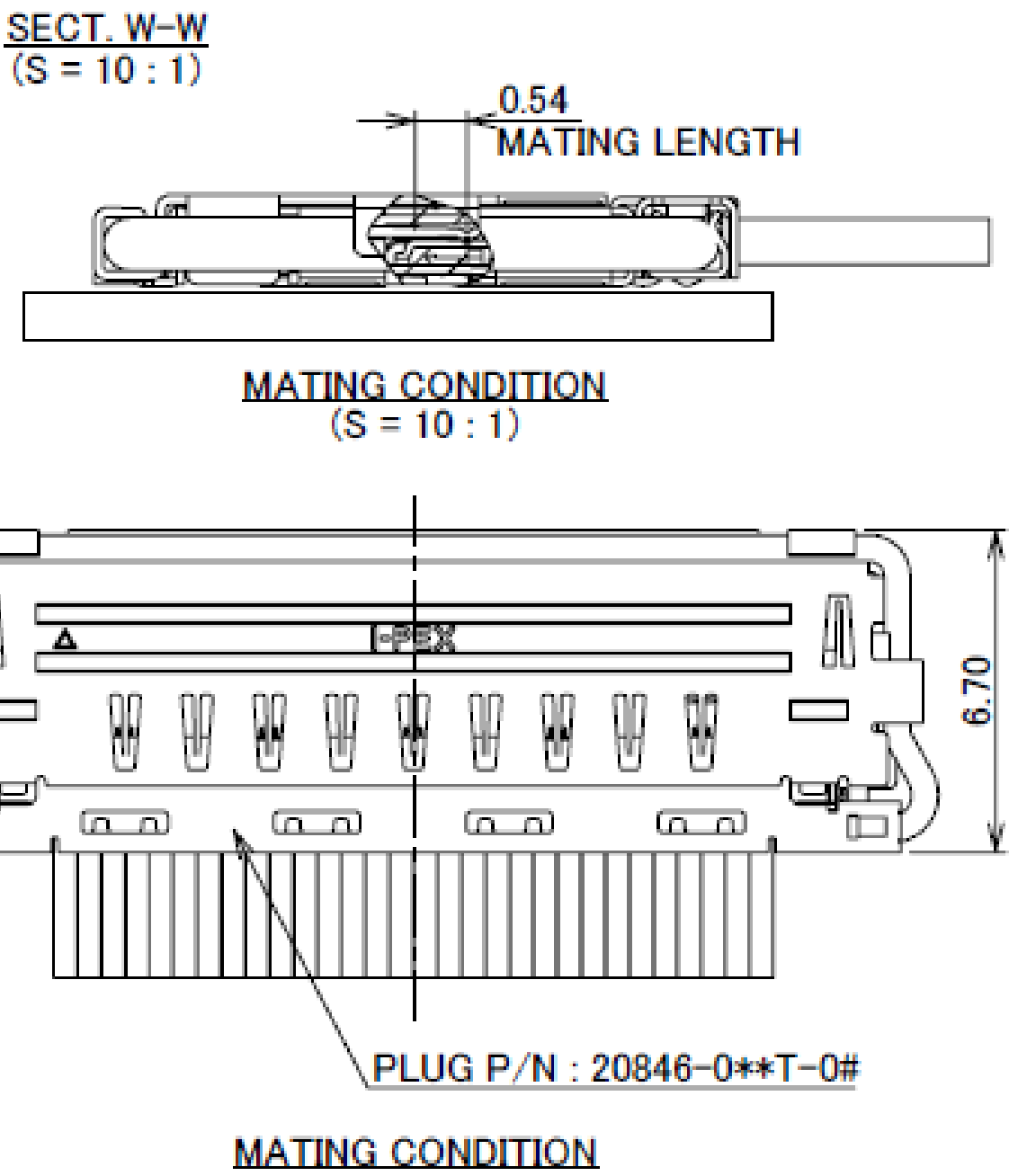
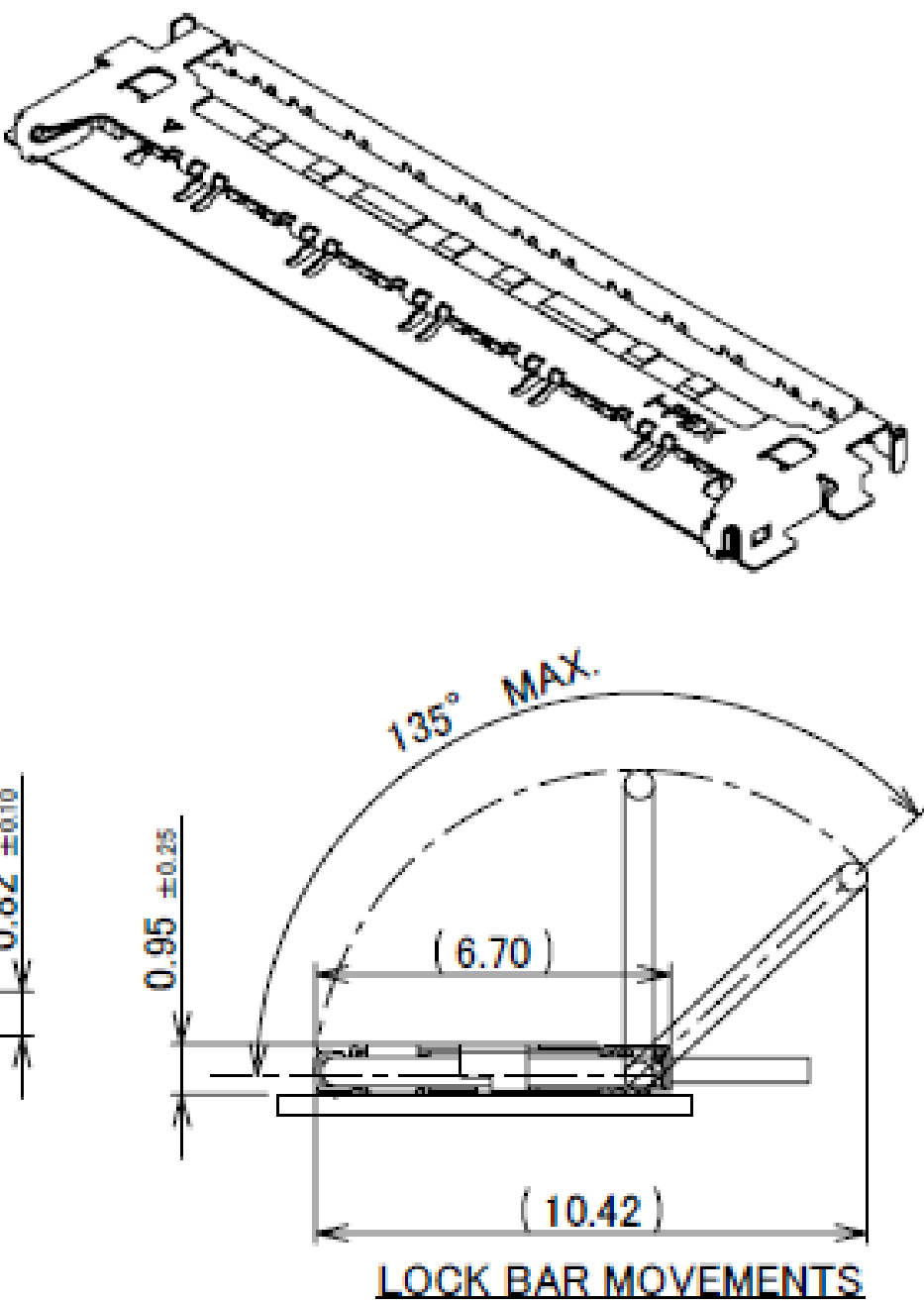
