

EVAFLEX® 5-VS

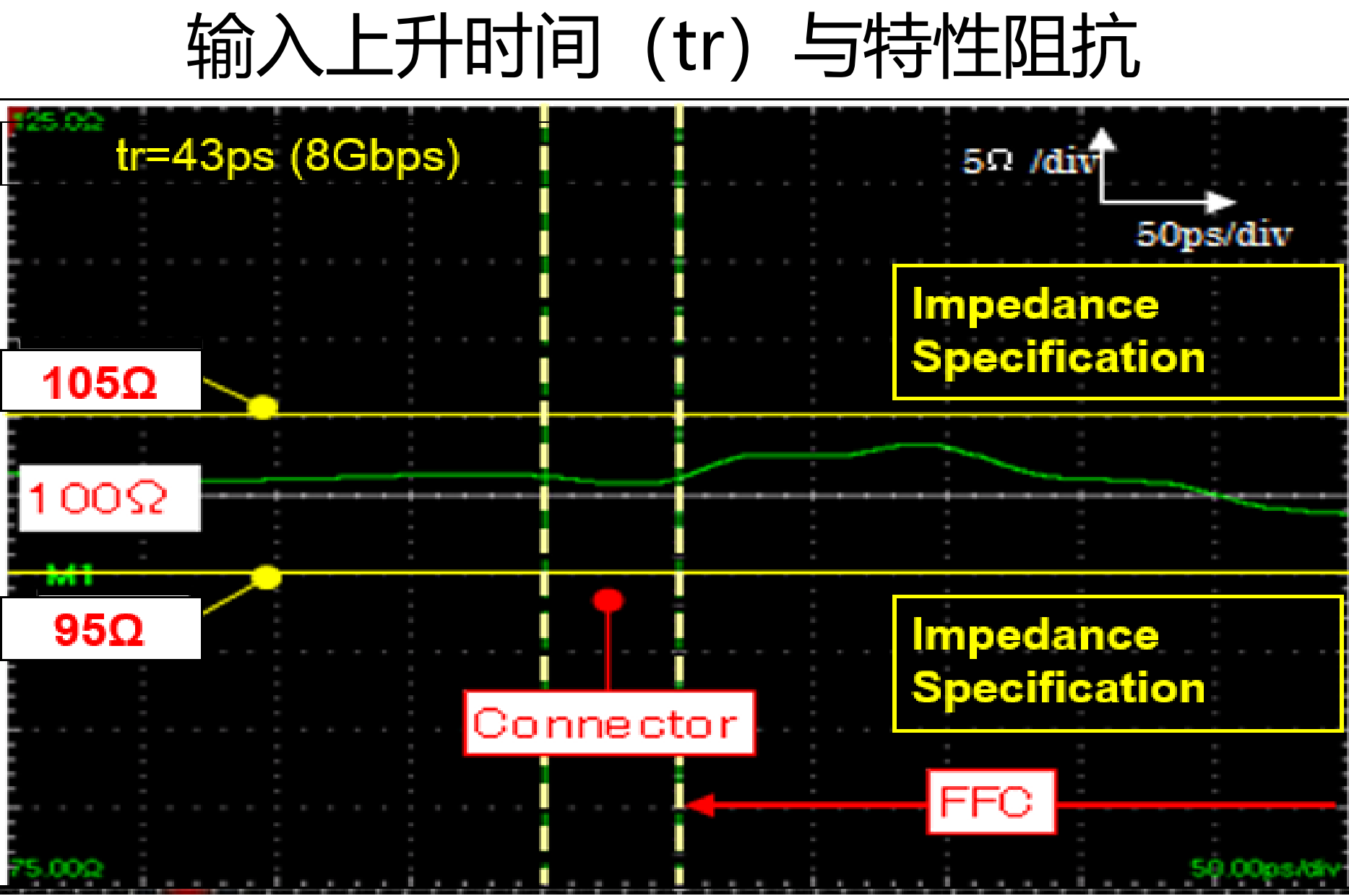
自动锁扣，高温款可选(105°C)，高速数据传输，水平插拔, 0.5 mm 间距带屏蔽罩的 FFC/FPC连接器



Product Specifications:			Applicable FPC/FFC:	
Board Pitch		0.5 mm	FPC/FFC Type	Shielded FFC, Non-shielded FFC/FPC
Wiping Length		1.1 mm	FPC/FFC Contact Point	Top
Size	Height	1.90 +/- 0.10 mm	FPC/FFC Thickness	0.33 +/- 0.03 mm
	Width	6.25 + (0.5 x pin count) mm	Applicable Standards (Reference Only): USB 3.1 Gen 1 (5 Gbps) eDP HBR 3 (8.1 Gbps) eDP HBR 2 (5.4 Gbps) eDP (2.7 Gbps) HDMI 2.0 (6 Gbps) V-By-One HS 1.4 (4 Gbps) MiPi standards USCAR II Vibration & Shock V1	
	Depth	4.95 +/- 0.20 mm		
Pin counts	Range	10 to 50		
	Available	10, 15, 20, 24, 30, 40, 50		

*如您需要了解未列出或不在范围内的Pin数，请咨询我们。

支持 8+ Gbps 高速数据传输

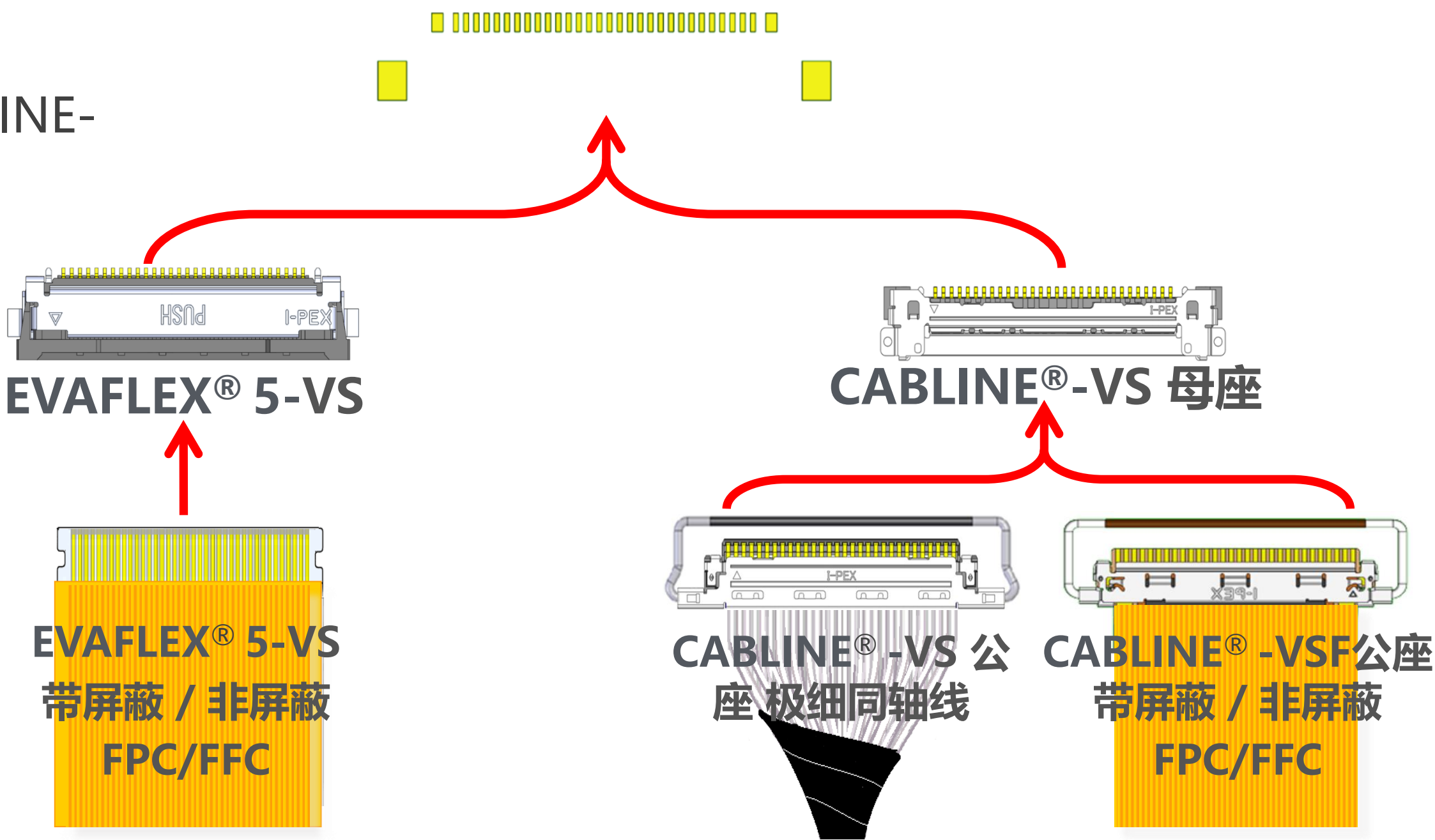


测试条件:
双面屏蔽的FFC
(特性阻抗匹配100 ohm)

PCI Express® 3.0 (8 Gbps)

焊盘兼容CABLINE®-VS系列产品(VESA®标准笔记本电脑LCD面板用连接器)

EVAFLEX® 5-VS可以和VESA 标准 CABLINE-
VS系列的母座的焊盘兼容



EVAFLEX® 系列: 更多选择的自动锁扣连接器

高速和全EMI 屏蔽 : EVAFLEX® 5-HD

	EVAFLEX® 5-HD
Height	2.00 +/- 02 mm
Reference Performance	USB4 (20 Gbps)
Special Feature	360度全屏蔽，多点接地设计防止EMI 外泄

