

CABLINE®-CA IIF PLUS

Full Shield & Mechanical Lock 사양, 고속 데이터 전송(32Gbps/Lane)에 적합,
0.4mm Pitch, 수평 결합형 FPC Plug Connector

Product Specifications:

Mating type	Horizontal	
Board Pitch (mm)	0.4	
Wiping Length (mm)	0.48	
Mated size (mm)	Height	1.2 max.
	Width	30.95
	Depth	7.24
Pin Counts	Range	60
	Available	60

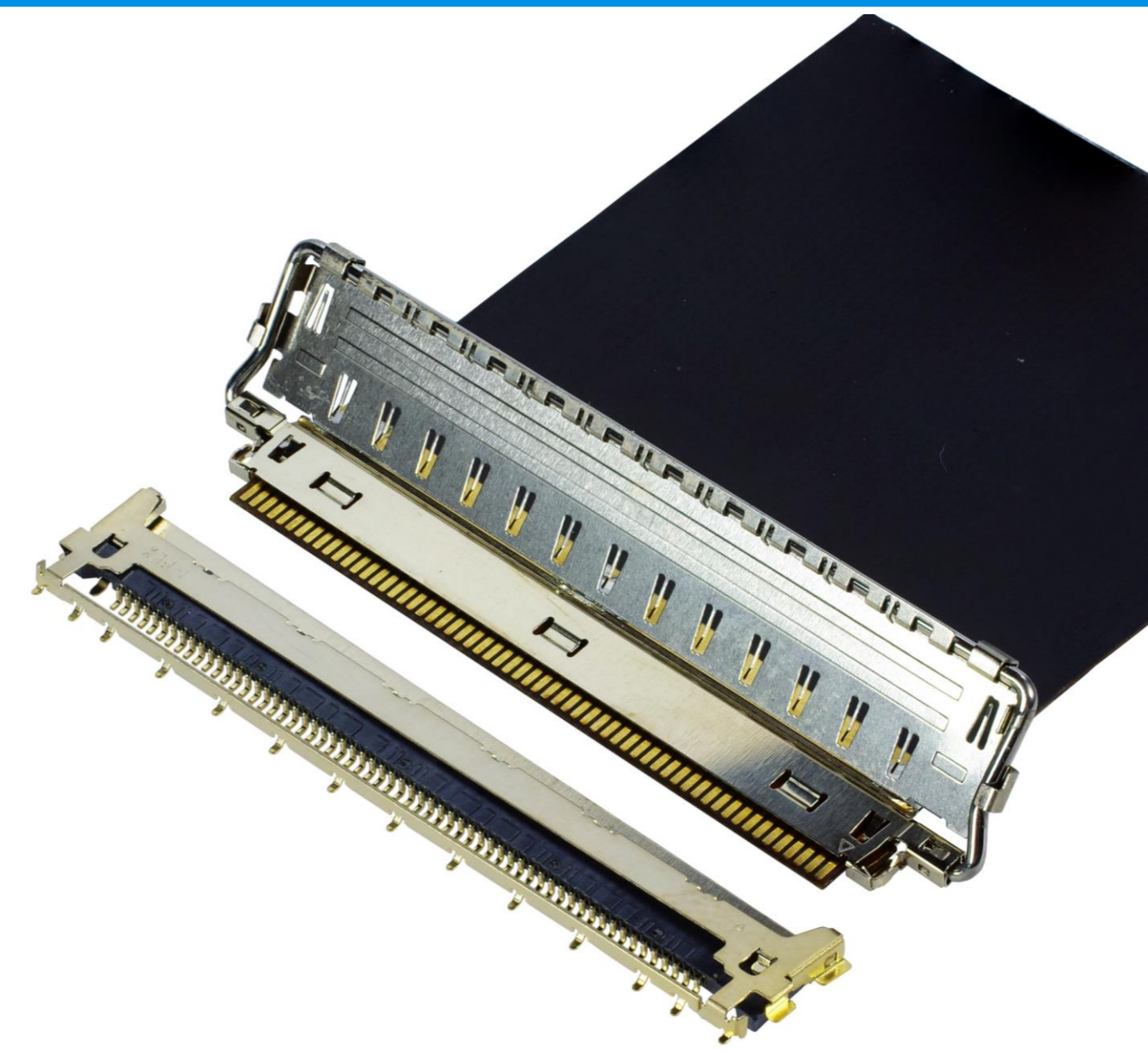
Applicable FPC

FPC Type	Shielded FPC
FPC Pitch (mm)	0.4
FPC Contact Point	Top
FPC Thickness (mm)	Contact Area: 0.25 +0.02/-0.03
	Ground Area: 0.37 +0.04/-0.06

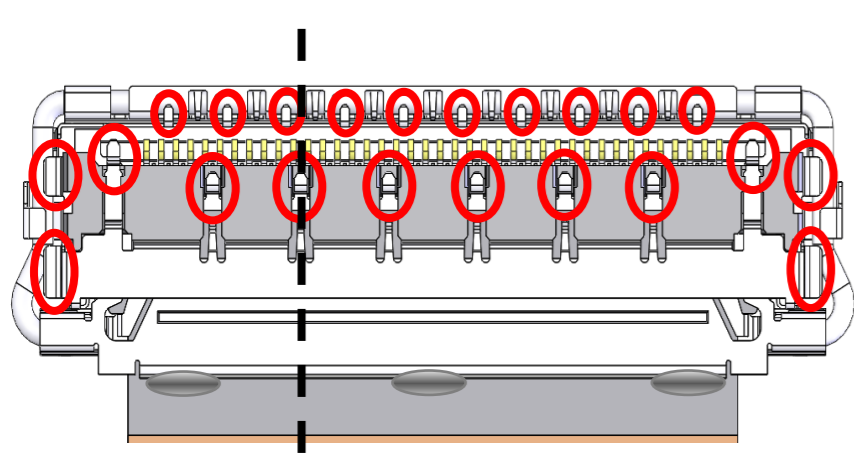
Applicable Standards (Reference Only):

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

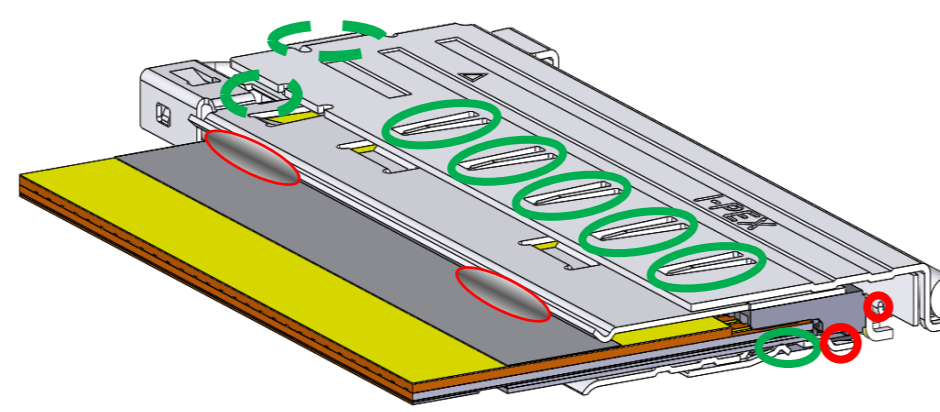
*기재가 되어있지 않은 핀 수의 대응 여부에 대해서는 문의해 부탁드립니다.



▶ ZenShield® Multi-point Ground를 통한 완전 차폐 Type 구조로 EMC Solution에 이상적입니다.