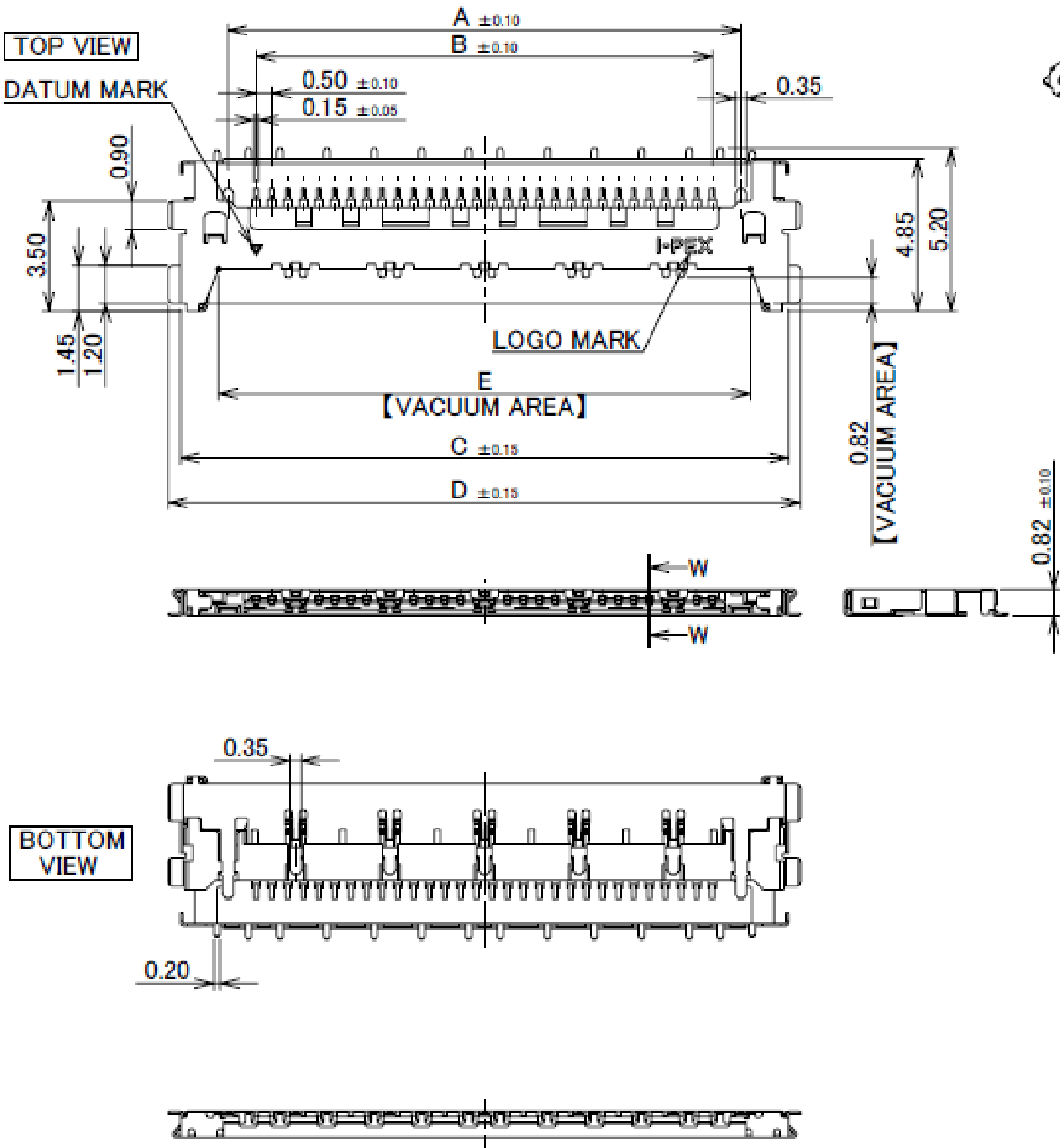
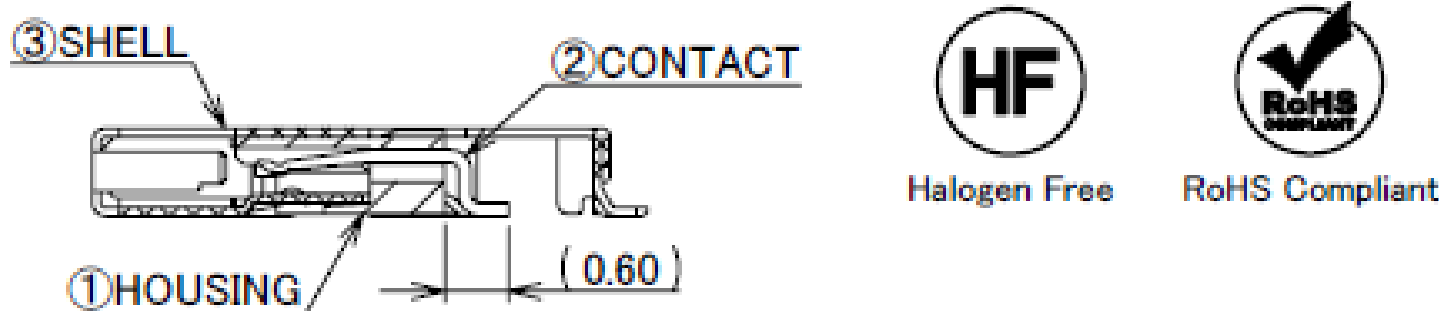