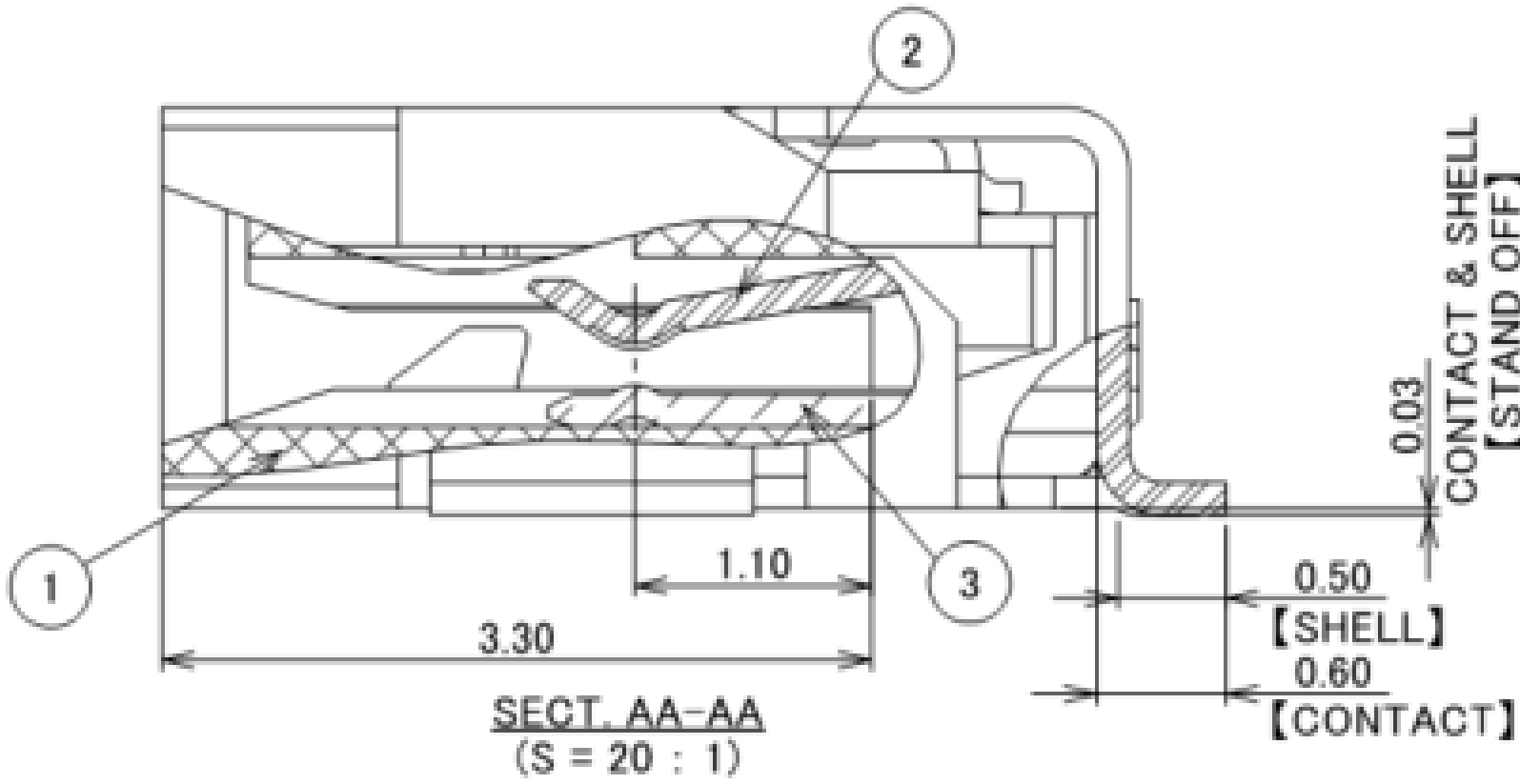
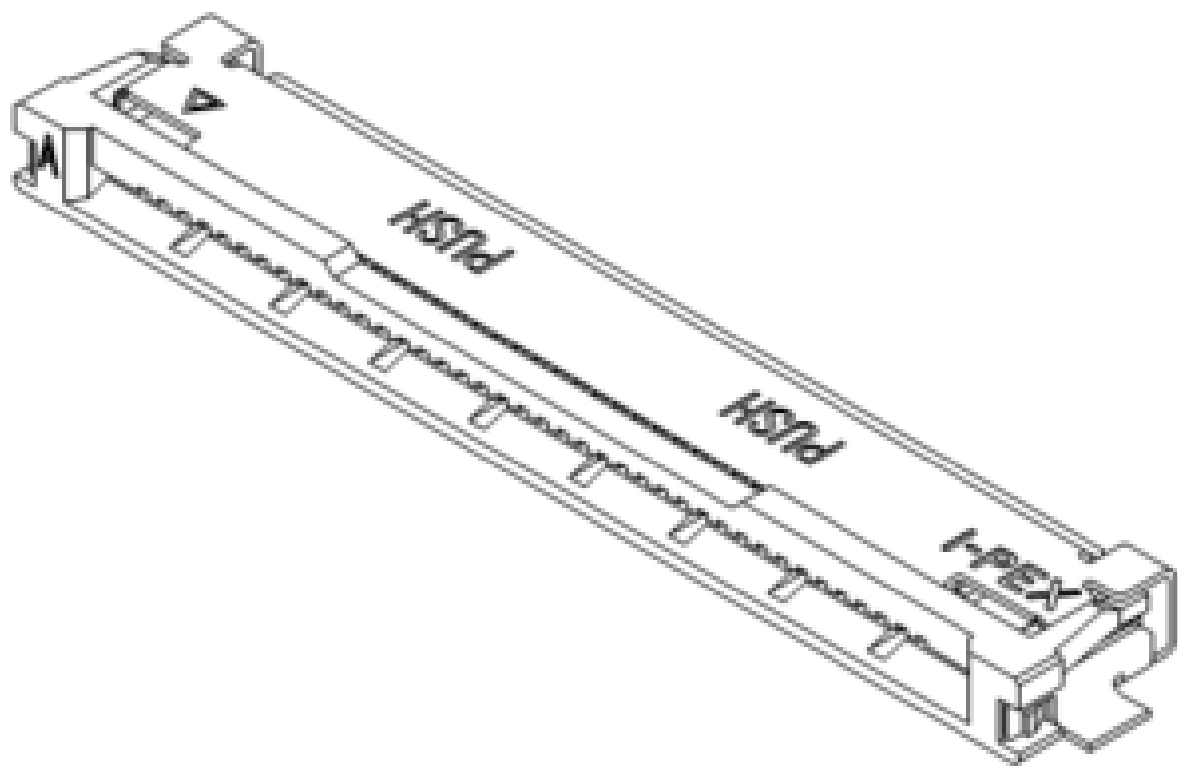
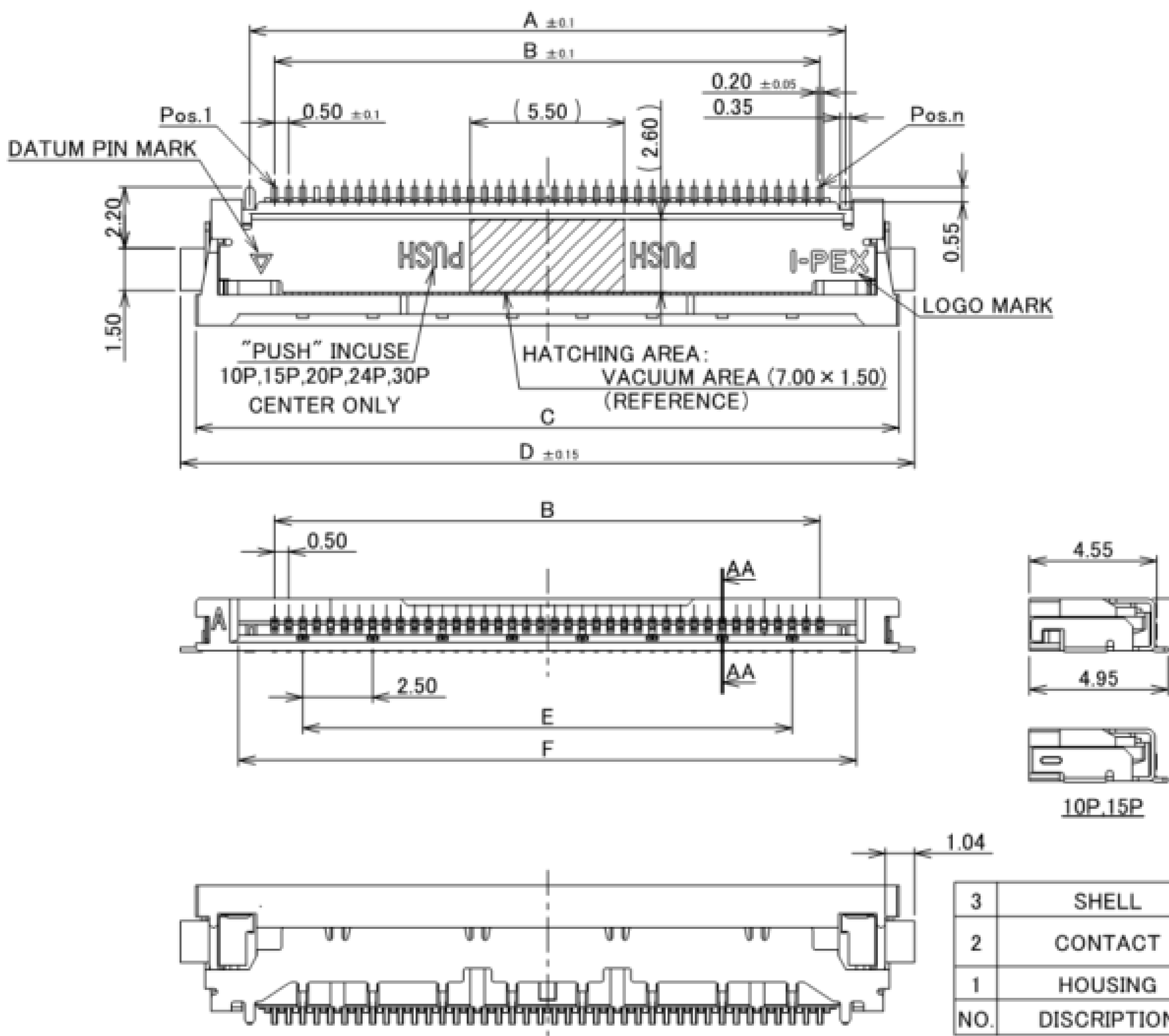