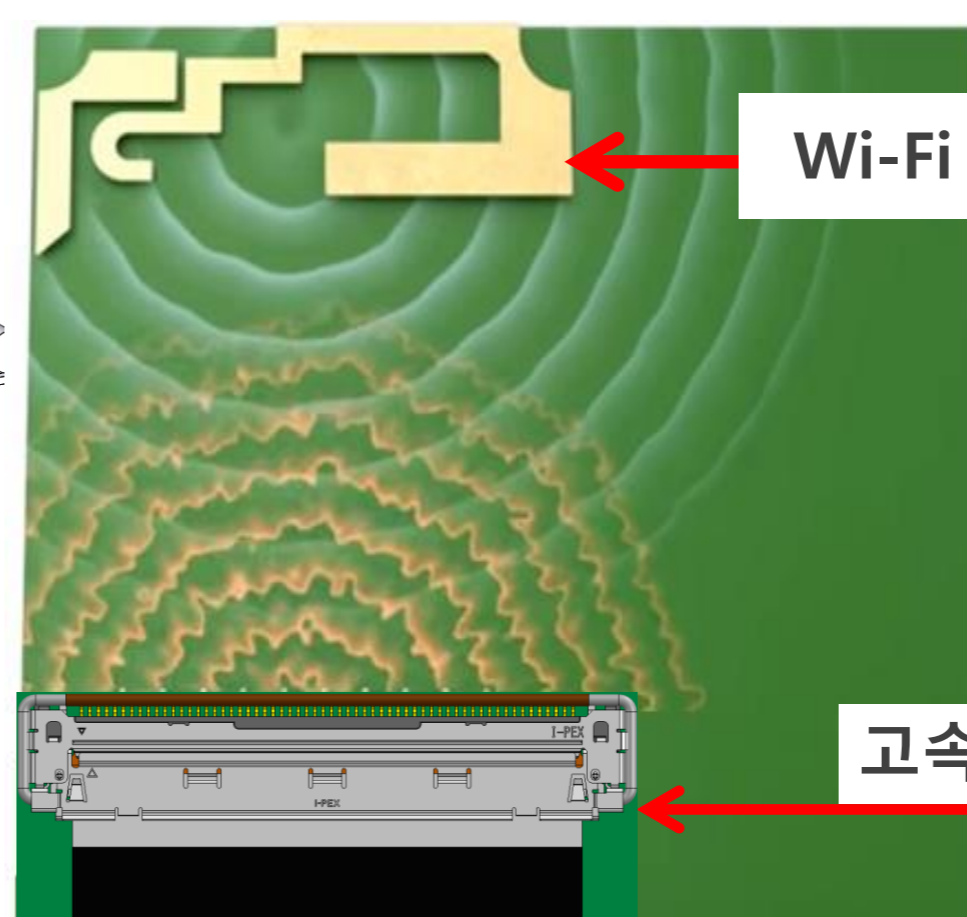


아래에서 본 Connector

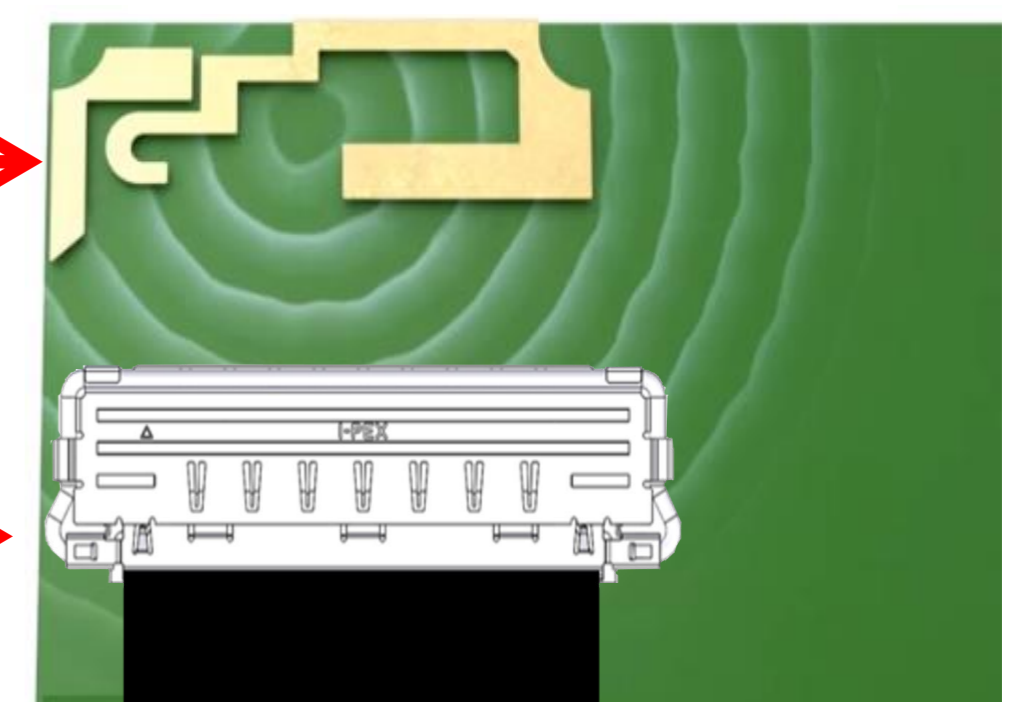


○ 납땜 접점부
○ Mechanical 접점부

일반적인 Connector

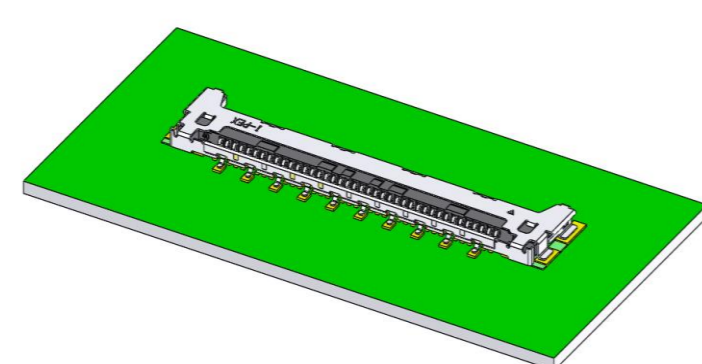


ZenShield® Connector

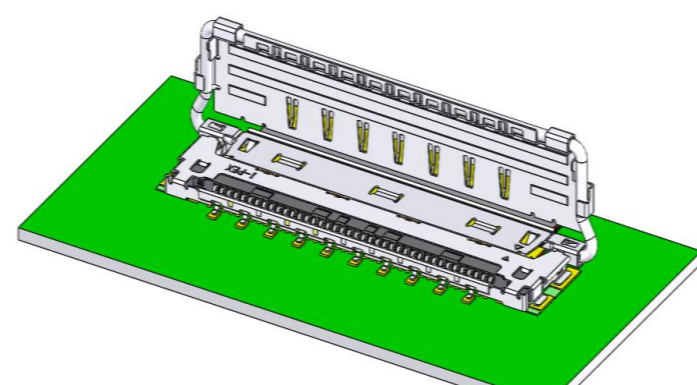


안테나 부근까지
Connector 실장이 가능

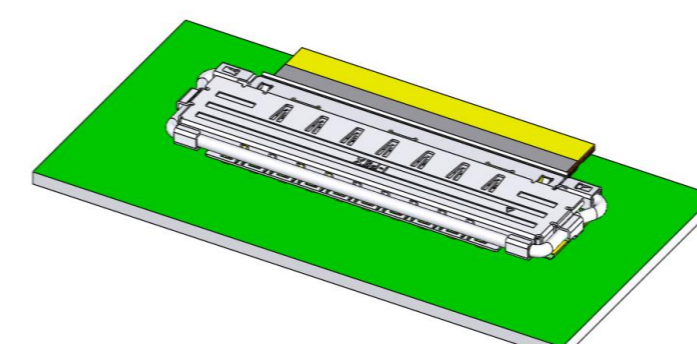
▶ Mechanical Lock Bar를 통한 불완전 결합 방지와 Plug 빠짐 방지



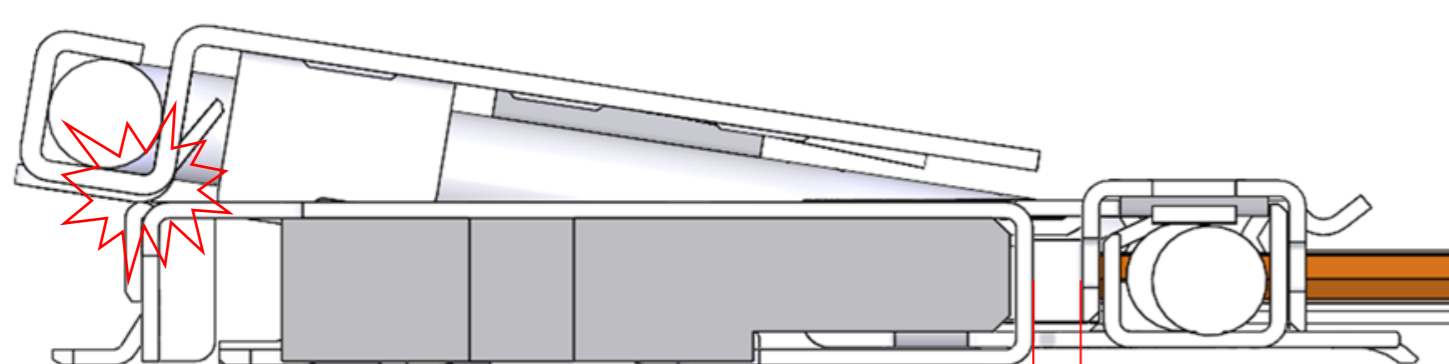
체결



잠김



가선



불완전 결합

Plug가 Receptacle에 정상적으로 결합되어 있을 경우에만 잠금 가능



정상 결합

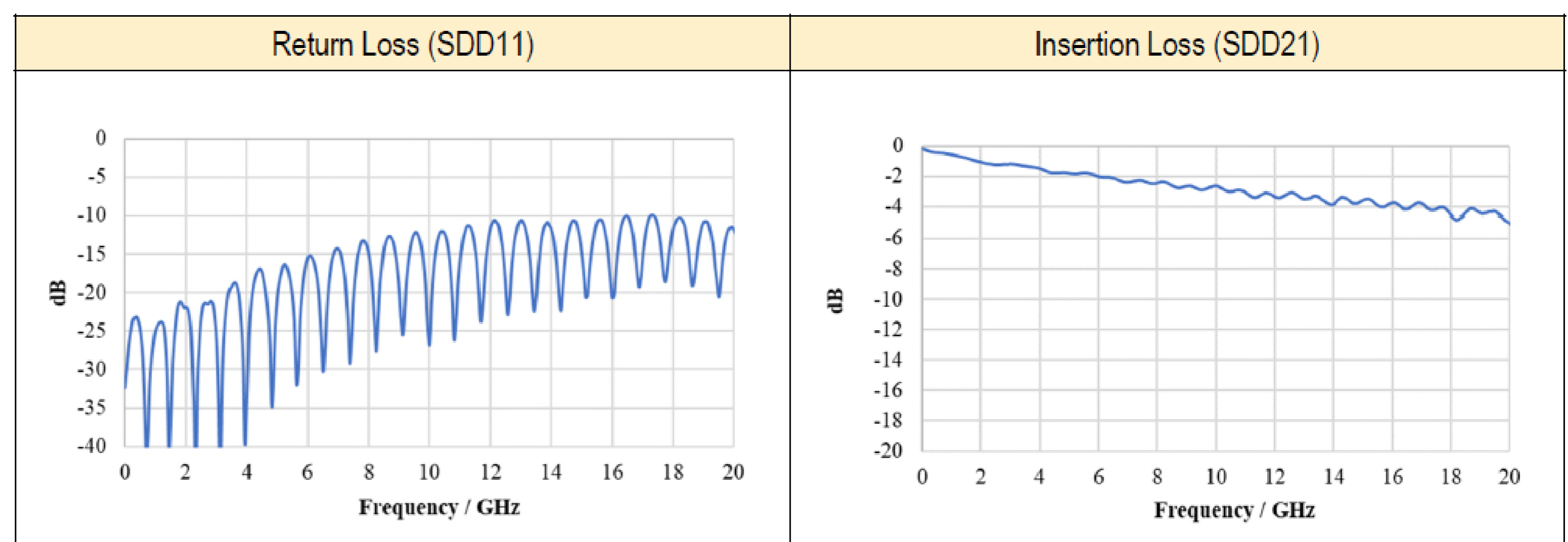
▶ 32Gbps/Lane Application에 이상적인 고속 데이터 전송

Measurement results

Connector: CABLINE-CA IIF 40P

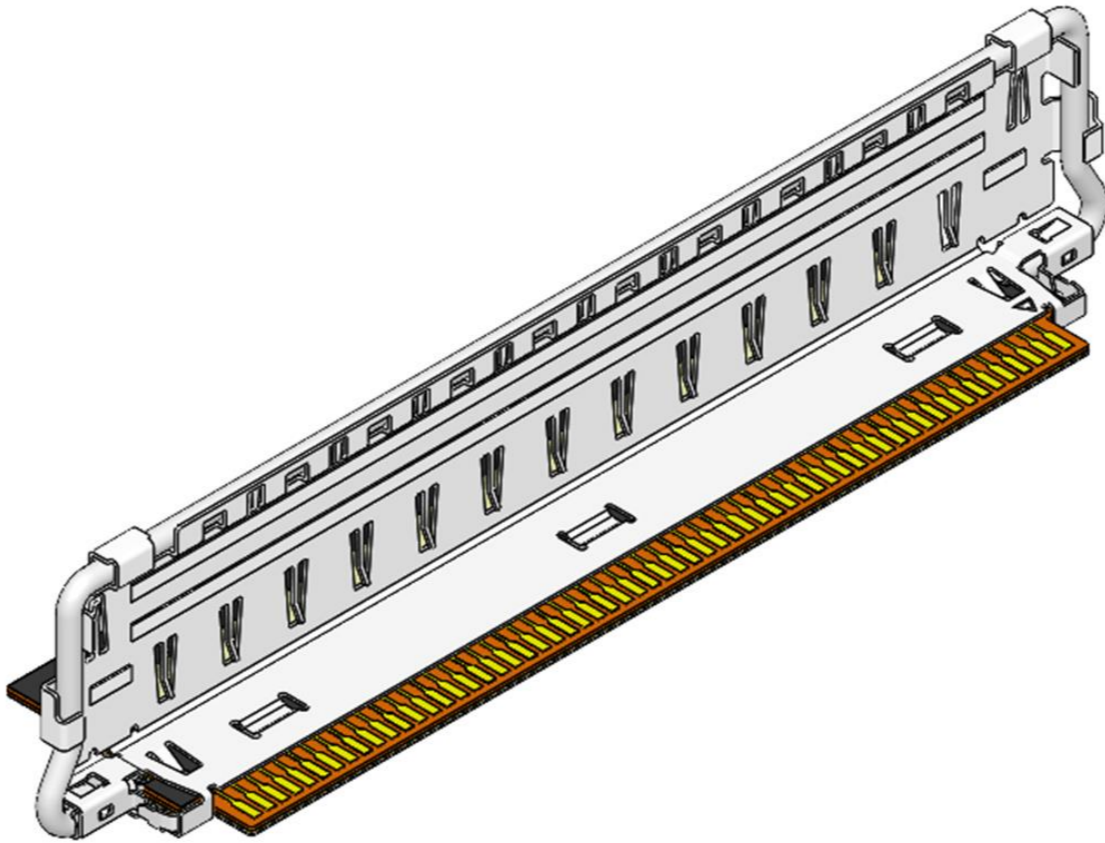
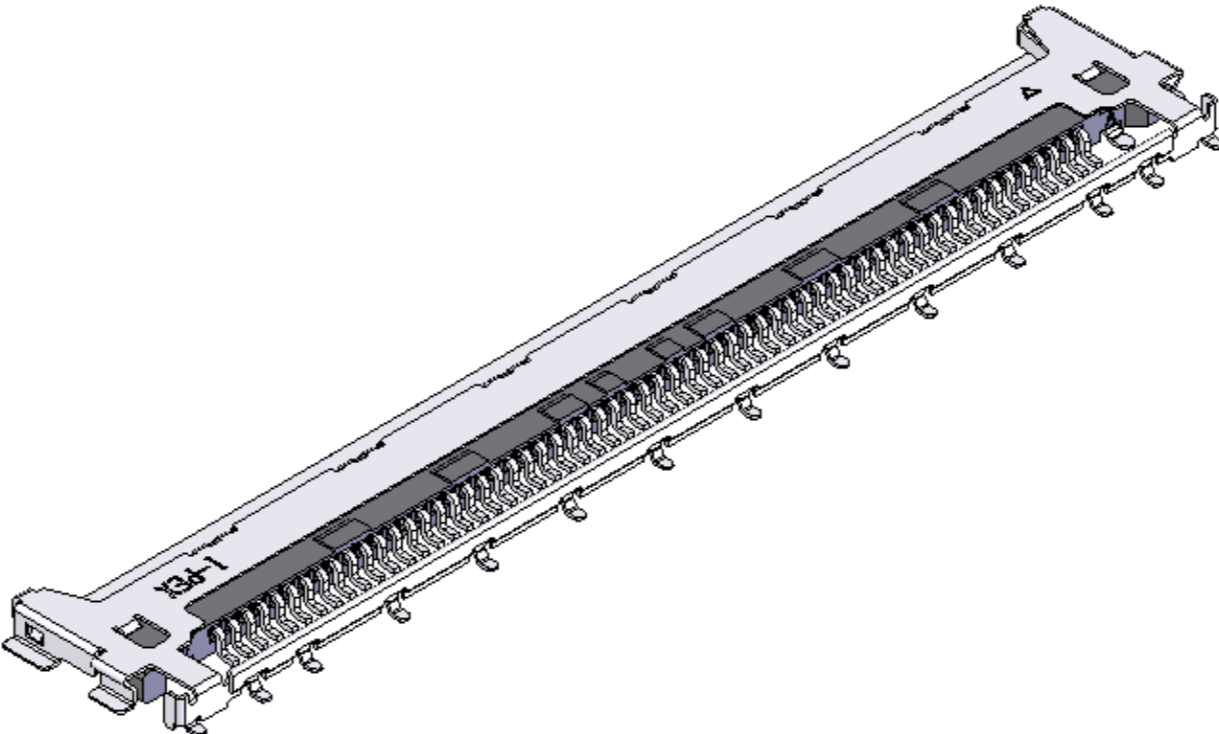
FPC: Shielded FPC, Differential 90 ohm
Length : 100 mm