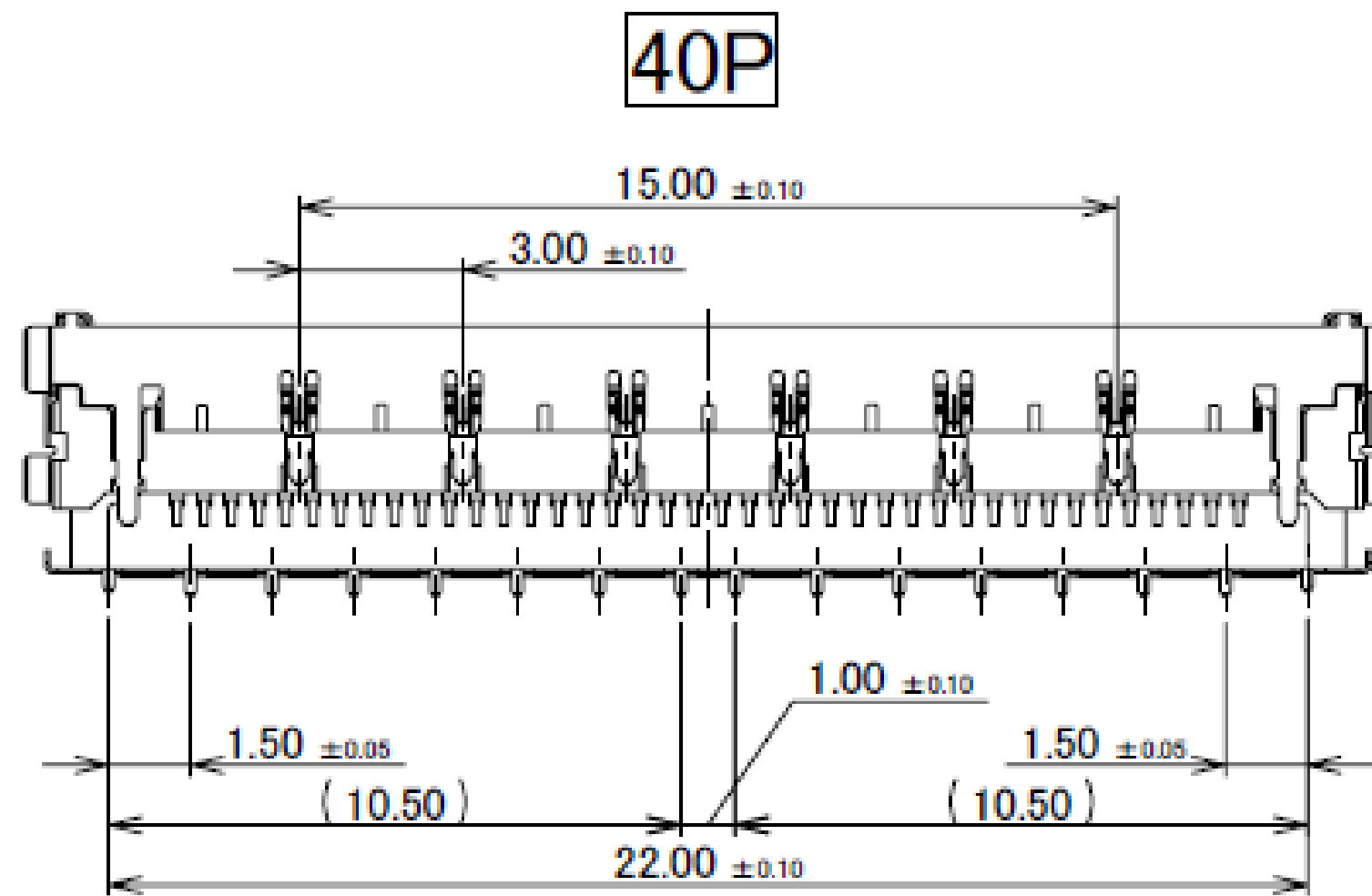
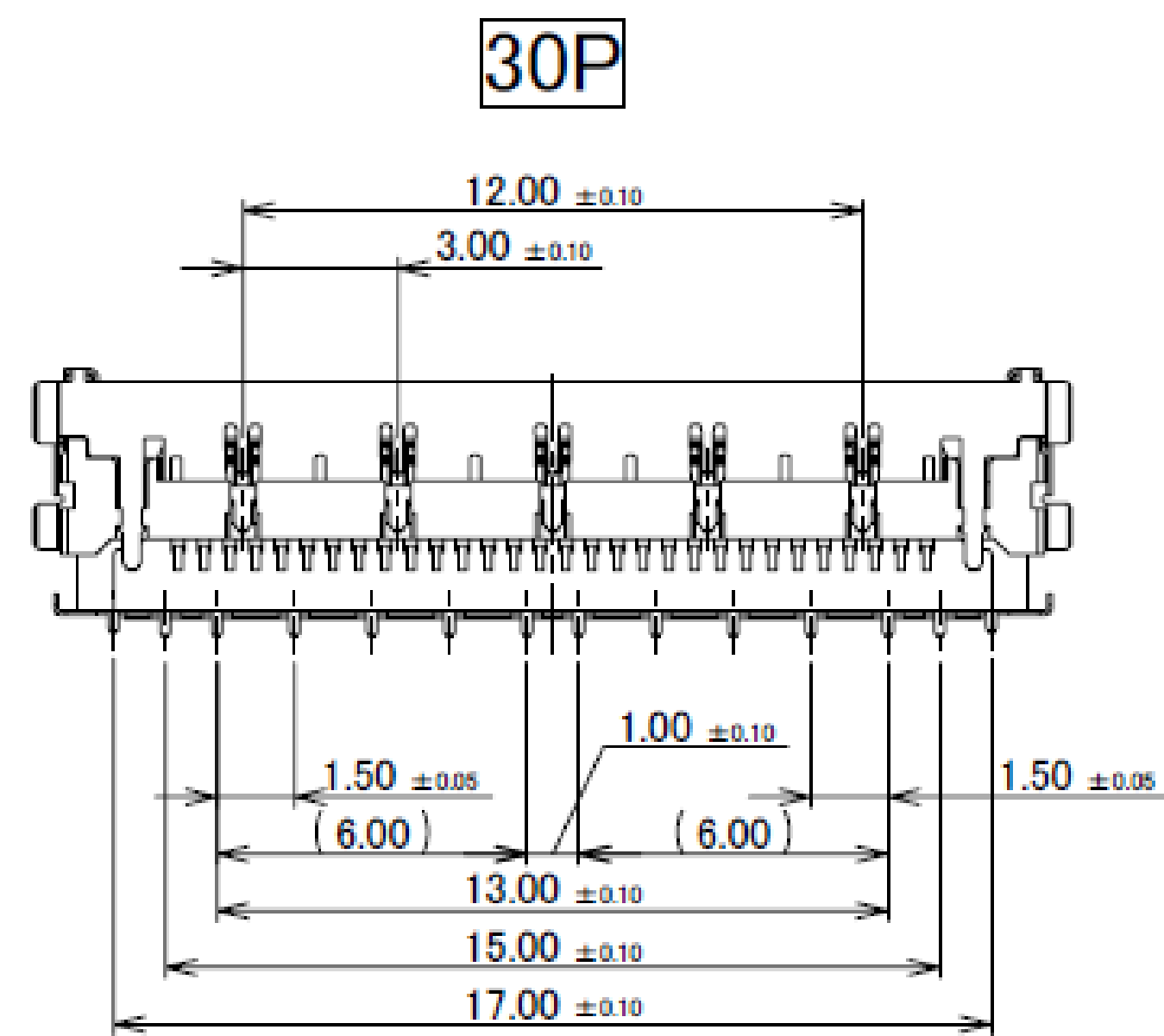
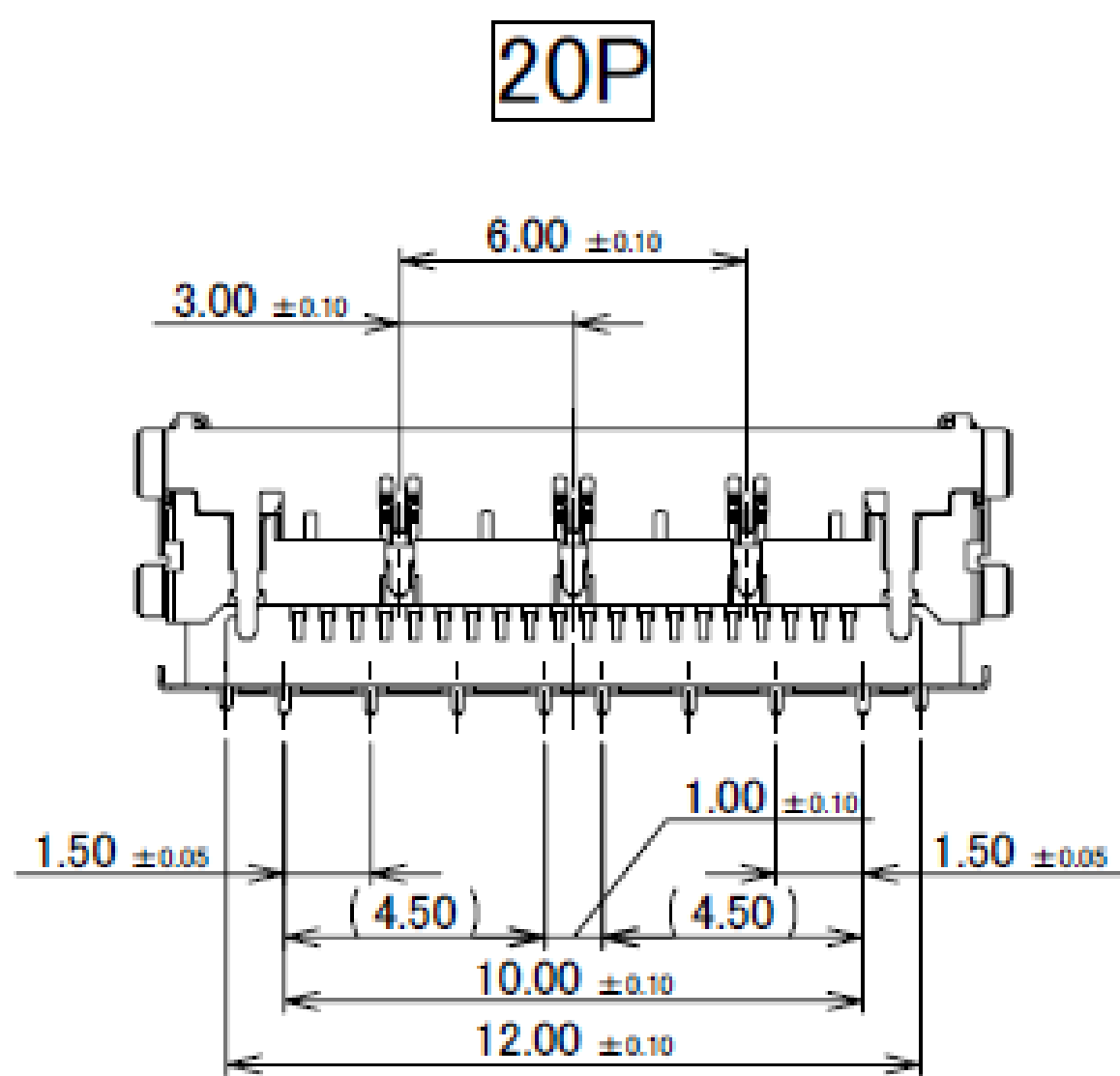
TABLE.1		CONTACT FINISH	SHELL FINISH
PART NO.			
20849-0**E-01		CONTACT & SOLDERING AREA : Au 0.03 μ m MIN. OVER Ni 1.00 μ m MIN.	ALL OVER Ni 1.00 μ m MIN. SOLDERING AREA : Au 0.02 μ m MIN.
20849-0**E-02		CONTACT AREA : Au 0.38 μ m MIN. OVER Ni 1.27 μ m MIN. SOLDERING AREA : Au 0.03 μ m MIN. OVER Ni 1.00 μ m MIN.	
3	SHELL	PHOSPHOR BRONZE	SEE TABLE 1
2	CONTACT	PHOSPHOR BRONZE	SEE TABLE 1
1	HOUSING	LCP	UL94V-0, BLACK
NO.	DISCRIPTION	MATERIAL	FINISH , REMARKS