Component Parts Detail

Connector Assembly

Recommended P/N		20535-0**E-02					
PART No.	POS.	A	B	C	D	E	F
20535-010E-02	10P	6.30	4.50	10.17	11.25	2.50	7.10
20535-015E-02	15P	8.80	7.00	12.67	13.75	5.00	9.60
20535-020E-02	20P	11.30	9.50	15.17	16.25	7.50	12.10
20535-024E-02	24P	13.30	11.50	17.17	18.25	7.50	14.10
20535-030E-02	30P	16.30	14.50	20.17	21.25	12.50	17.10
20535-040E-02	40P	21.30	19.50	25.17	26.25	17.50	22.10

P/N: 20535-0**E-02
Pos.

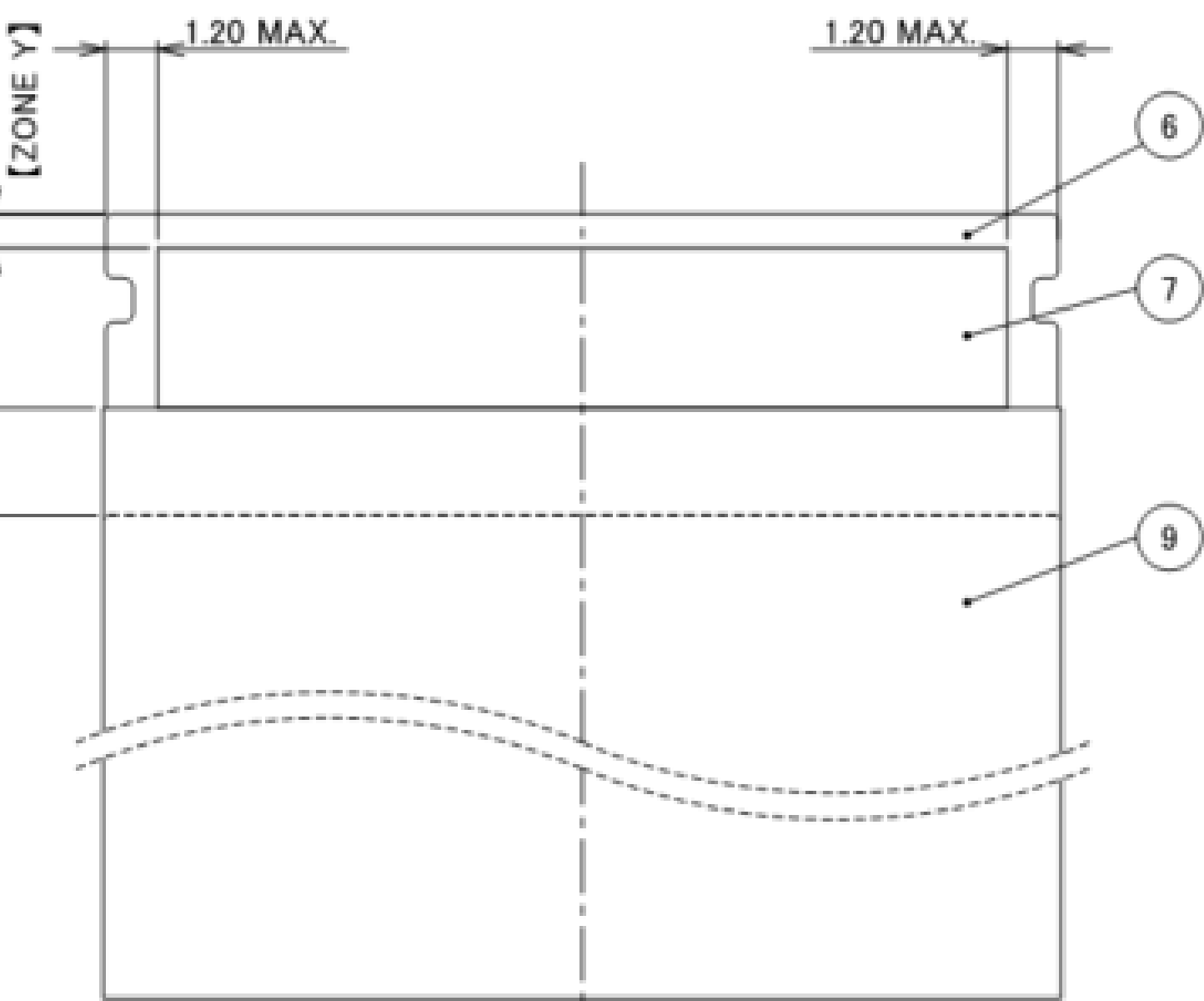
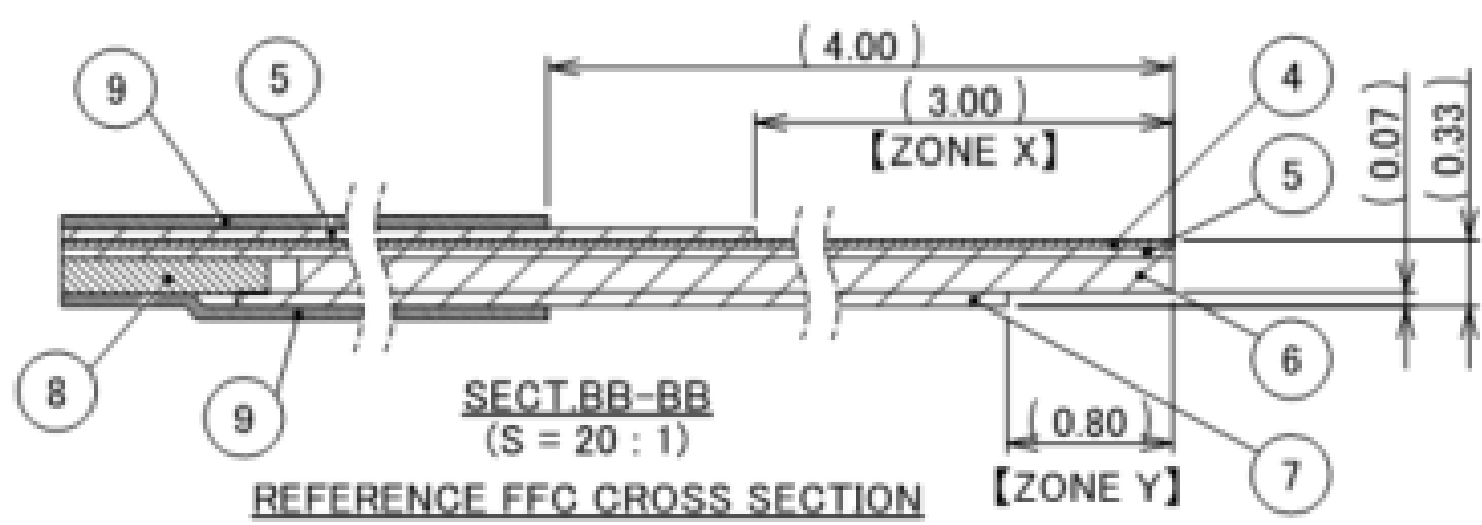
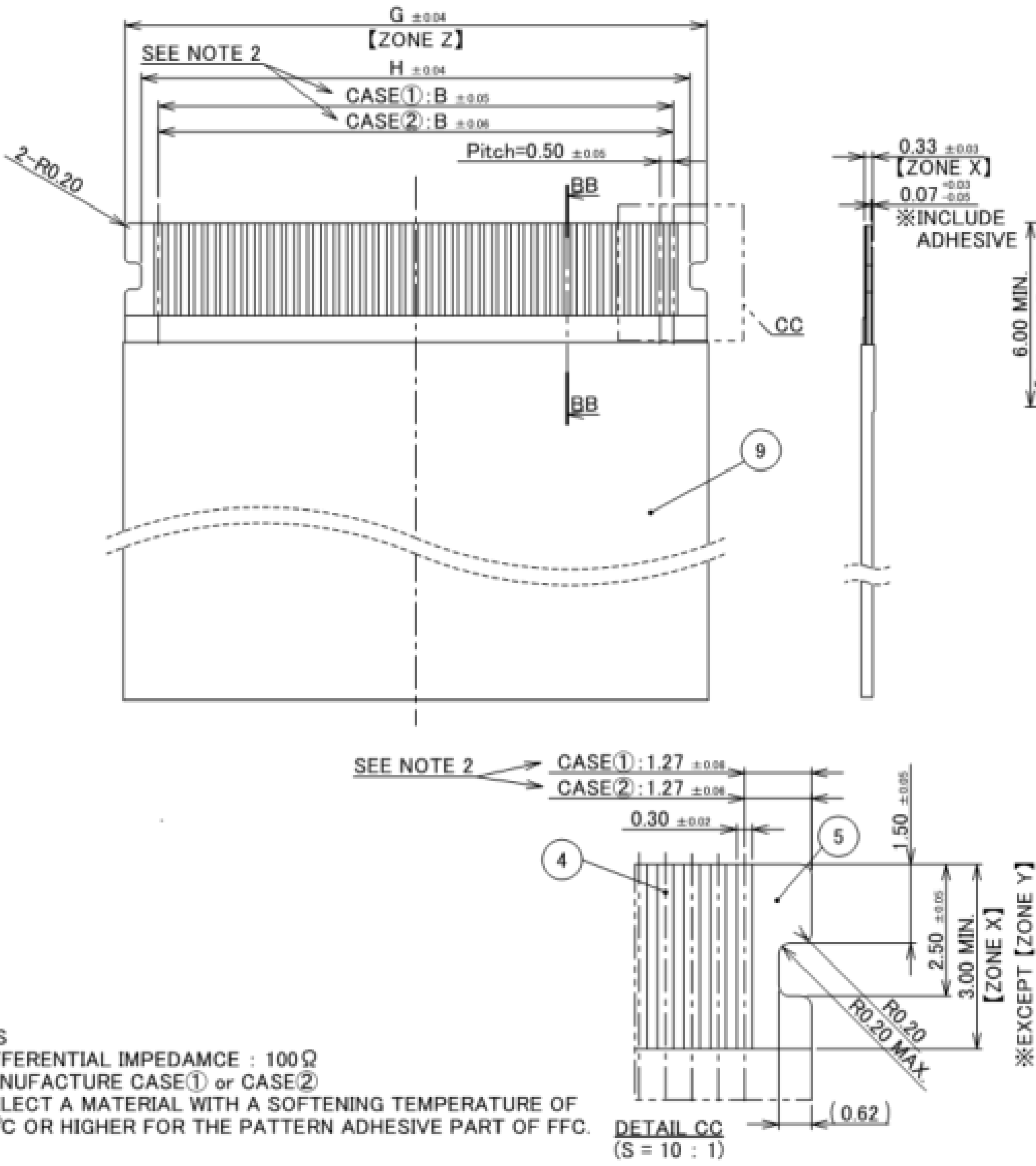