Pin Assignment: GSSGSSG



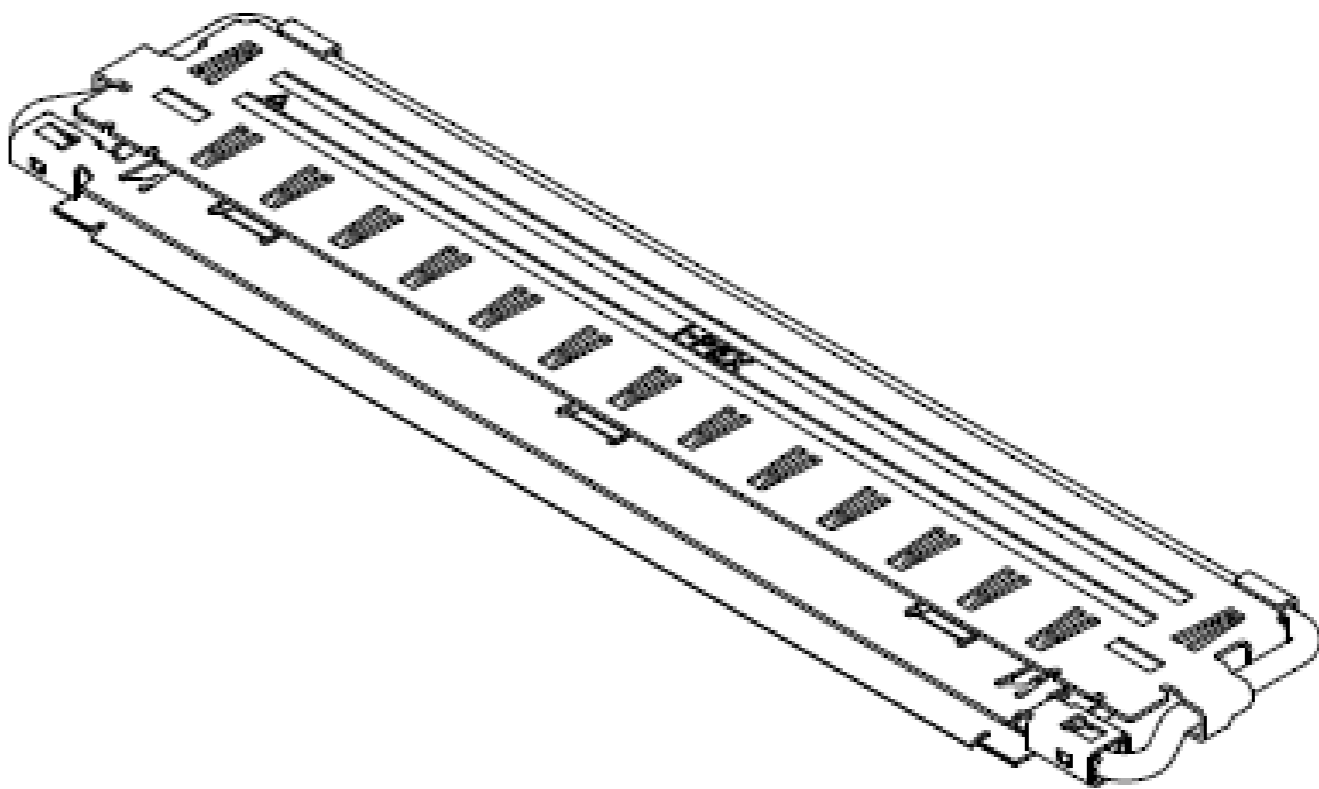
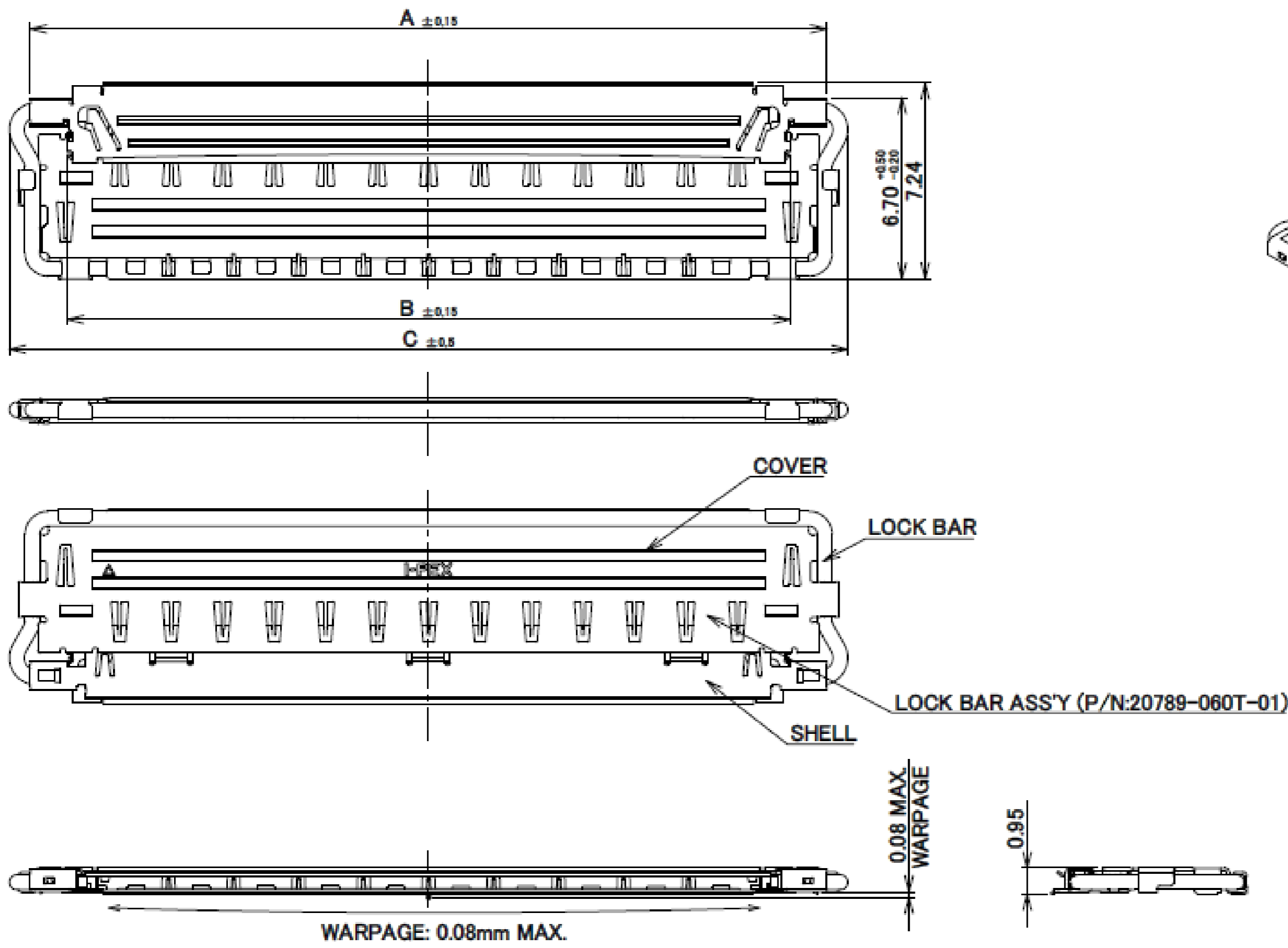
Component Parts Details

Component Parts

Connector parts

CABLINE-CA IIF PLUG with FPC

CABLINE-CA II PLUS RECEPTACLE

Shell Assembly

Recommended P/N		20901-060T-01			
PART NO.	Pos.	A	B	C	
20901-060T-01	60	29.40	26.66	30.95	