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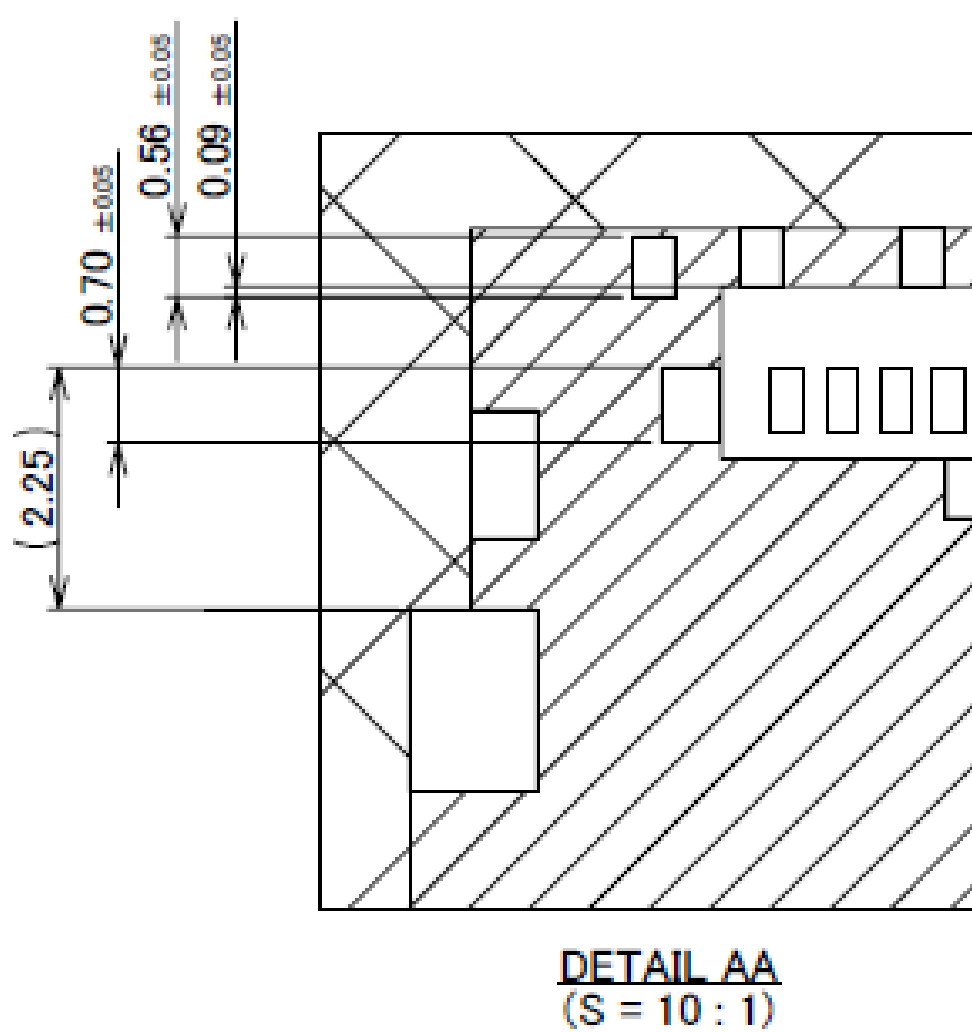
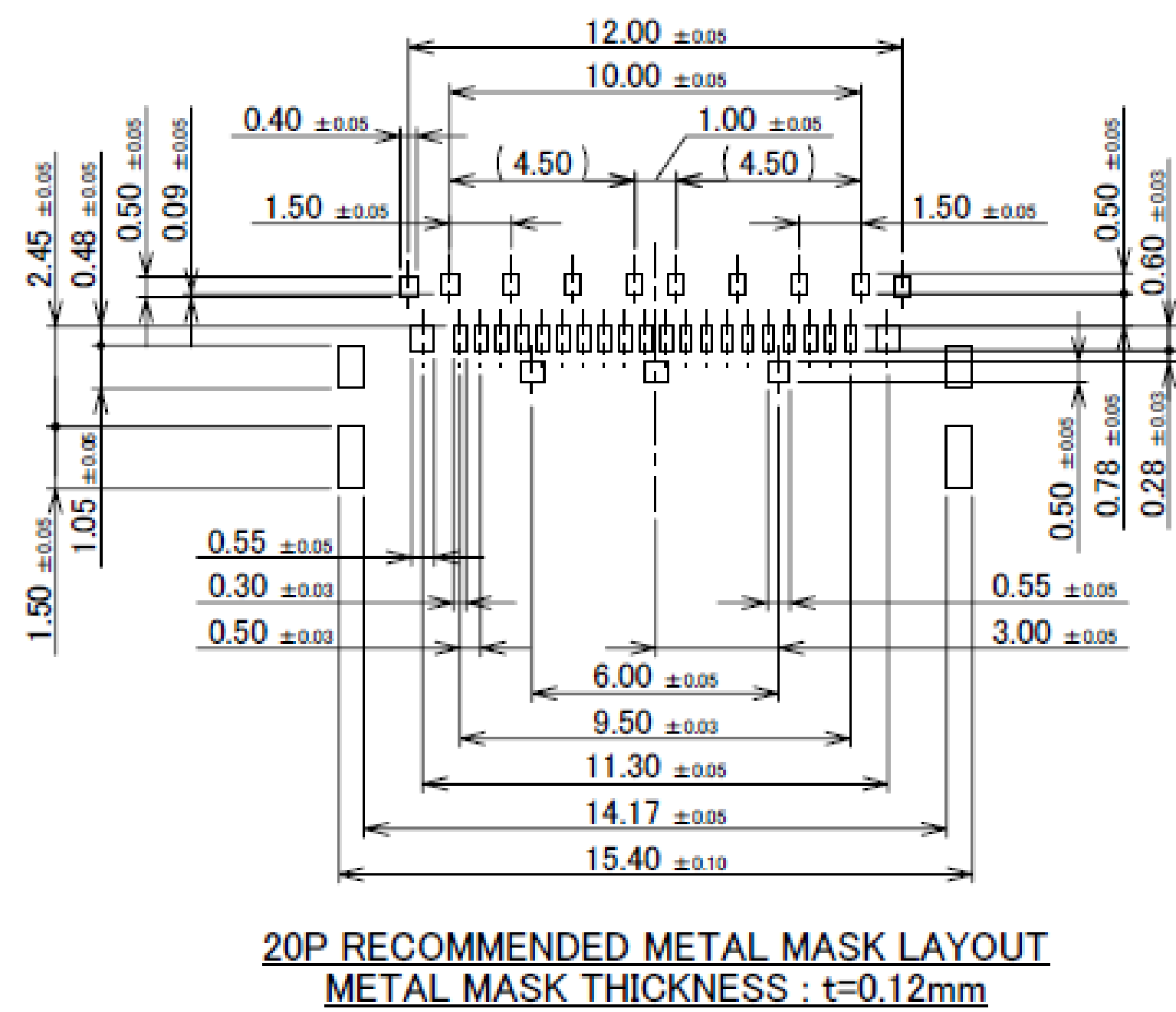
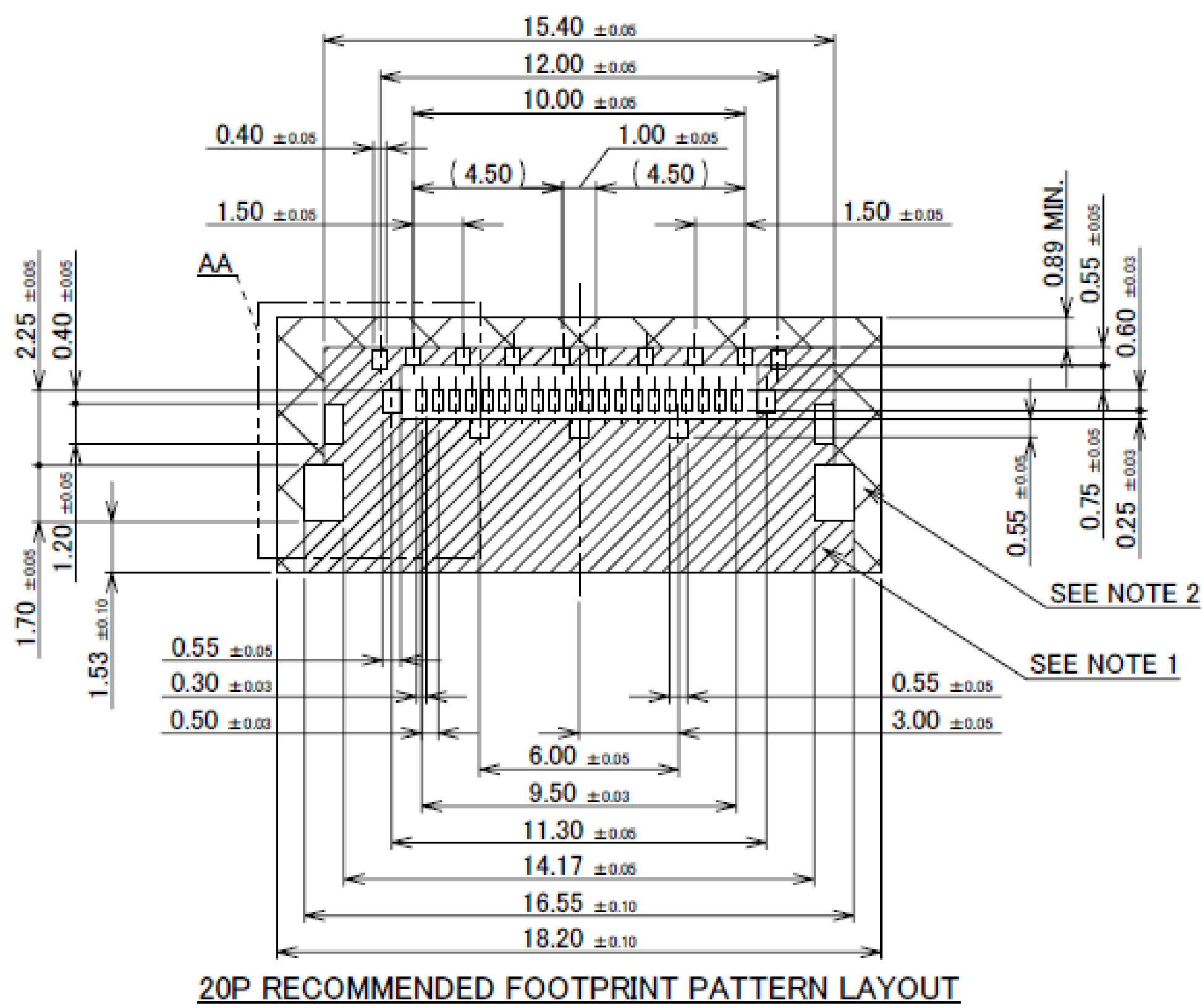
Receptacle Assembly