NO.	DISCRIPTION	MATERIAL	FINISH , REMARKS
3	SHELL	PHOSPHOR BRONZE	Sn 1.00 μ m MIN. OVER Ni 1.00 μ m MIN. PLATING
2	CONTACT	PHOSPHOR BRONZE	Au OVER Ni PLATING CONTACT AREA: Au 0.03 μ m MIN. OVER Ni 1.00 μ m MIN.
1	HOUSING	LCP	UL94V-0, BLACK

Connector Assembly

Recommended P/N		20535-0**E-02		
PART No.	POS.	B	G	H
20535-010E-02	10P	4.50	7.04	5.80
20535-015E-02	15P	7.00	9.54	8.30
20535-020E-02	20P	9.50	12.04	10.80
20535-024E-02	24P	11.50	14.04	12.80
20535-030E-02	30P	14.50	17.04	15.80
20535-040E-02	40P	19.50	22.04	20.80

RECOMMENDED FFC DIMENSION

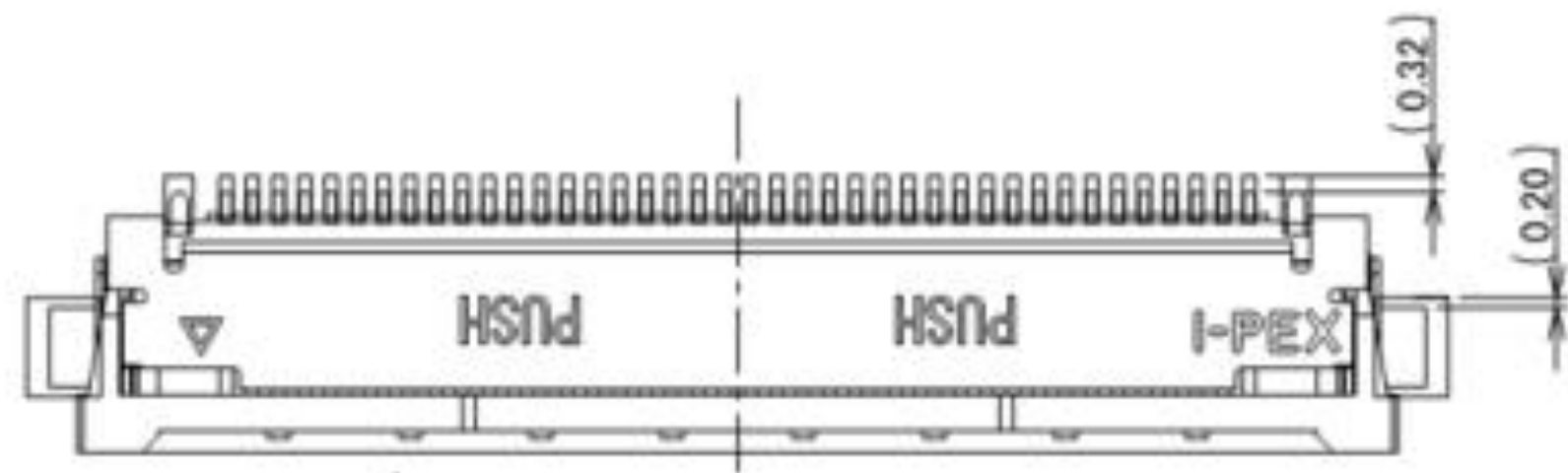
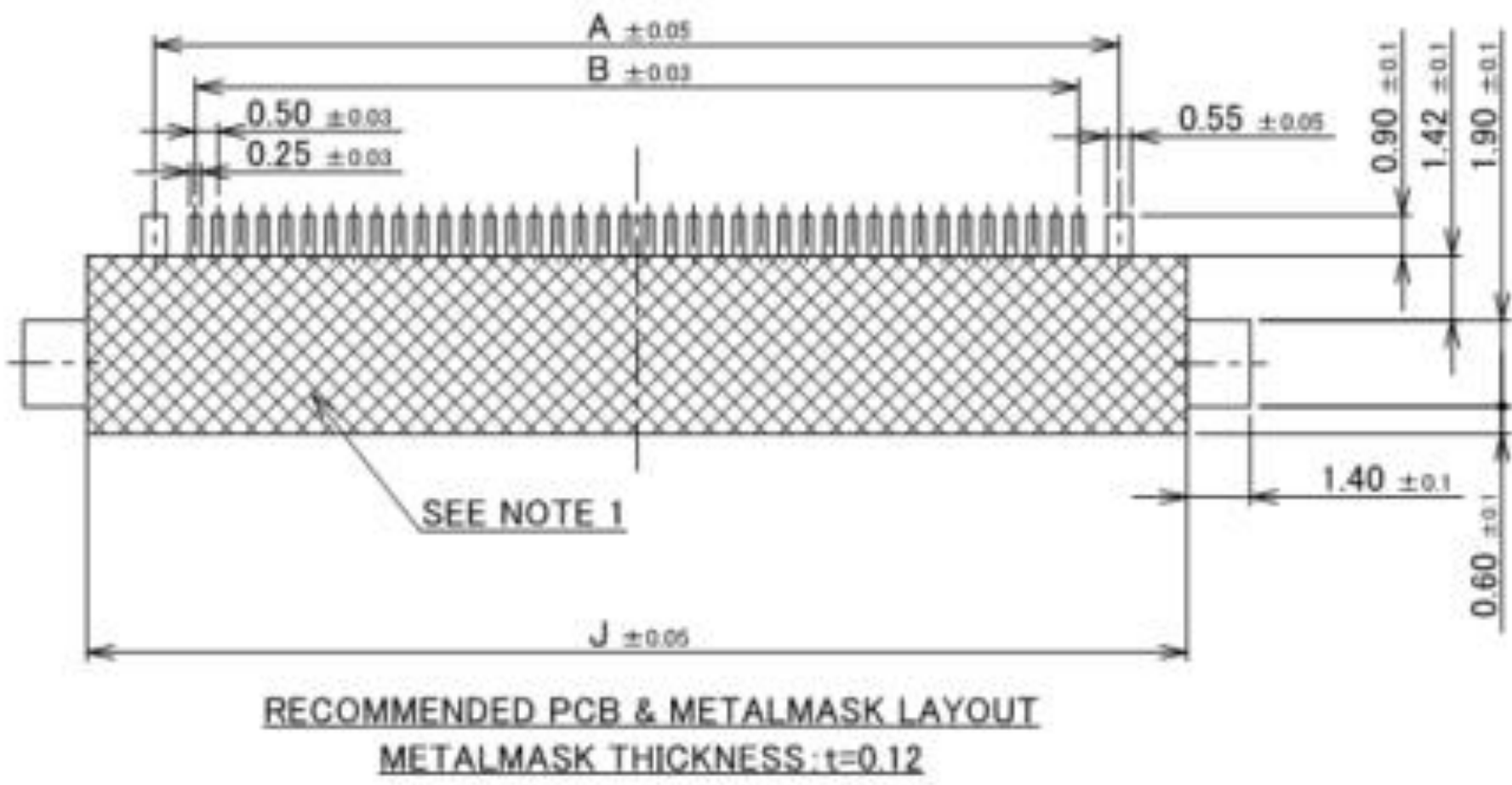