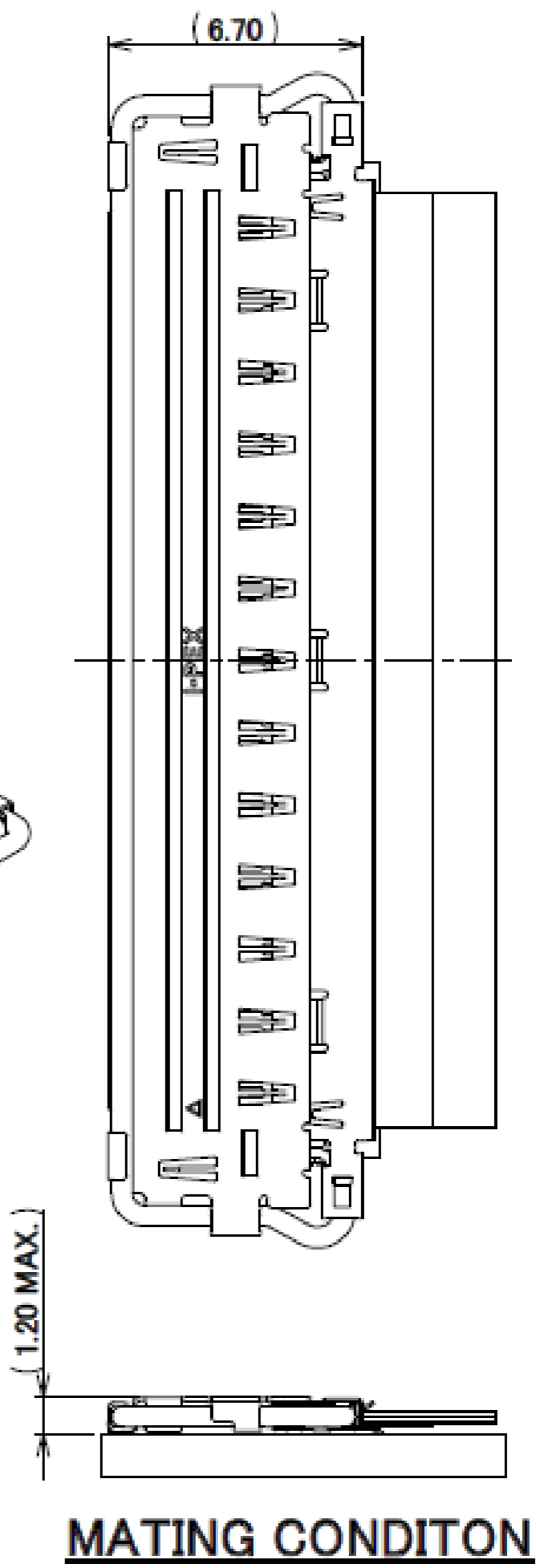
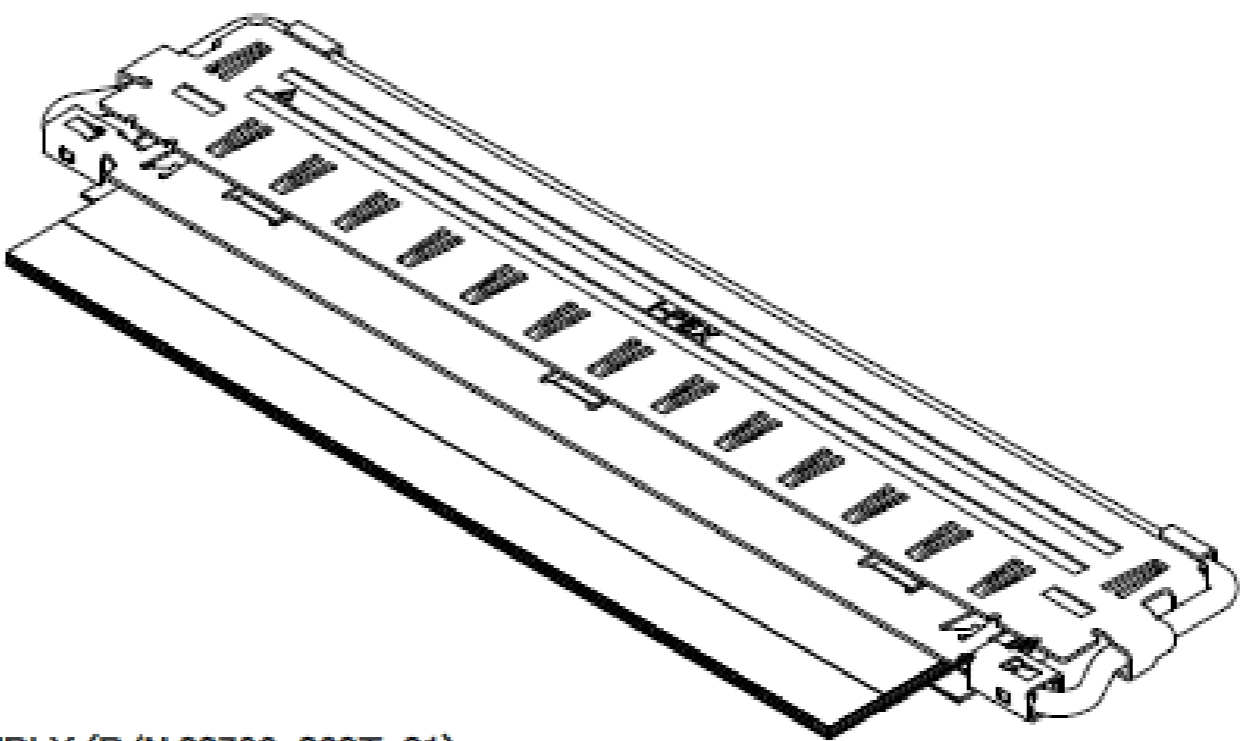
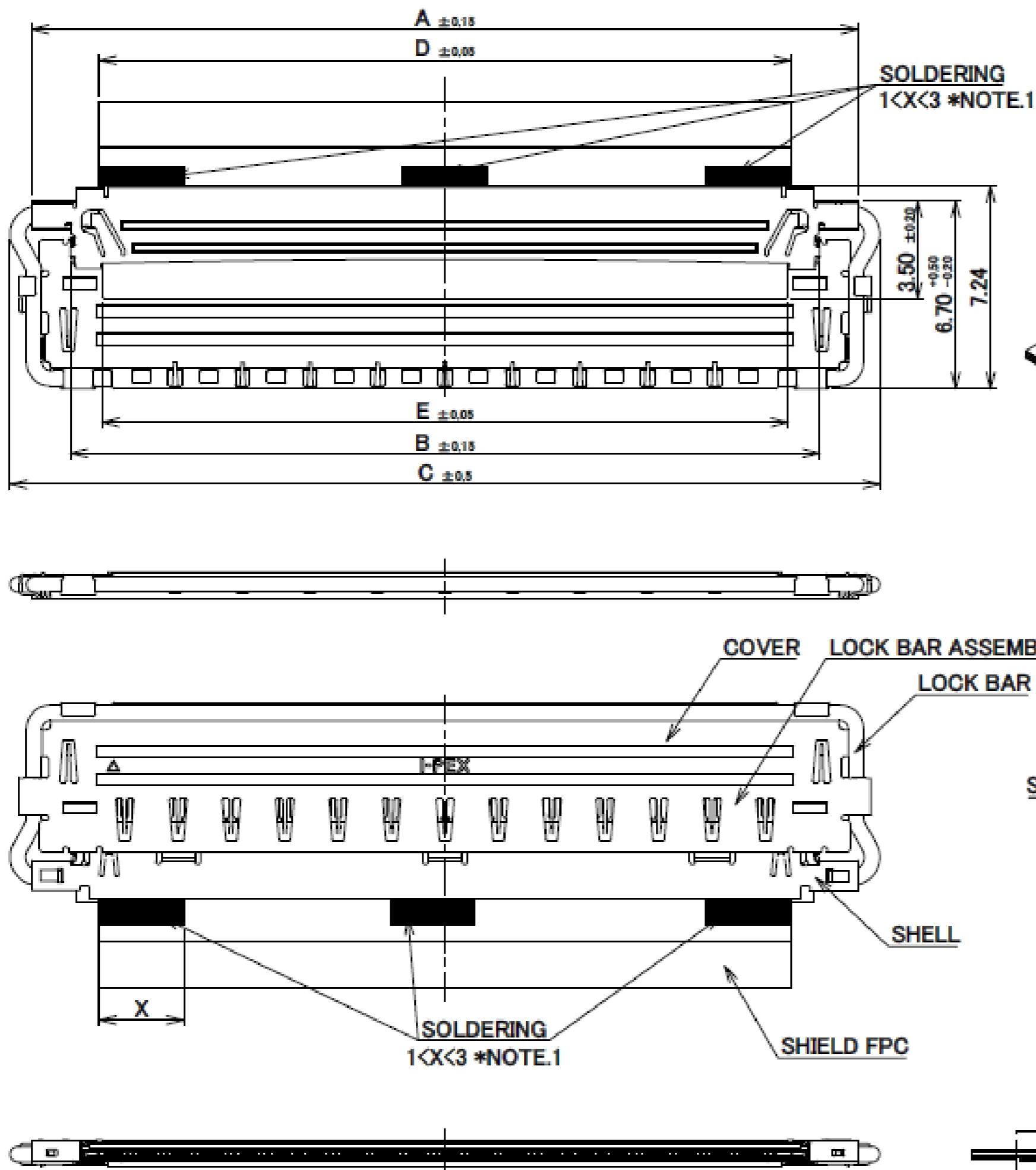
3	COVER	PHOSPHOR BRONZE	Ni PLATING
2	LOCK BAR	STAINLESS STEEL	-
1	SHELL	PHOSPHOR BRONZE	PARTIAL Au 0.003 μ m MIN. OVER Ni 1.00 μ m MIN.
NO.	DESCRIPTION	MATERIAL	FINISH , REMARKS

Rev.2

Recommended P/N		20901-060T-01				
PART No.		A	B	C	D	E
20901-060T-01		29.40	26.66	30.95	24.60	24.40



FPC ASSEMBLY STATE COVER CLOSE



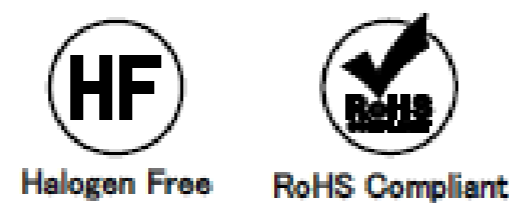
MATING CONDITON

NOTES.
1.Soldering Area X is recommended dimension.
It does not mater if it might be exceed the recommended dimension.