PART NO.	Pos.
20849-020E-0#	20
20849-030E-0#	30
20849-040E-0#	40

BOTTOM VIEW



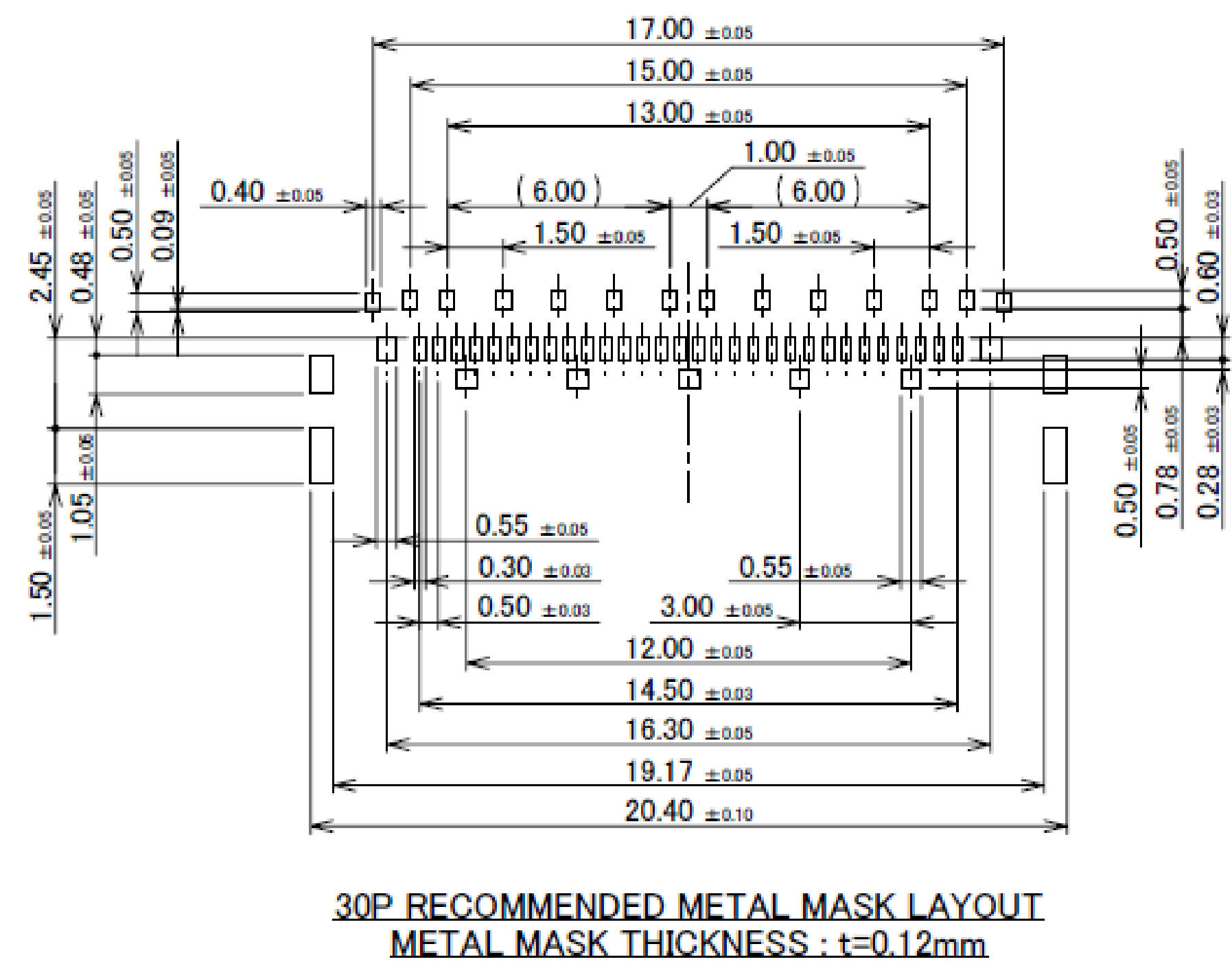
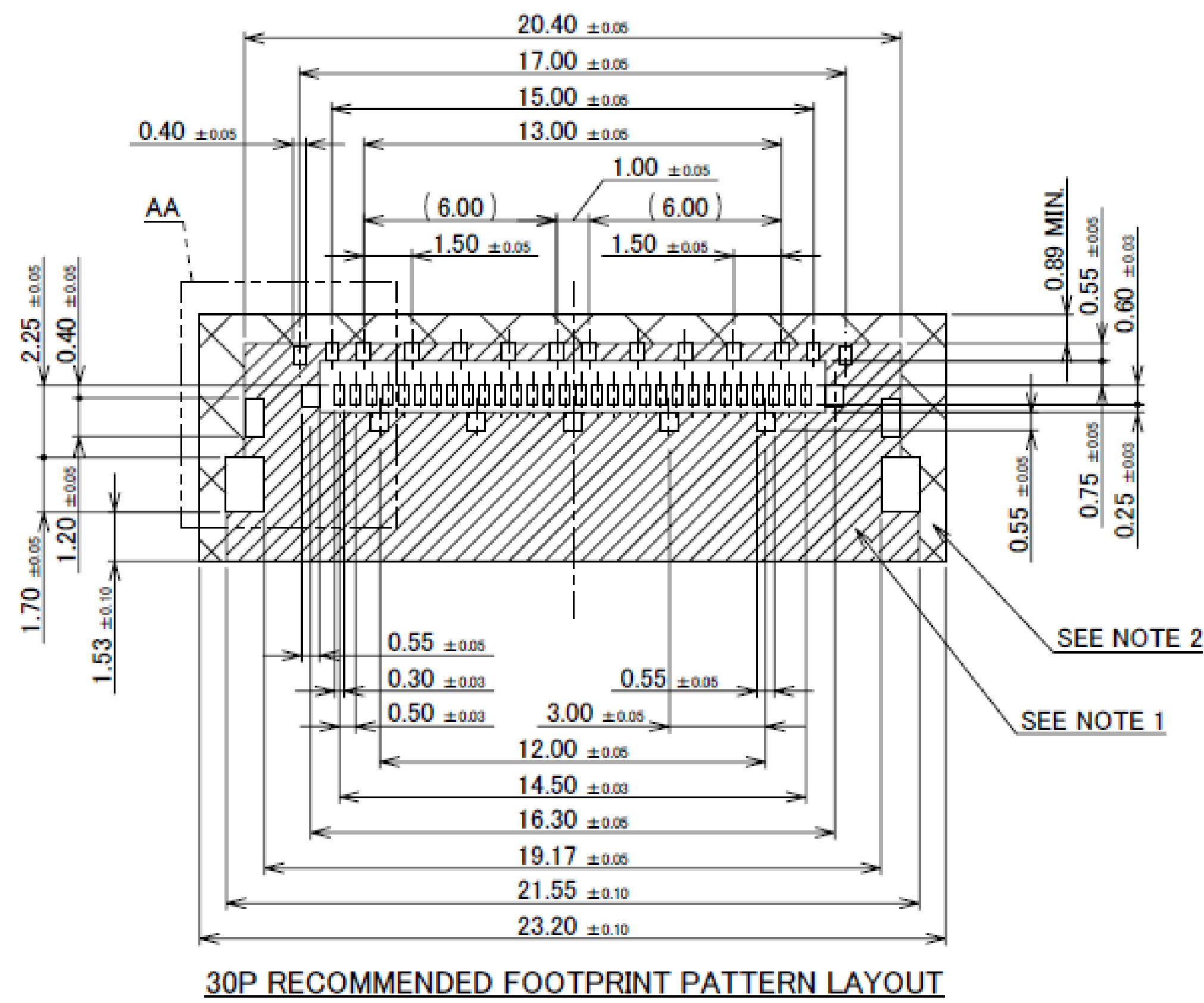
Rev.16