9	SHIELD TAPE	METALIC FILM	-
8	INTERLAYER	ARBITRARY	-
7	GROUND PLATE	METARIC FILM	POLISH or HALF POLISH Sn PLATING
6	REINFORCED TAPE	ARBITRARY	-
5	INSULATION FILM	ARBITRARY	-
4	CONDUCTOR	COPPER ALLOY	CONTACT AREA: Au 0.05 μ m MIN. OVER Ni 0.5 μ m MIN.
NO.	DISCRIPTION	MATERIAL	FINISH , REMARKS

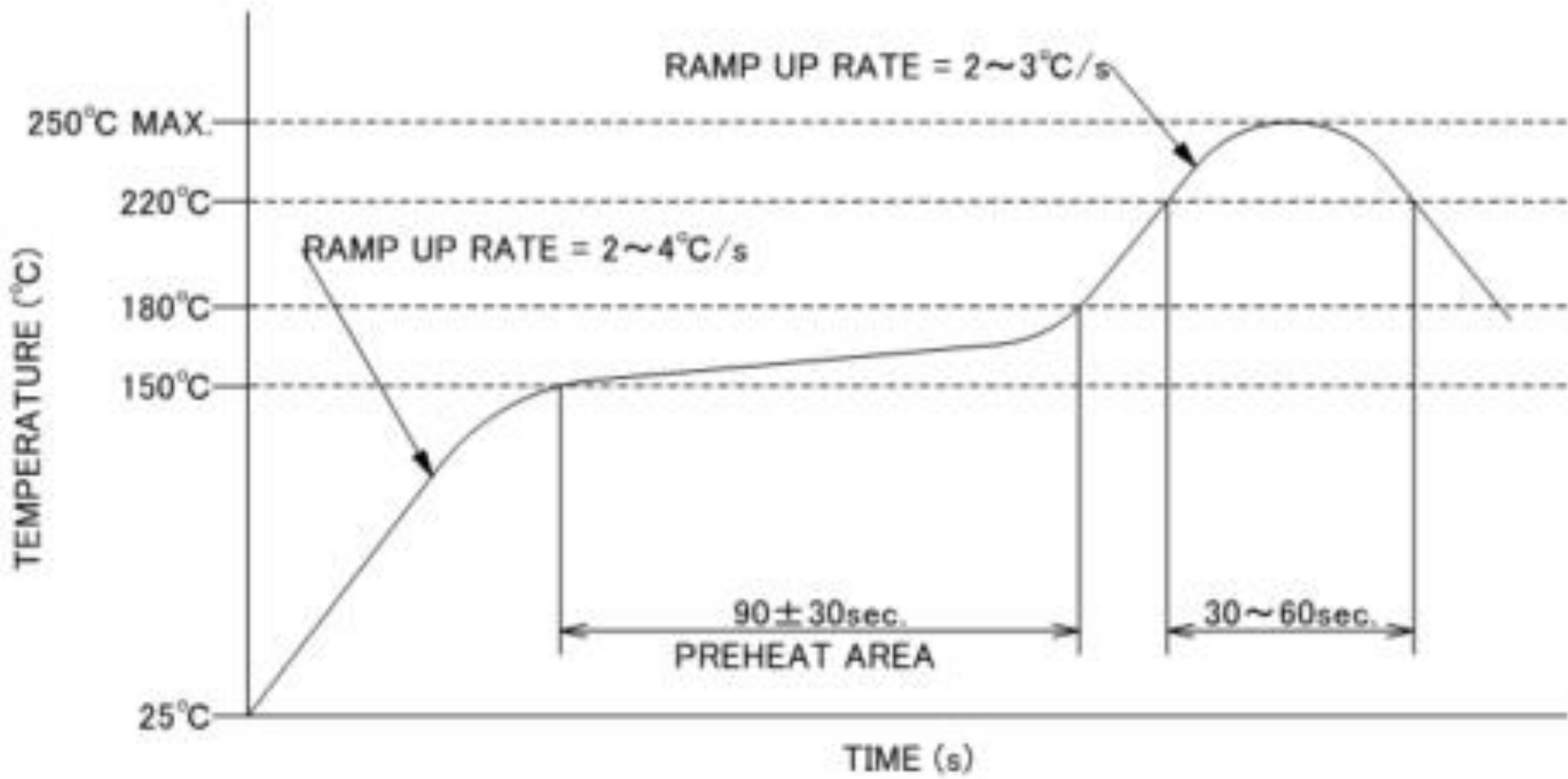
- NOTES
- 1. DIFFERENTIAL IMPEDANCE : 100 Ω
 - 2. MANUFACTURE CASE 1 or CASE 2
 - 3. SELECT A MATERIAL WITH A SOFTENING TEMPERATURE OF 85°C OR HIGHER FOR THE PATTERN ADHESIVE PART OF FFC.

Rev.16

Recommended P/N		20535-0**E-02		
PART No.	POS.	A	B	J
20535-010E-02	10P	6.30	4.50	9.30
20535-015E-02	15P	8.80	7.00	11.80
20535-020E-02	20P	11.30	9.50	14.30
20535-024E-02	24P	13.30	11.50	16.30
20535-030E-02	30P	16.30	14.50	19.30
20535-040E-02	40P	21.30	19.50	24.30