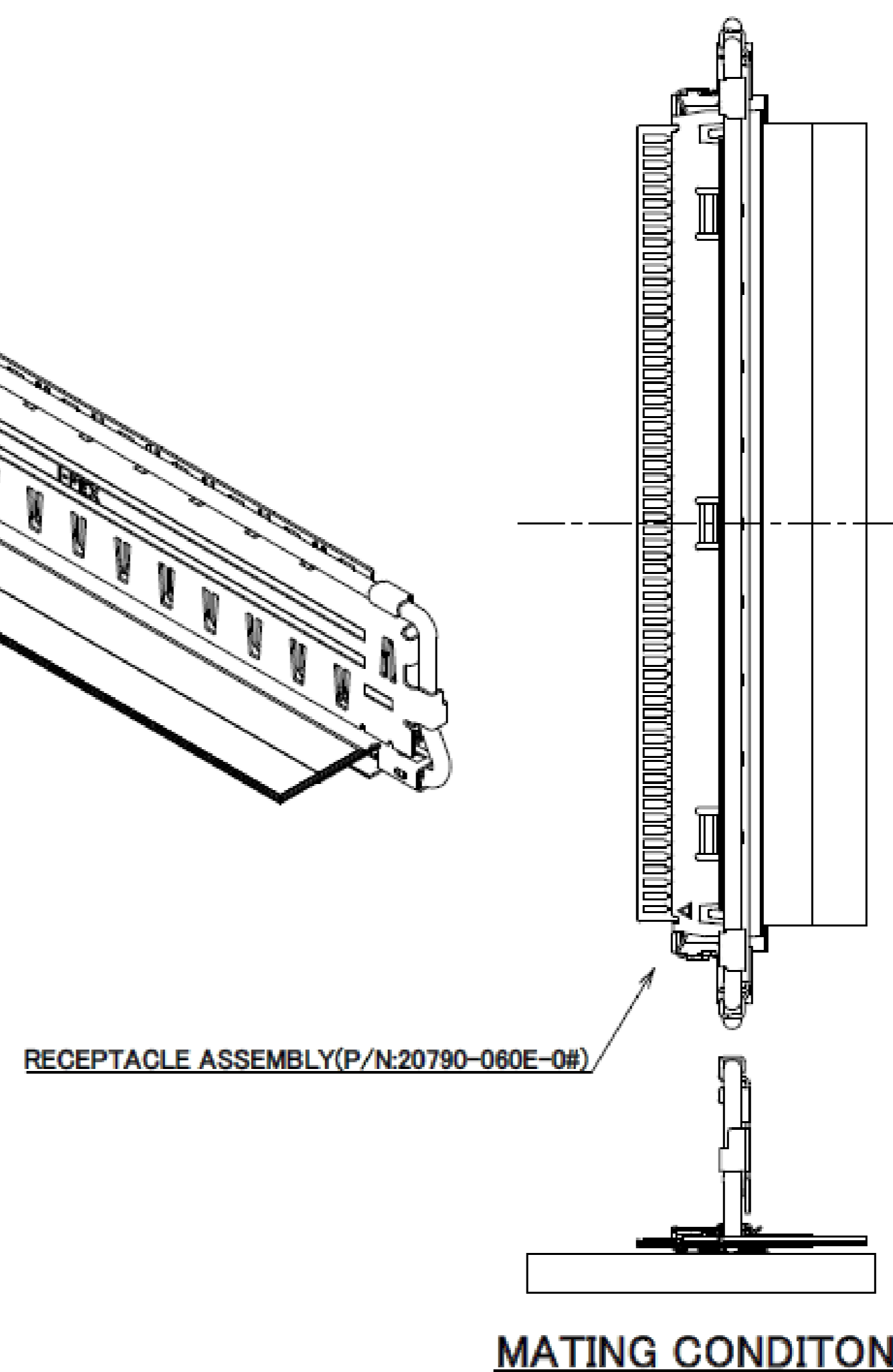
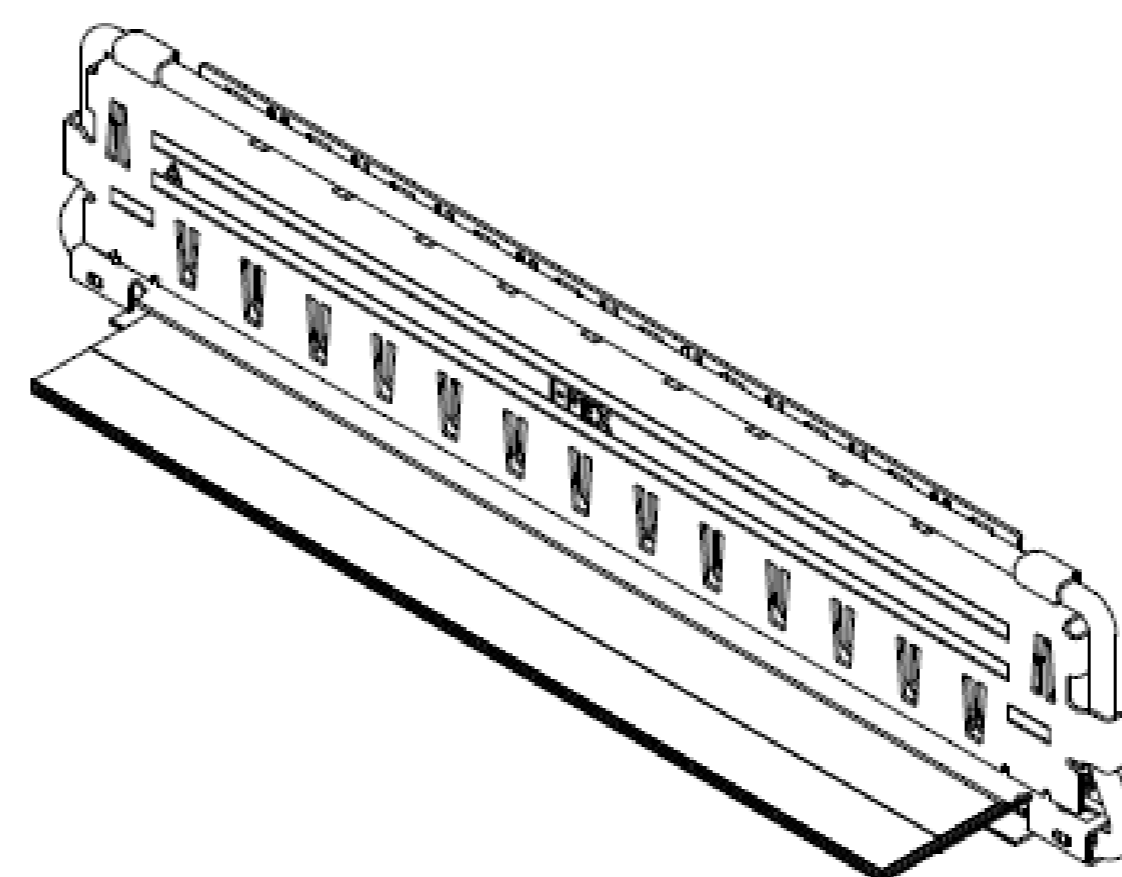
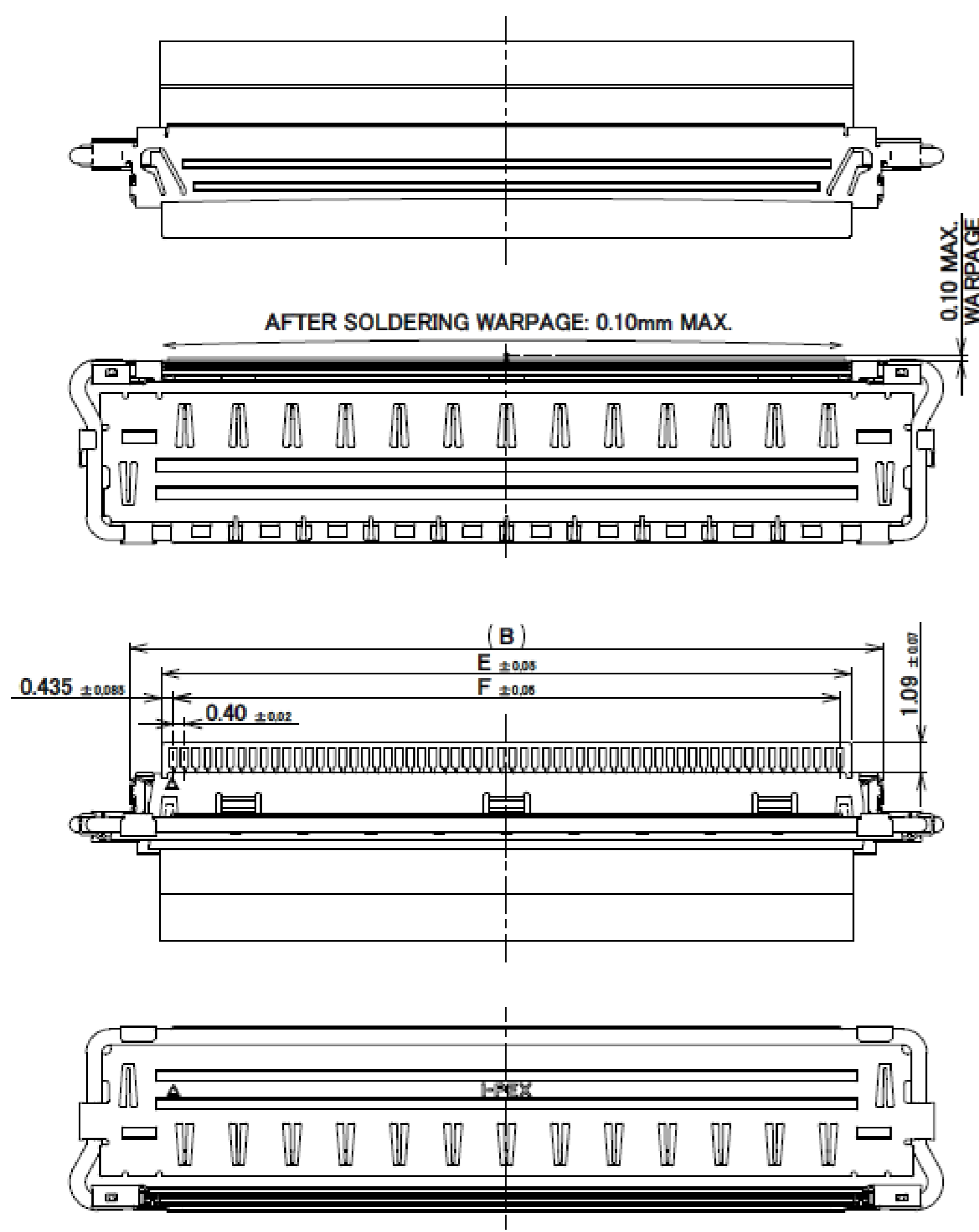
Rev.2

Shell Assembly

Recommended P/N		20901-060T-01		
PART No.	B	E	F	
20901-060T-01	26.66	24.40	23.80	



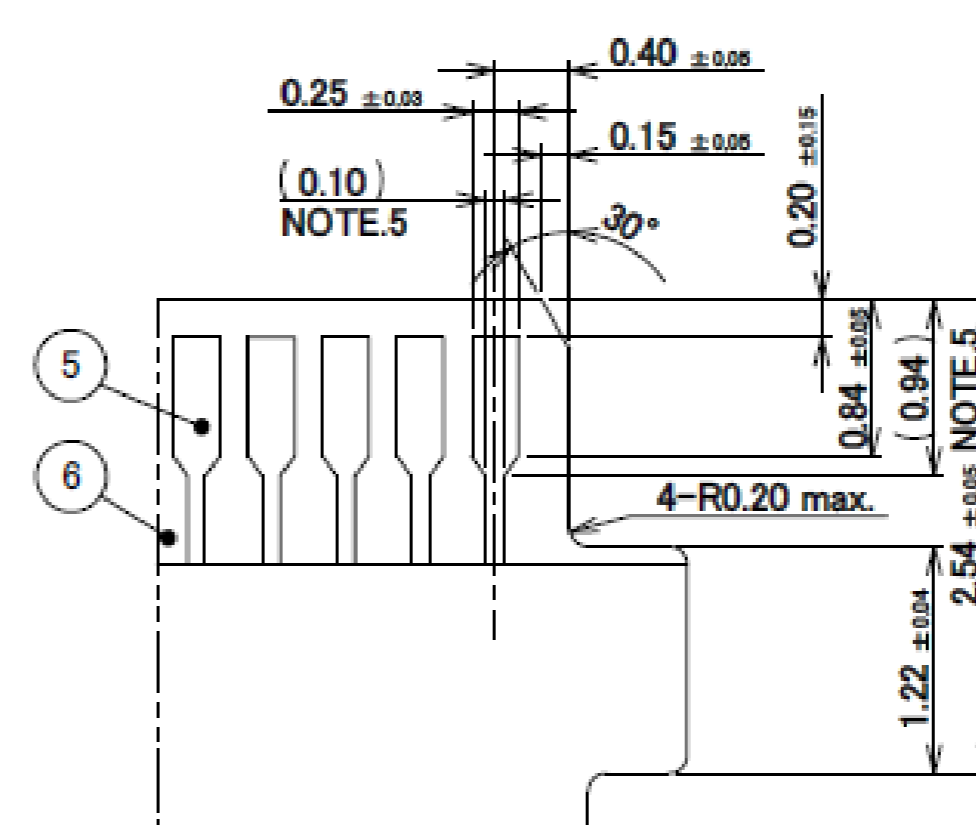
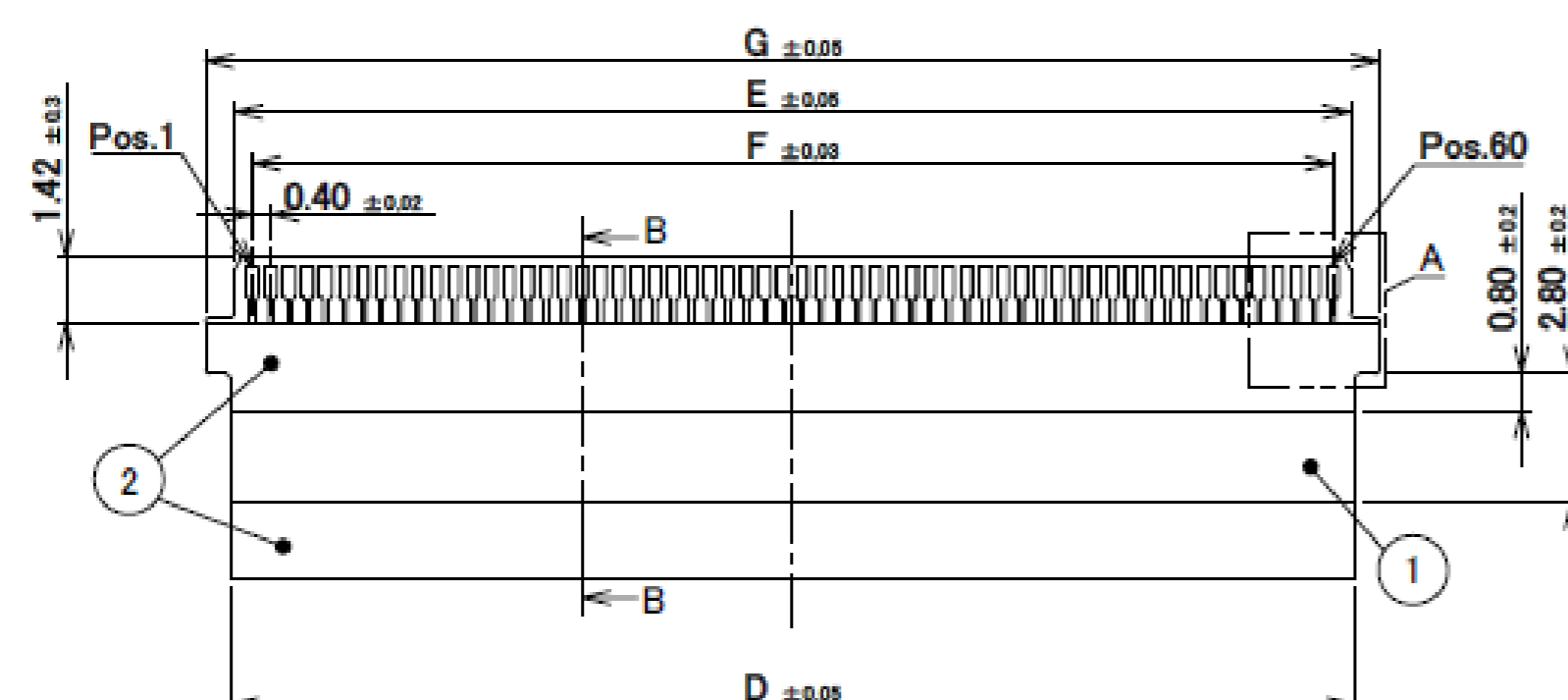
FPC ASSEMBLY STATE COVER OPEN