- NOTES.
1. SOLDER RESIST MUST BE APPLIED TO THIS AREA.
 2. DO NOT MOUNT ANOTHER COMPONENT IN THIS AREA.

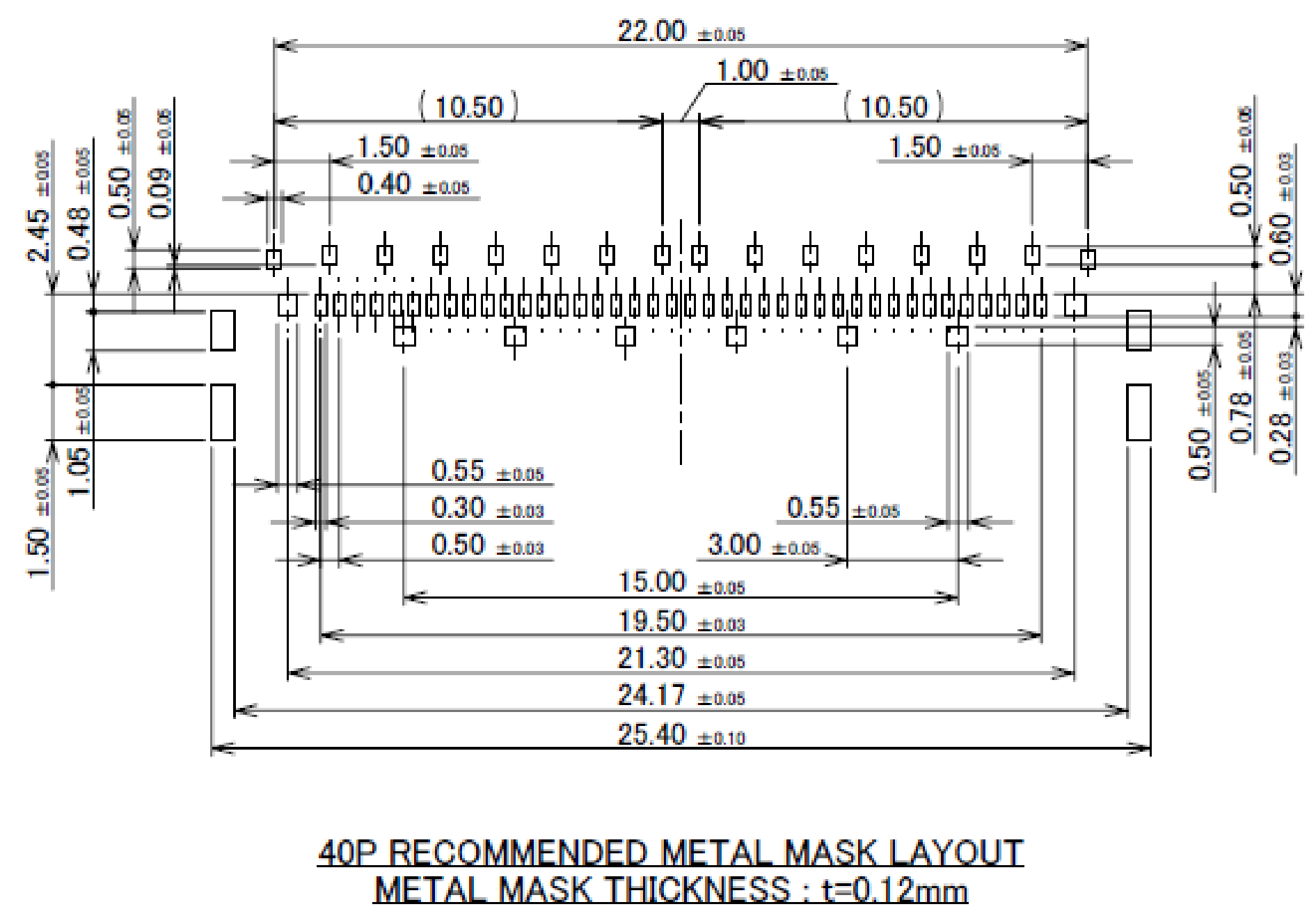
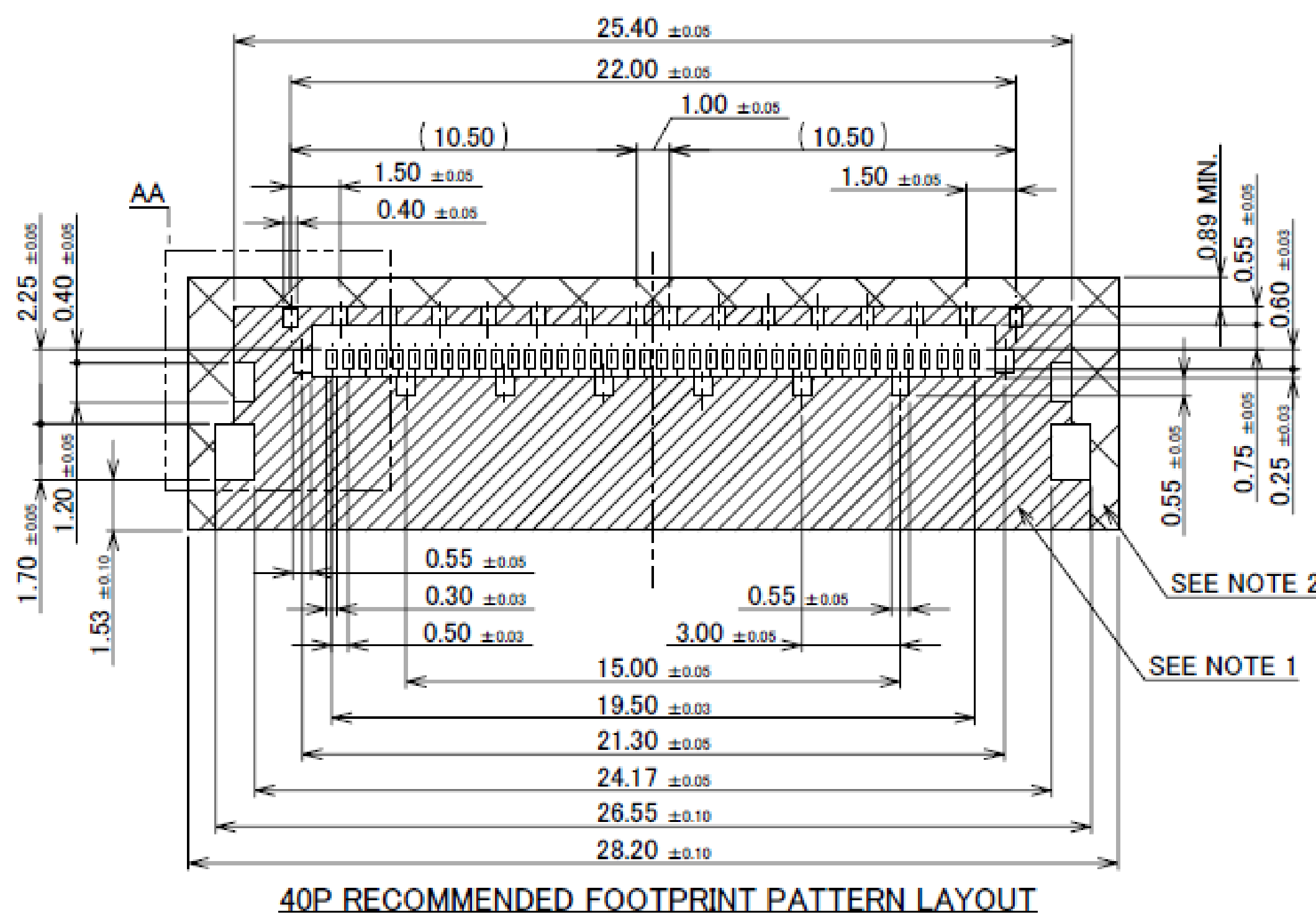
Rev.16

Receptacle Assembly



NOTES.
1. SOLDER RESIST MUST BE APPLIED TO THIS AREA.
2. DO NOT MOUNT ANOTHER COMPONENT IN THIS AREA.