CONNECTOR ON RECOMMENDED FOOTPRINT PATTERN



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

NOTE

1. SOLDER RESIST MUST BE APPLIED TO THIS AREA.

Rev.16

Connector Assembly

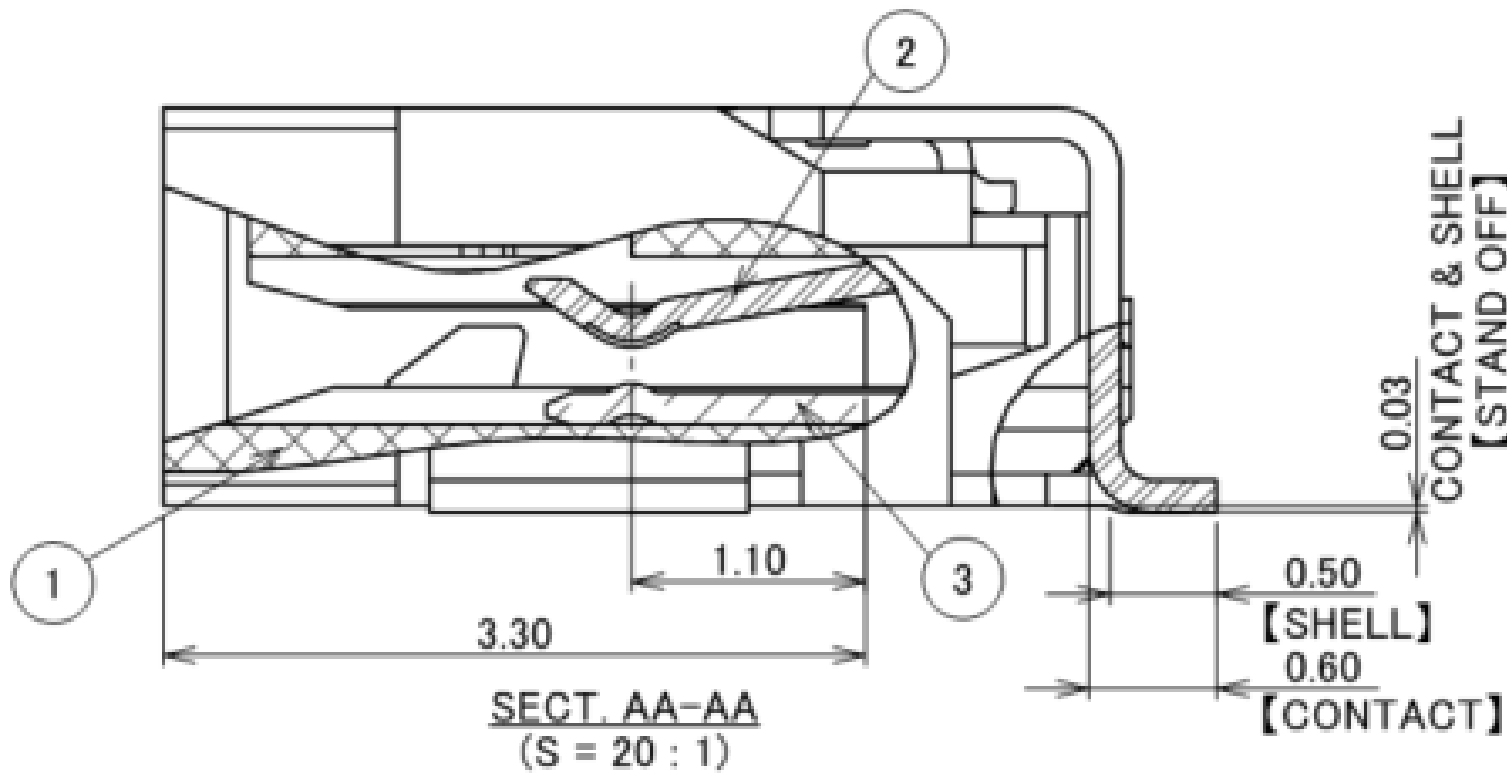
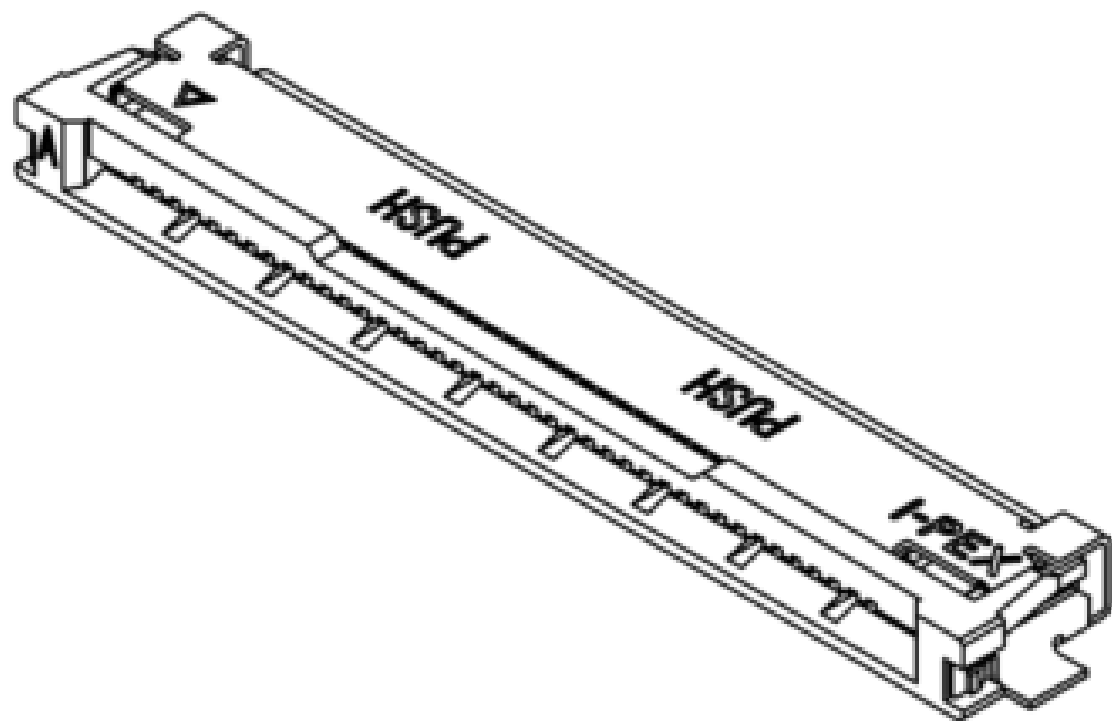
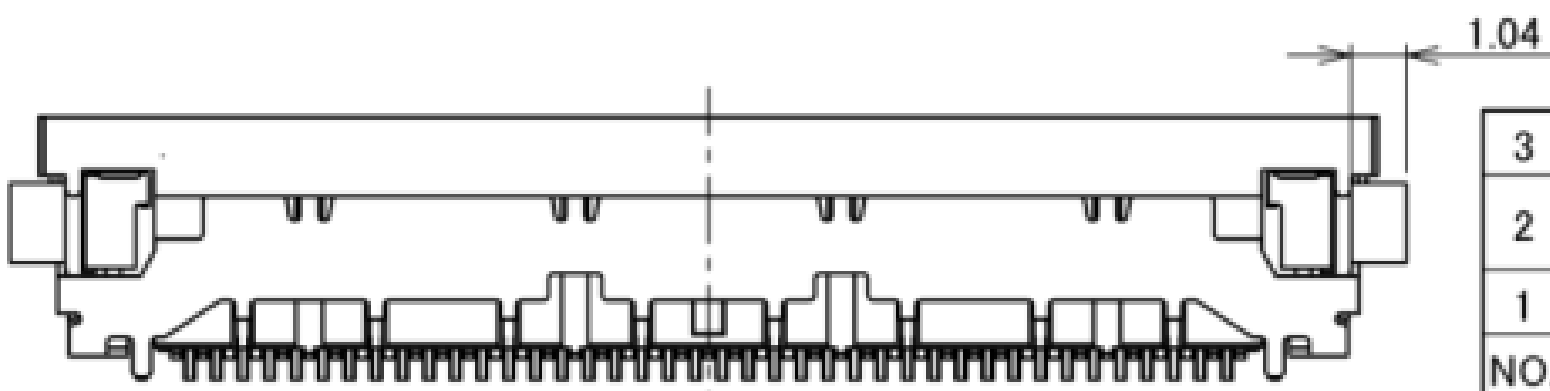
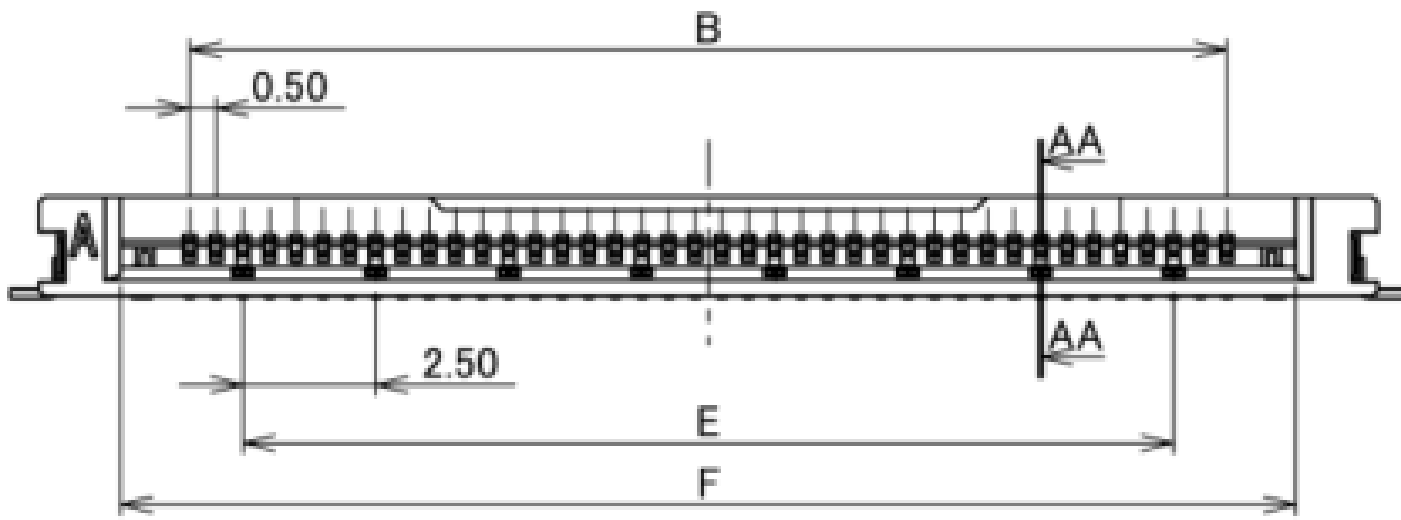
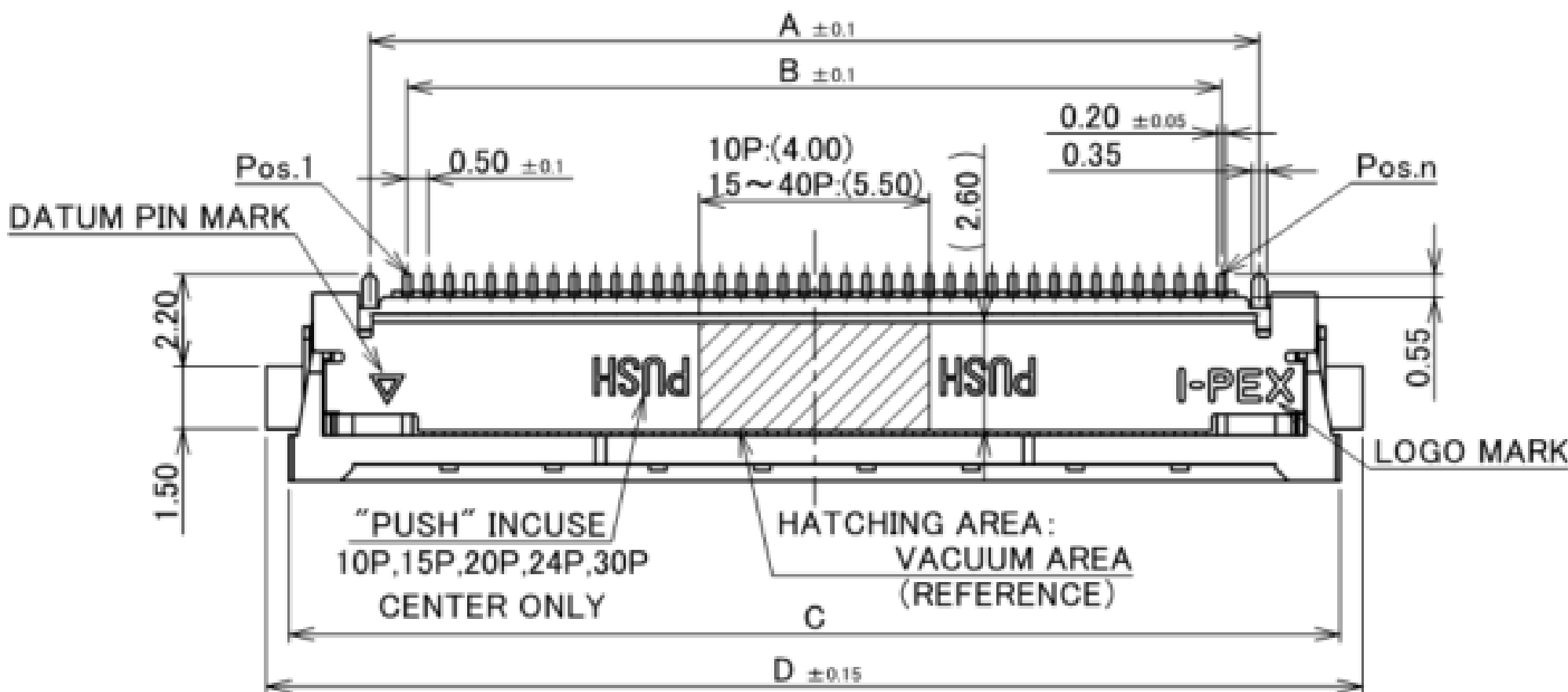
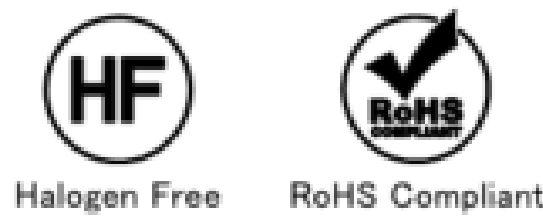
ITEMS	SPECIFICATION
RATING VOLTAGE	200V AC/DC (PER CONTACT PIN)
RATING AMPERAGE (FOR CONTACT)	0.3A AC/DC (PER CONTACT PIN) IN CASE OF APPLYING 0.5A PER CONTACT PIN, THE TOTAL CURRENT OF THE WHOLE CONNECTOR SHALL BE 15.0A OR LOWER.
OPERATING TEMPERATURE	233~358K(-40°C~+85°C)
OPERATING HUMIDITY	85% MAX.(NON-CONDENSING)
CONTACT RESISTANCE (FOR SIGNAL CONTACT)	INITIAL : 60mohm MAX. / AFTER TEST : $\triangle$ 40mohm MAX.
INSULATION RESISTANCE	INITIAL : 100Mohm MIN. / AFTER TEST : 100Mohm MIN.
DIELECTRIC WITHSTANDING VOLTAGE	AC250V 1min
DURABILITY	30 CYCLES
MATING FORCE (INITIAL / AFTER TEST)	10P : 6.0N MAX. 15P : 9.0N MAX. 20P : 12.0N MAX. 24P : 14.4N MAX. 30P : 18.0N MAX. 40P : 24.0N MAX.
UNMATING FORCE (INITIAL / AFTER TEST)	10P : 1.0N MIN. 15P : 1.5N MIN. 20P : 2.0N MIN. 24P : 2.4N MIN. 30P : 3.0N MIN. 40P : 4.0N MIN.
COPLANARITY	0.10 MAX.
PRODUCT SPECIFICATION	PRS-1670
TEST REPORT	TR-12108
PACKING STANDARD	300-997
INSTRUCTION MANUAL	HIM-12003
APPEARANCE CRITERIA No.	QLS-A***