MATING CONDITON

Rev.2

PART No.	D	E	F	G
20901-060T-01	24.60	24.40	23.60	25.66

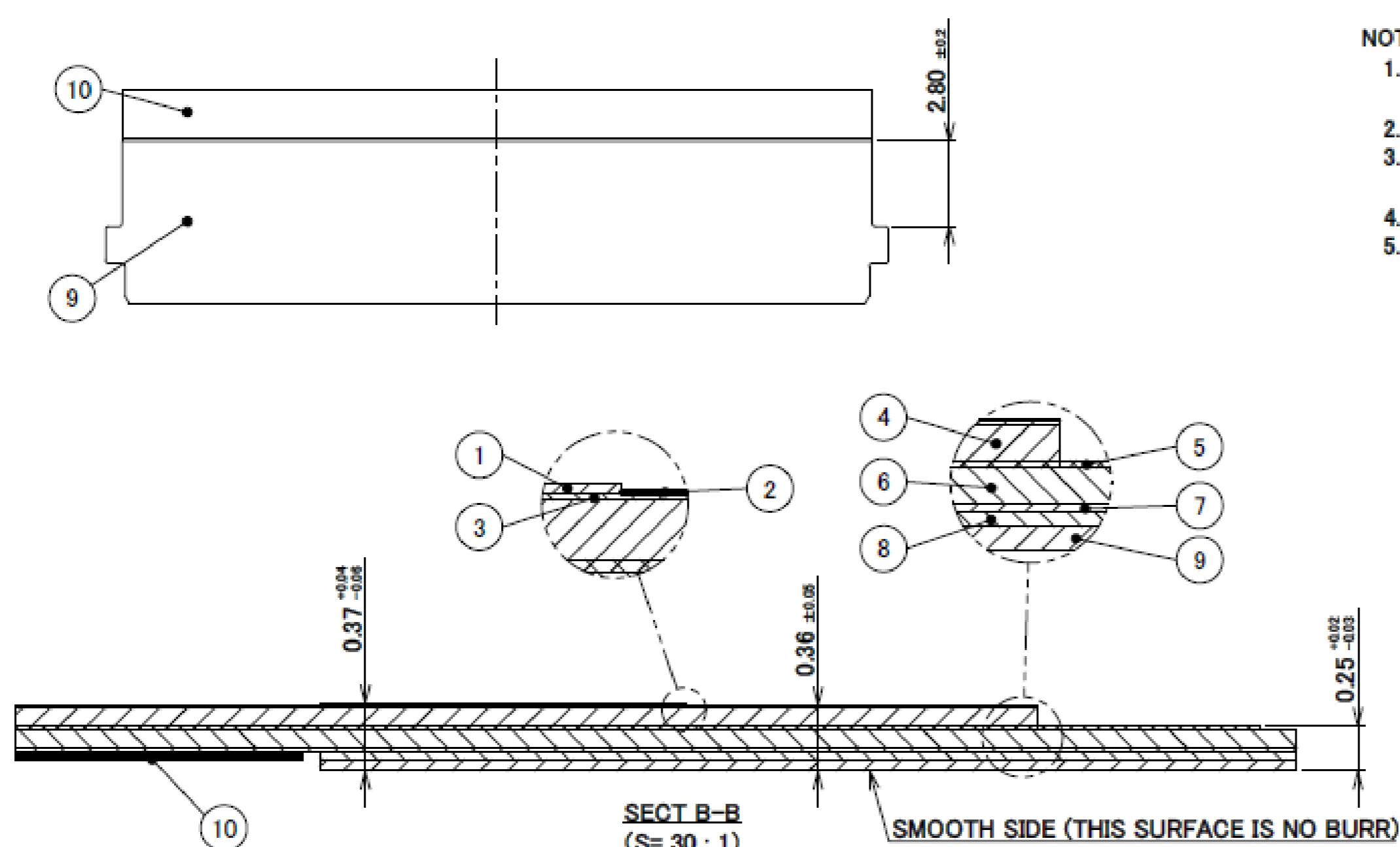


DETAIL A
(S=20 : 1)

NOTES.

- NOTES.
1. No.1, 3, 7, 9 : CONDUCTOR (GROUND) ARE CARRYING OUT THE ELECTRICAL CONNECTION.
 2. No.5 : SIGNAL Pos. AND No.1, 3, 7, 9 : CONDUCTOR (GROUND) ARE NOT CONTACTING.
 3. No.5 : GROUND Pos. AND No.1, 3, 7, 9 : CONDUCTOR (GROUND) ARE CARRYING OUT THE ELECTRICAL CONNECTION.
 4. ADHESIVE SHOULD USE THERMOSETTING.
 5. 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



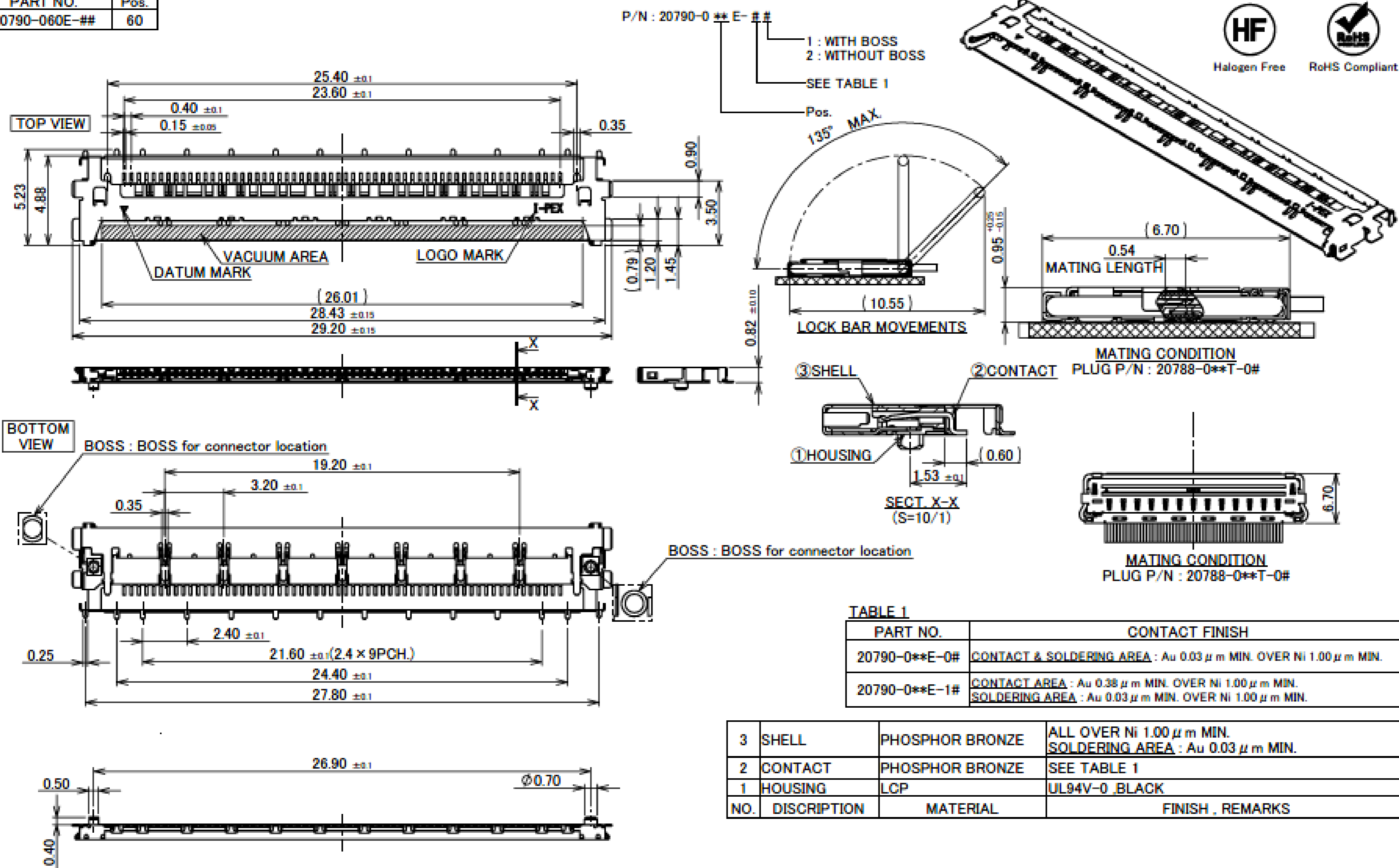
Shell Assembly

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°C~+85°C)
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)	60P : 27.0N MAX.
UNMATING FORCE (INITIAL / AFTER TEST)	60P : 2.88N MIN.
PRODUCT SPECIFICATION	PRS-2893
TEST REPORT	TR-24034
PACKING STANDARD	PST-24023
INSTRUCTION MANUAL	HIM-24010
ASSEMBLY MANUAL	ASM-24004
APPEARANCE CRITERIA No.	QLS-A***