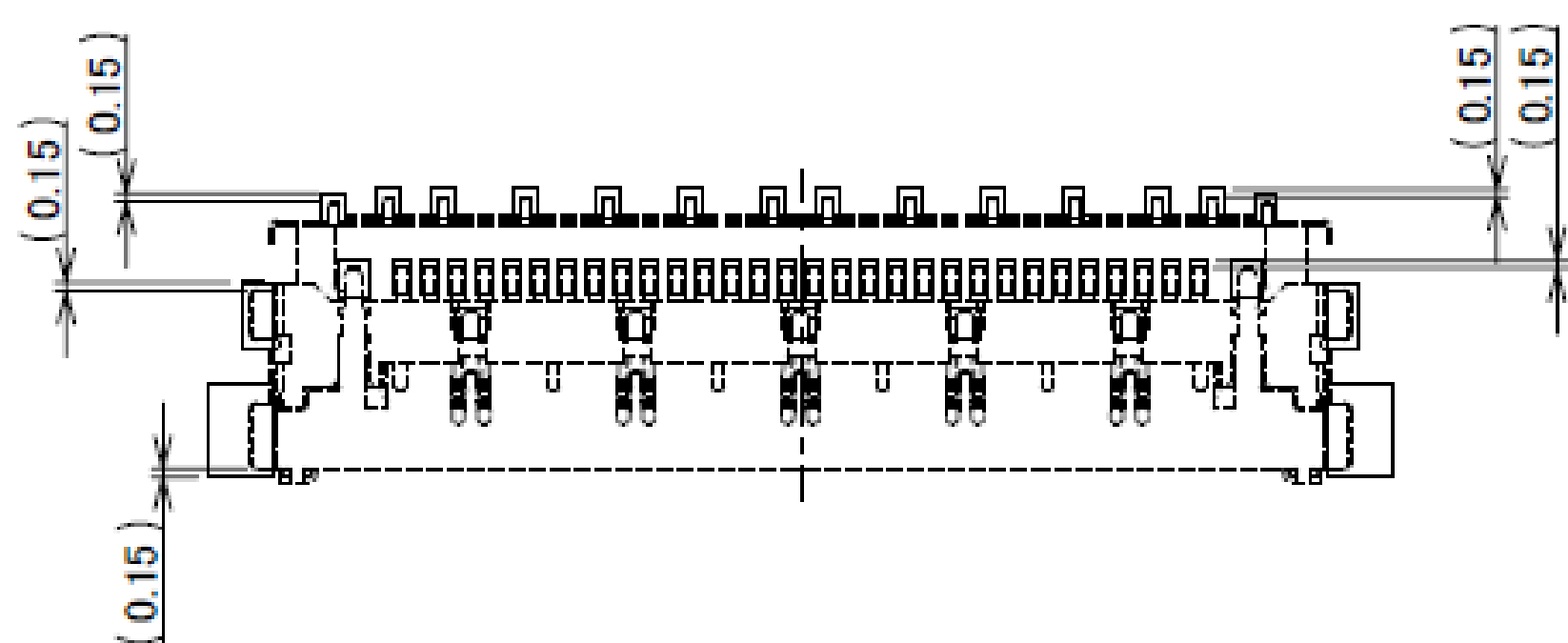
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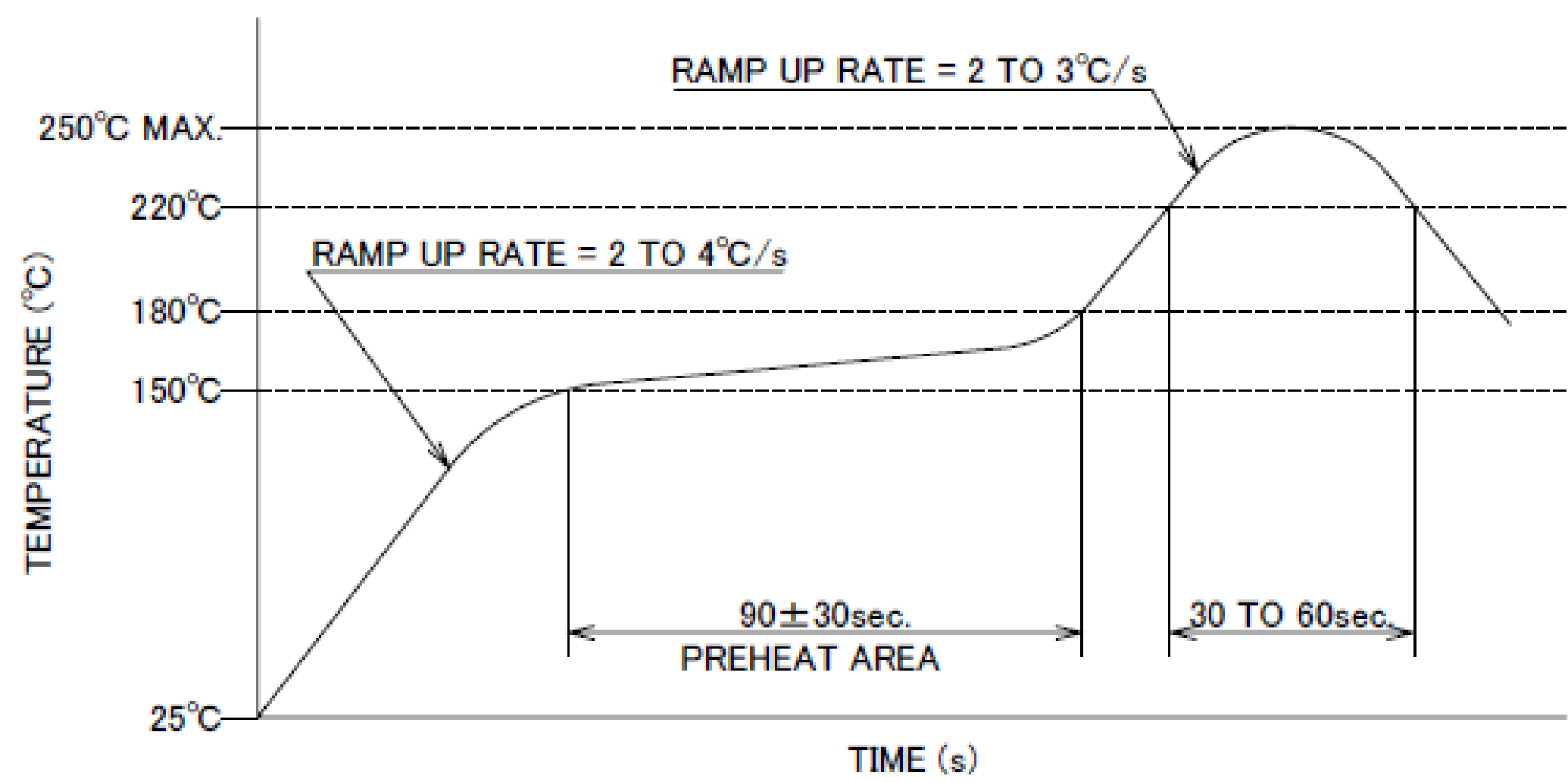
NOTES.
1. SOLDER RESIST MUST BE APPLIED TO THIS AREA.
2. DO NOT MOUNT ANOTHER COMPONENT IN THIS AREA.