Rev.16

Recommended P/N 20720-0**E-02

PART NO.	POS.	A	B	C	D	E	F
20720-010E-02	10P	6.30	4.50	10.17	11.25	2.50	7.10
20720-015E-02	15P	8.80	7.00	12.67	13.75	5.00	9.60
20720-020E-02	20P	11.30	9.50	15.17	16.25	7.50	12.10
20720-024E-02	24P	13.30	11.50	17.17	18.25	7.50	14.10
20720-030E-02	30P	16.30	14.50	20.17	21.25	12.50	17.10
20720-040E-02	40P	21.30	19.50	25.17	26.25	17.50	22.10

P/N: 20720-0**E-02 Pos.



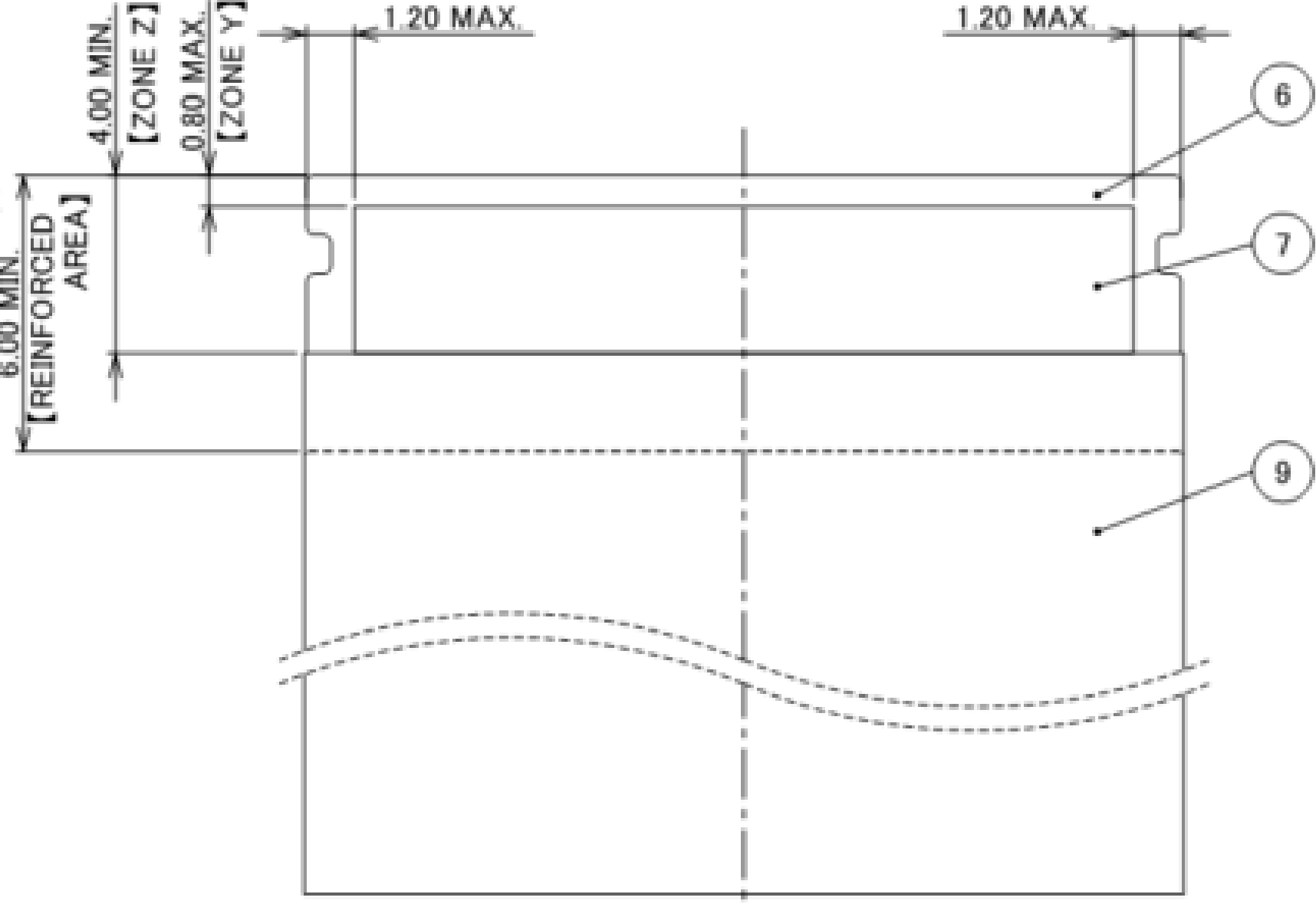
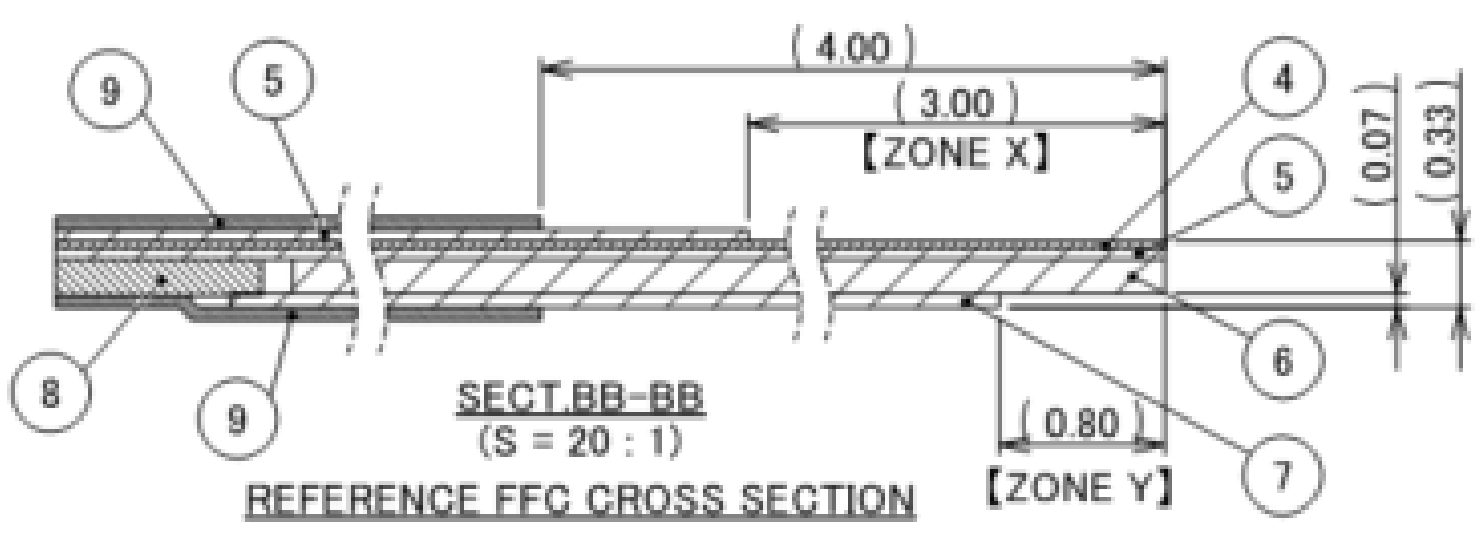
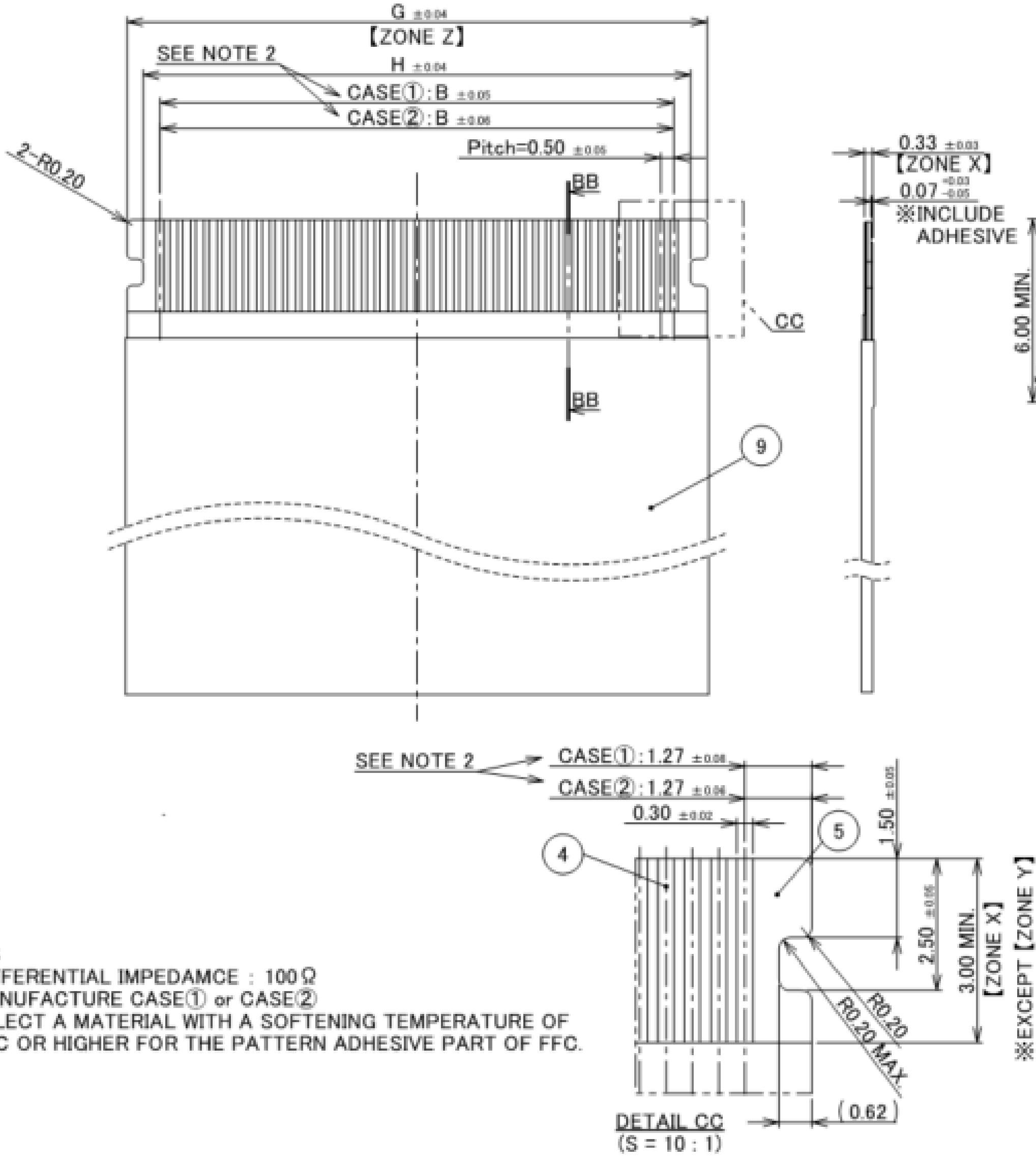
3	SHELL	PHOSPHOR BRONZE	Sn OVER Ni PLATING
2	CONTACT	CORSON ALLOY	Au OVER Ni PLATING
1	HOUSING	LCP	CONTACT AREA: Au 0.03 μ m MIN. OVER Ni 1.00 μ m MIN.
NO.	DISCRIPTION	MATERIAL	FINISH , REMARKS