Rev.2

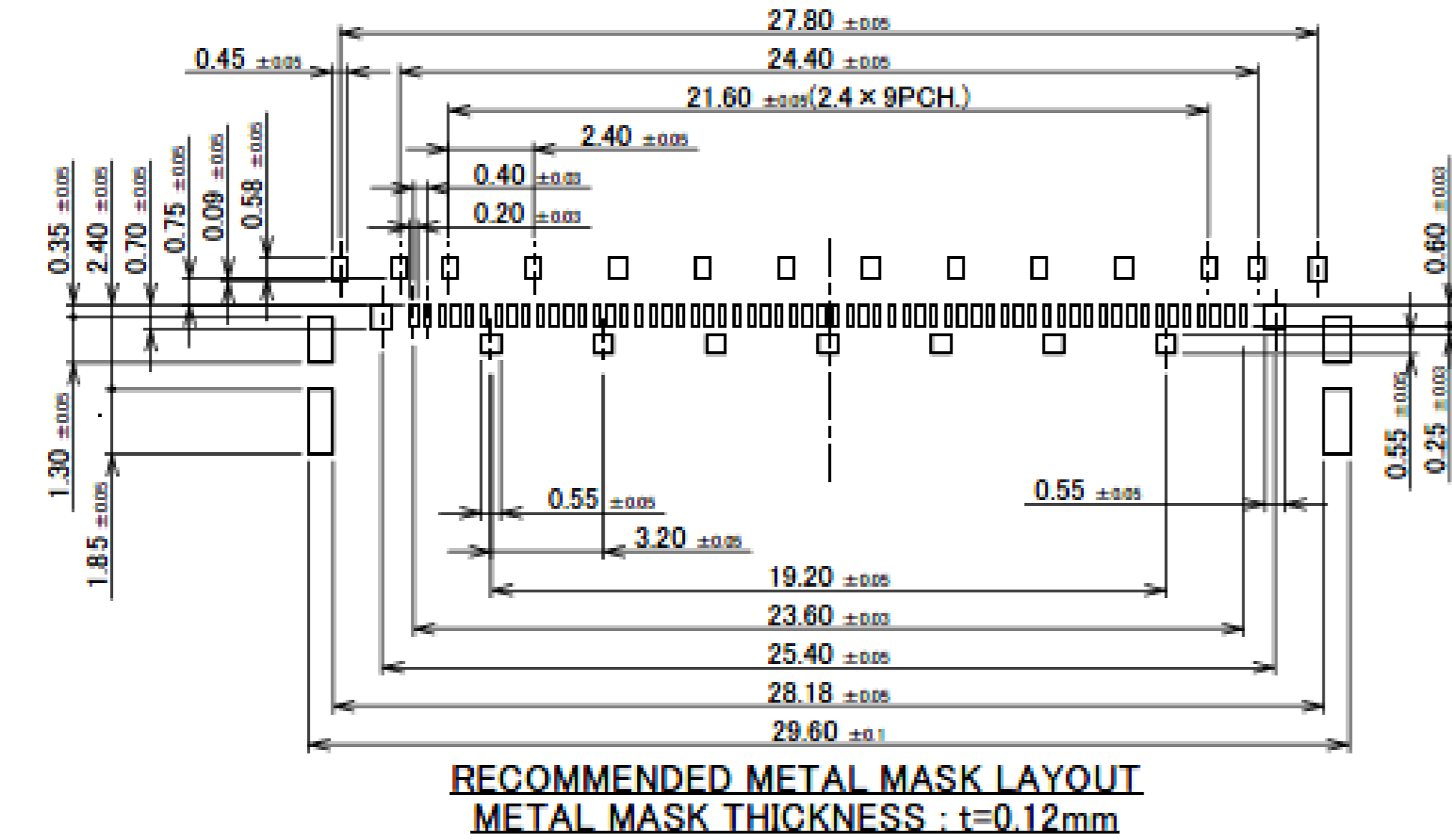
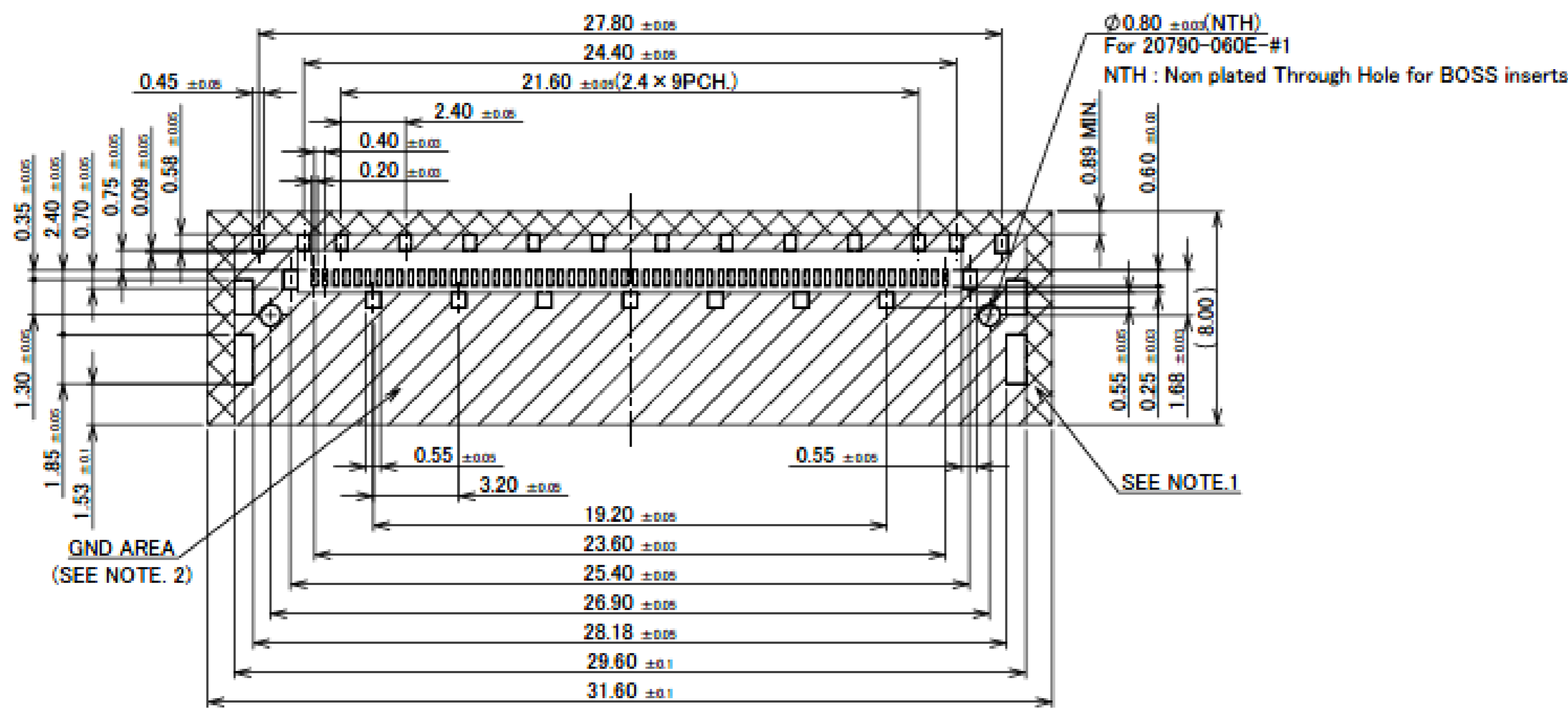
Receptacle Assembly

Recommended P/N	20790-060E-02
PART NO.	Pos.
20790-060E-##	60

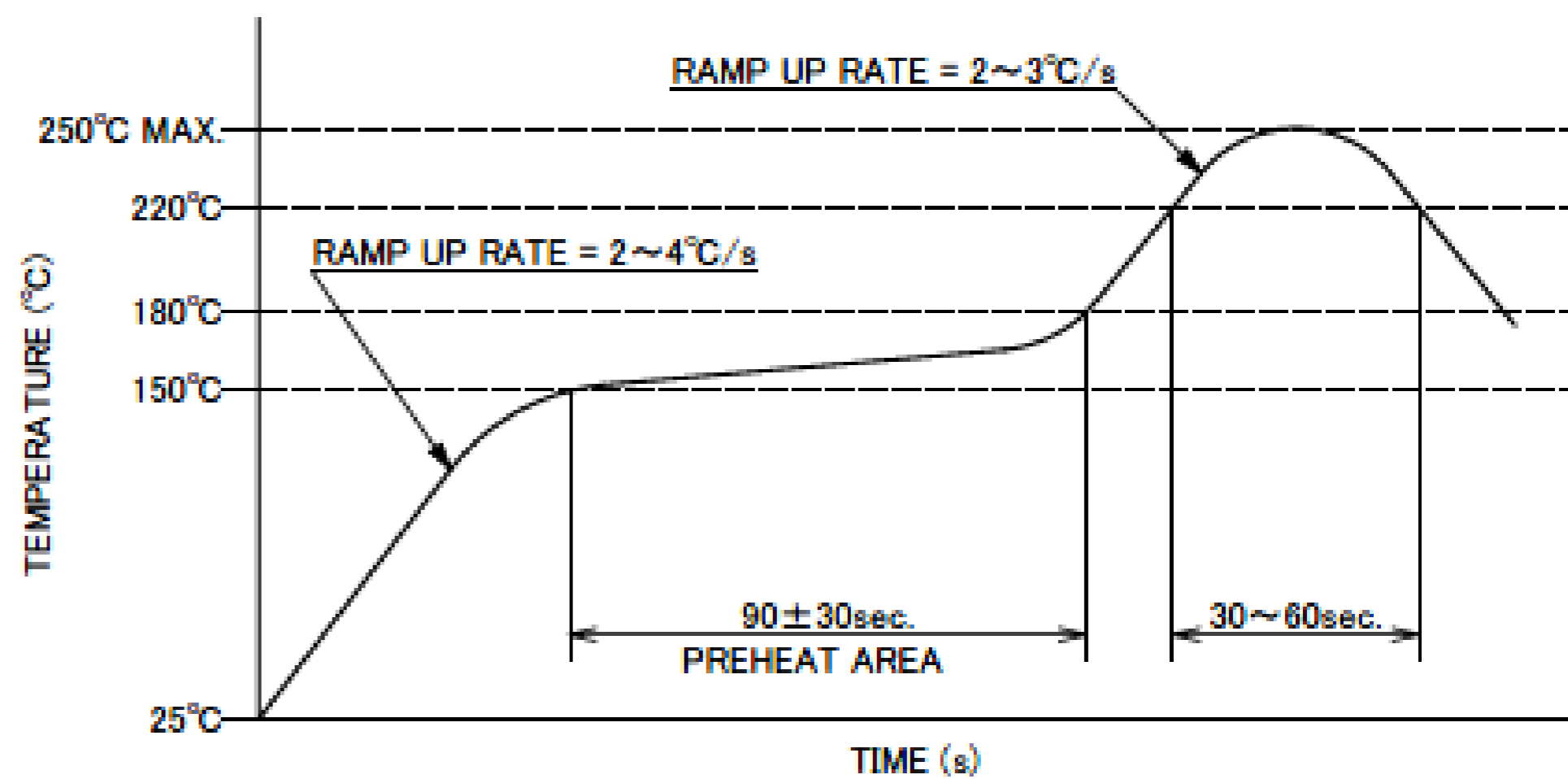
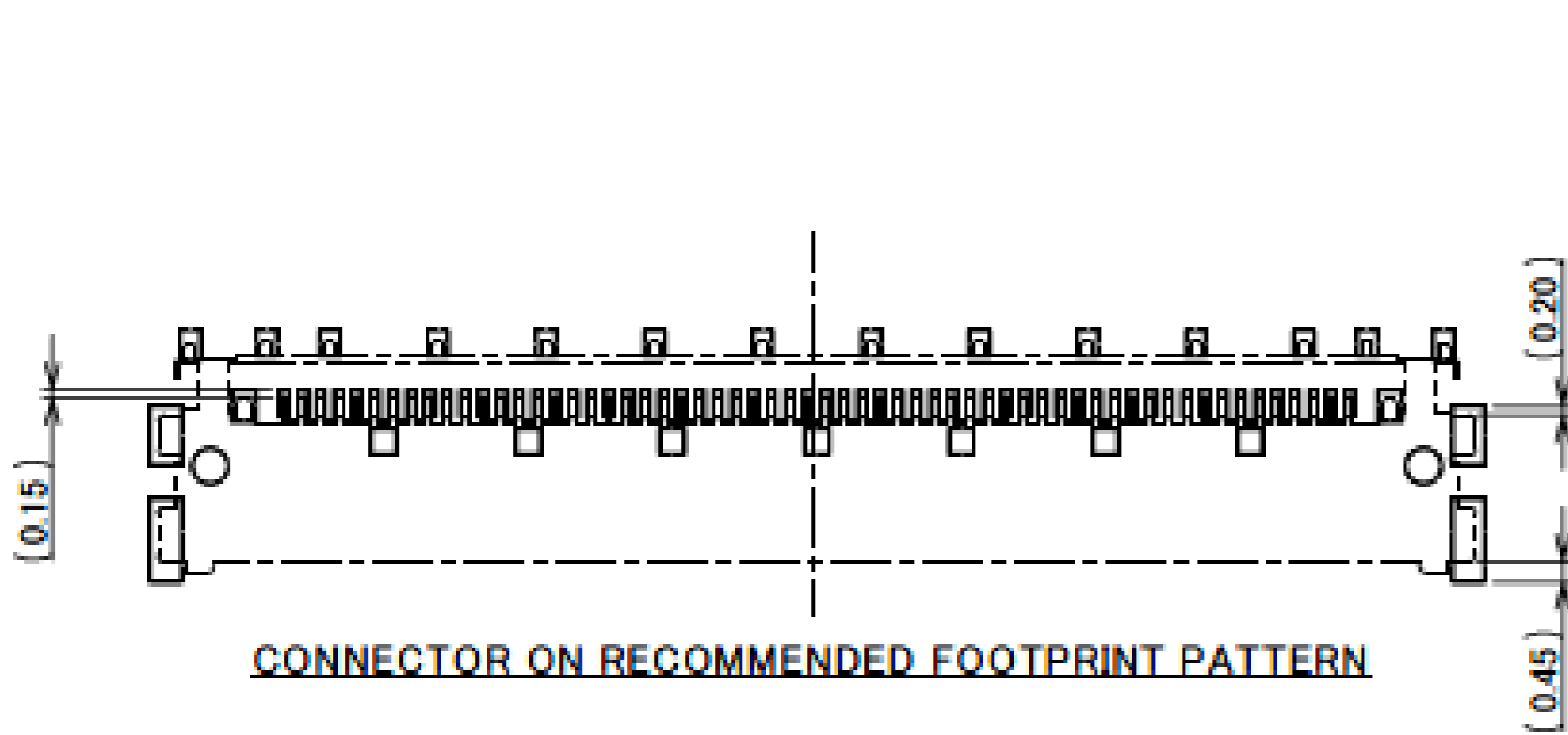