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Receptacle Assembly



CONNECTOR ON RECOMMENDED FOOTPRINT PATTERN



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

Rev.16

FOR CABLINE-VS IIF PLUG SHELL ASSEMBLY (DWG NO. 20862)

ITEMS	SPECIFICATION
RATED VOLTAGE	100V AC (PER CONTACT PIN)
RATED AMPERAGE (FOR CONTACT)	0.3A AC/DC (PER CONTACT PIN) ※TESTING BY A REAL MACHINE IS RECOMMENDED BECAUSE TEMPERATURE RISE MAY AFFECTED BY ACTUAL SITUATION.
OPERATING TEMPERATURE	233 TO 358K (−40°C TO +85°C)
OPERATING HUMIDITY	85% MAX.
CONTACT RESISTANCE (FOR SIGNAL CONTACT)	INITIAL : 60mohm MAX. / AFTER TEST : ≦40mohm MAX.
GROUND SHELL RESISTANCE	INITIAL : 60mohm MAX. / AFTER TEST : ≦40mohm MAX.
INSULATION RESISTANCE	INITIAL : 1000Mohm MIN. / AFTER TEST : 500Mohm MIN.
DIELECTRIC WITHSTANDING VOLTAGE	AC250V 1min
DURABILITY	30 CYCLES
MATING FORCE (INITIAL / AFTER TEST)	30P : 13.50N MAX. 40P : 18.00N MAX.
UNMATING FORCE (INITIAL / AFTER TEST)	30P : 1.44N MIN. 40P : 1.92N MIN.
COPLANARITY	0.10 MAX.
PRODUCT SPECIFICATION	PRS-2430
TEST REPORT	TR-17086
PACKING STANDARD	PST-17079
INSTRUCTION MANUAL	HIM-17039
APPEARANCE CRITERIA NO.	QLS-A***

Rev.16

Custom Connectors Available

RF Connectors

MHF® series



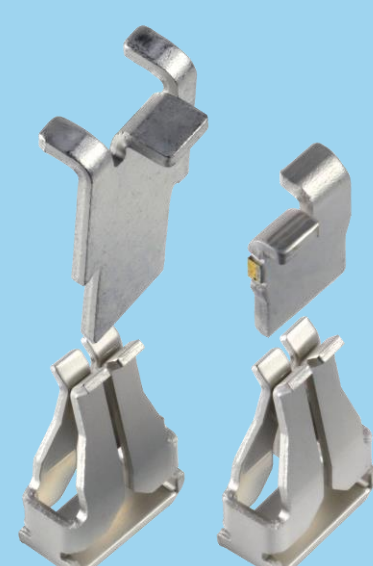
CABLINE® series

Micro-Coaxial/Twinaxial Connectors

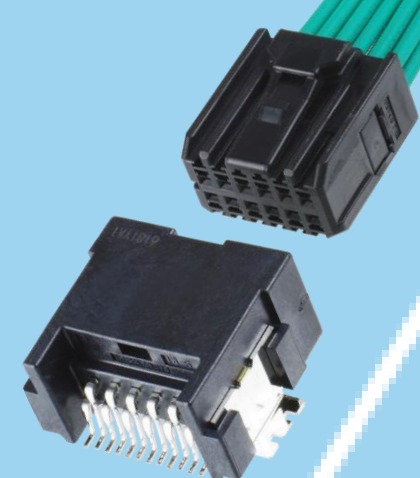


Wire-to-Board Connectors/ Terminals

AP series



ISH® series



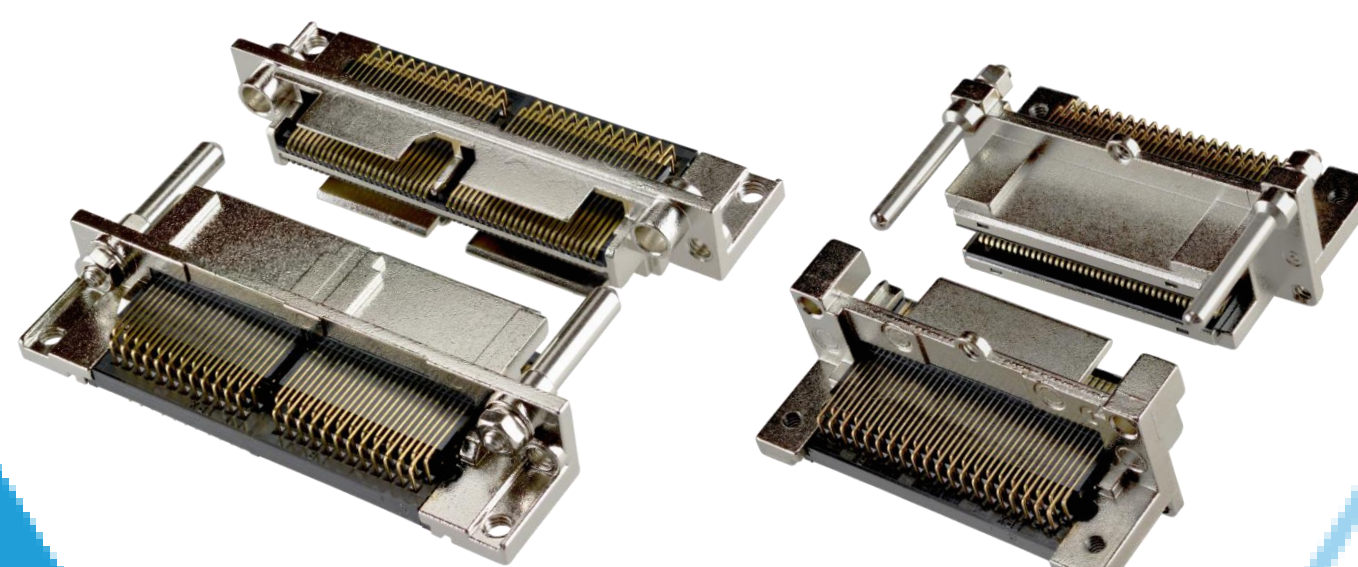
NOVASTACK® series



Board-to-Board Connectors

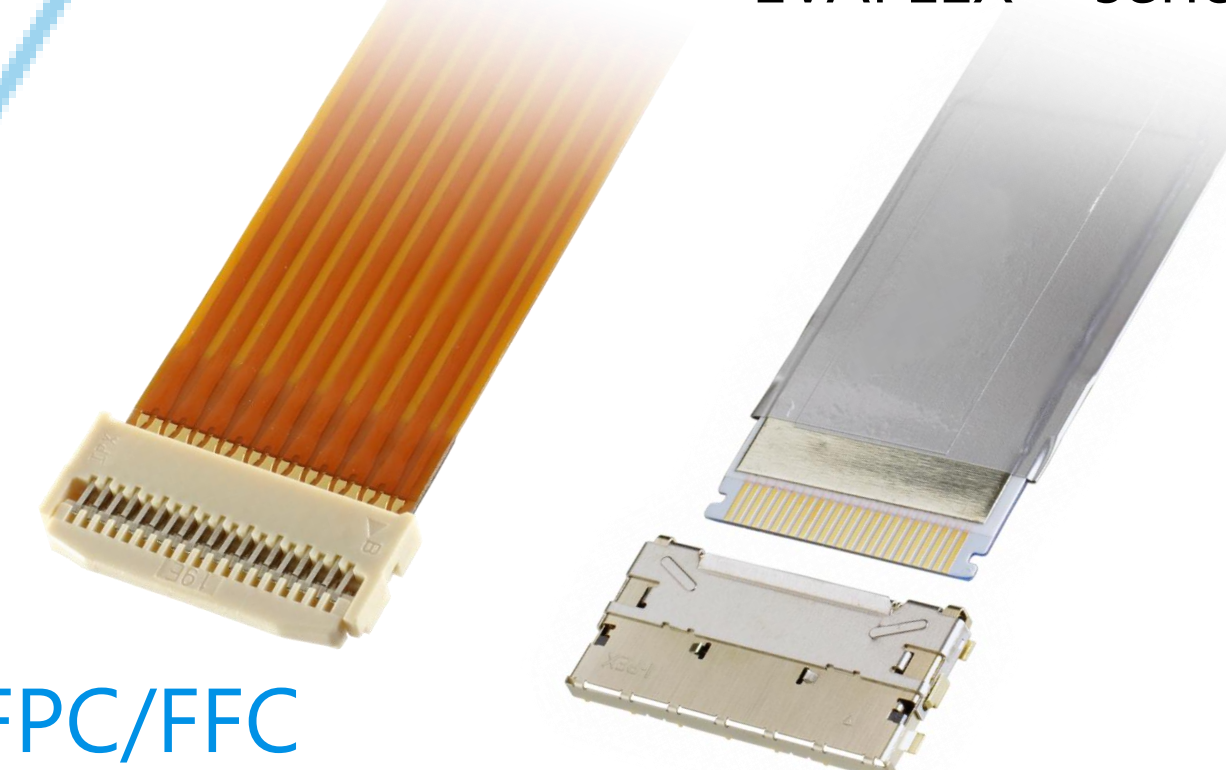


I/O Connectors



MINIDOCK™ series

MINIFLEX® series EVAFLEX® series



FPC/FFC Connectors



Inquiry



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