Rev.17

Receptacle Assembly



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



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

Receptacle Assembly

FOR CABLINE-CA IIF PLUS PLUG SHELL ASSEMBLY (DWG. NO. 20901)

ITEMS	SPECIFICATION
RATING VOLTAGE	100V AC (PER CONTACT PIN)
RATING AMPERAGE (FOR SIGNAL CONTACT)	0.3A AC/DC (PER CONTACT PIN) ※TESTING BY REAL MACHINE IS RECOMMENDED BECAUSE TEMPERATURE RISE MAY AFFECTED BY ACTUAL SITUATION.
OPERATING TEMPERATURE	233~358K(−40°C~+85°C)
OPERATING HUMIDITY	85% MAX.(NON-CONDENSING)
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)	27.0N MAX.
UNMATING FORCE (INITIAL / AFTER TEST)	2.88N MIN.
PRODUCT SPECIFICATION	PRS-2893
TEST REPORT	TR-24034
PACKING STANDARD	PST-24023
INSTRUCTION MANUAL	HIM-24010
ASSEMBLY MANUAL	ASM-24004
APPEARANCE CRITERIA No.	QLS-A***

Rev.17

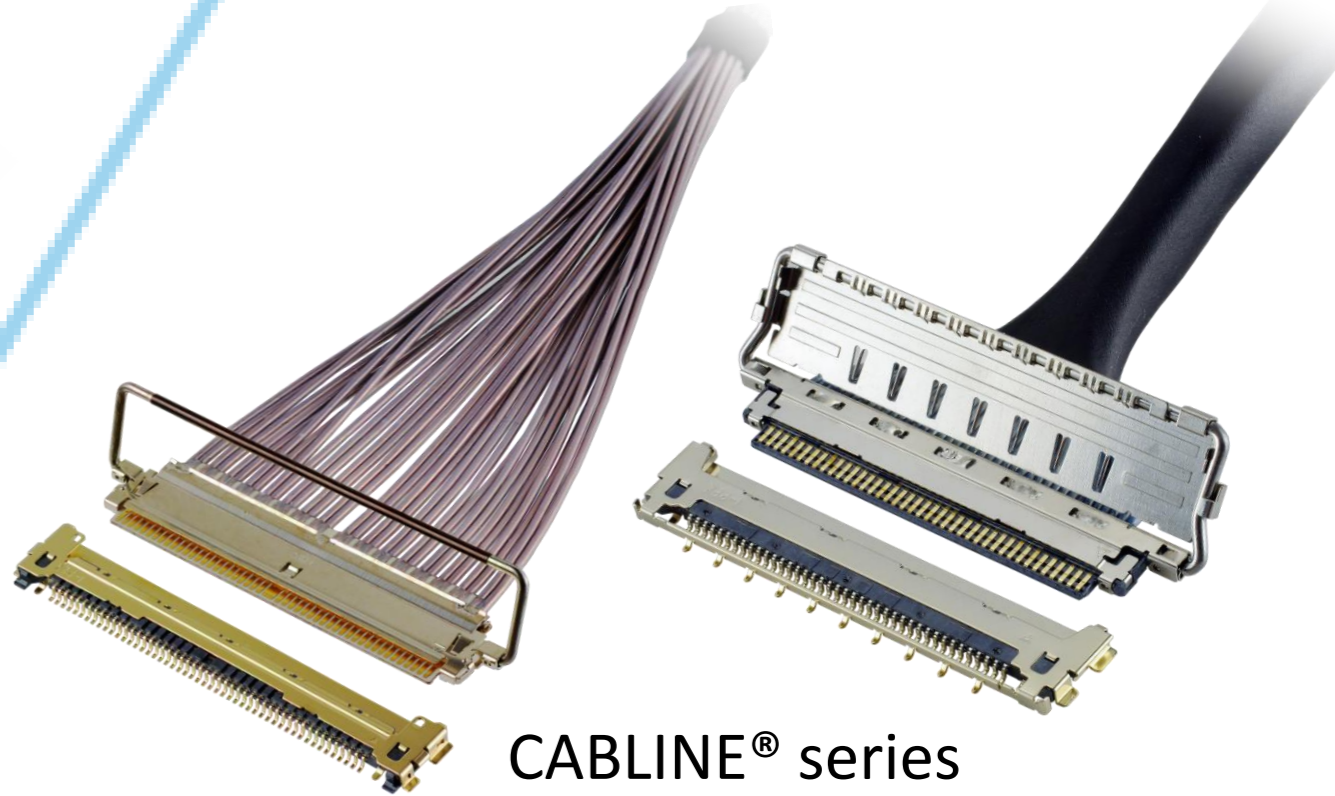
Custom Connectors Available

 RF
Connectors

MHF® series



CABLINE® series



 Micro-Coaxial/Twinax
Connectors



Wire-to-Board
Connectors/
Terminals

AP series



ISH® series



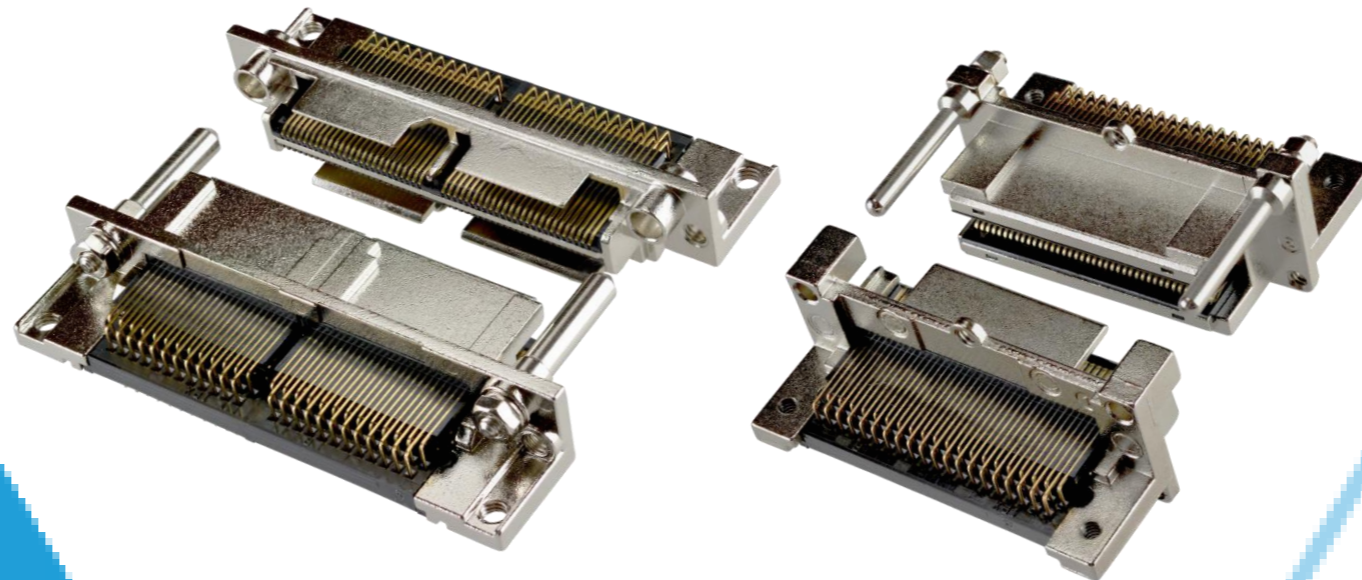
NOVASTACK® series



Board-to-Board
Connectors



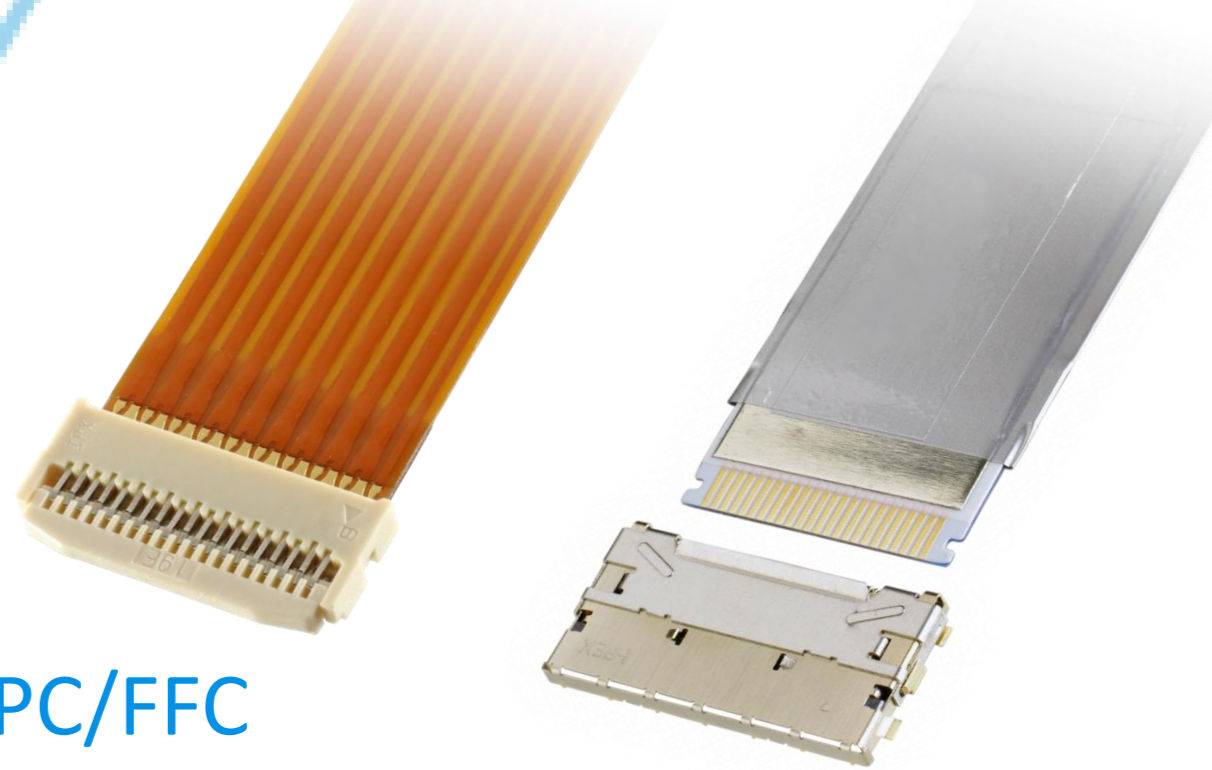
I/O
Connectors



MINIDOCK™ series

MINIFLEX® series

EVAFLEX® series



FPC/FFC
Connectors



Inquiry



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