Rev.9

Connector Assembly

Recommended P/N		20720-0**E-02		
FOR	POS.	B	G	H
20720-010E-02	10P	4.50	7.04	5.80
20720-015E-02	15P	7.00	9.54	8.30
20720-020E-02	20P	9.50	12.04	10.80
20720-024E-02	24P	11.50	14.04	12.80
20720-030E-02	30P	14.50	17.04	15.80
20720-040E-02	40P	19.50	22.04	20.80

RECOMMENDED FFC DIMENSION

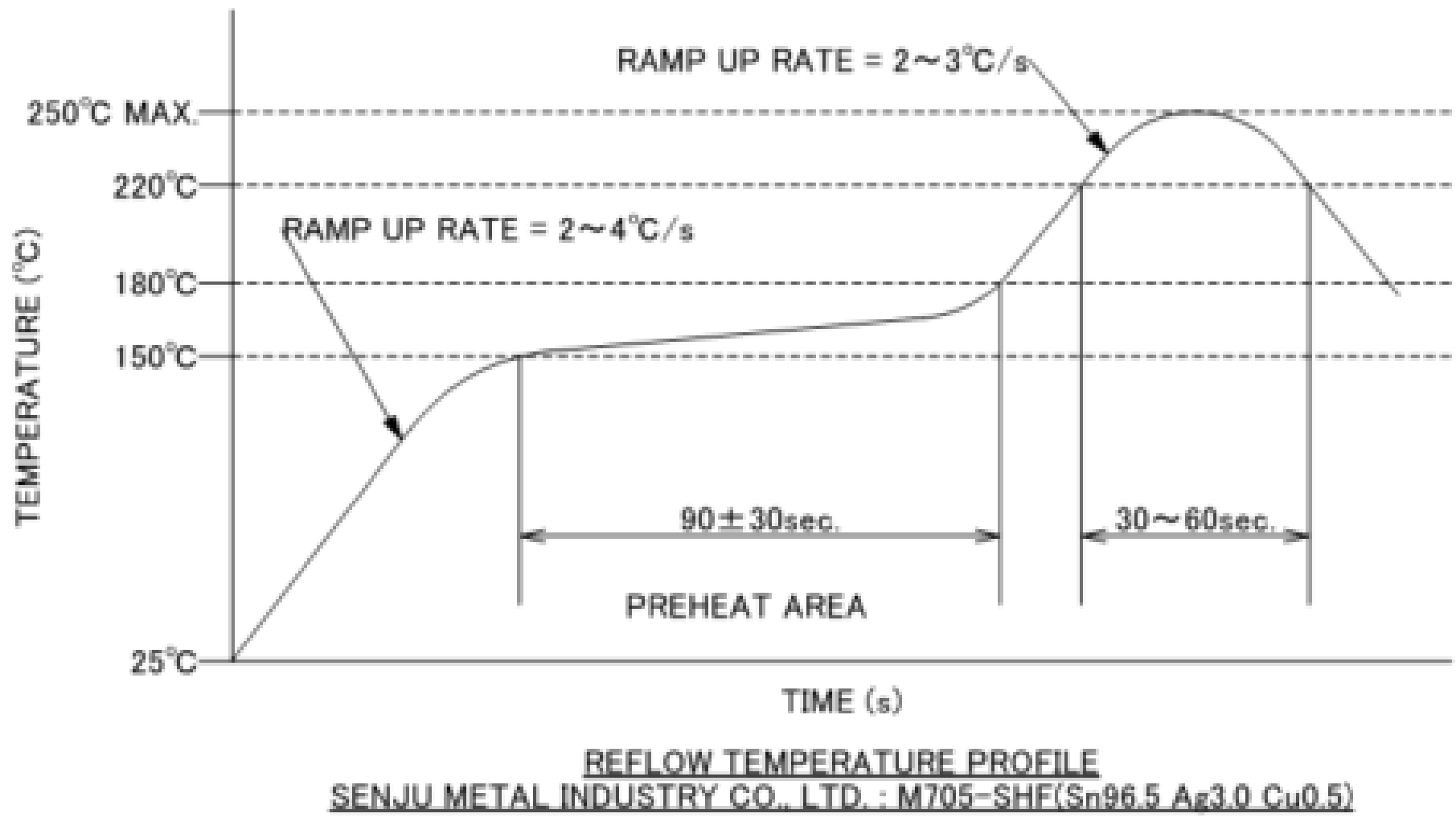
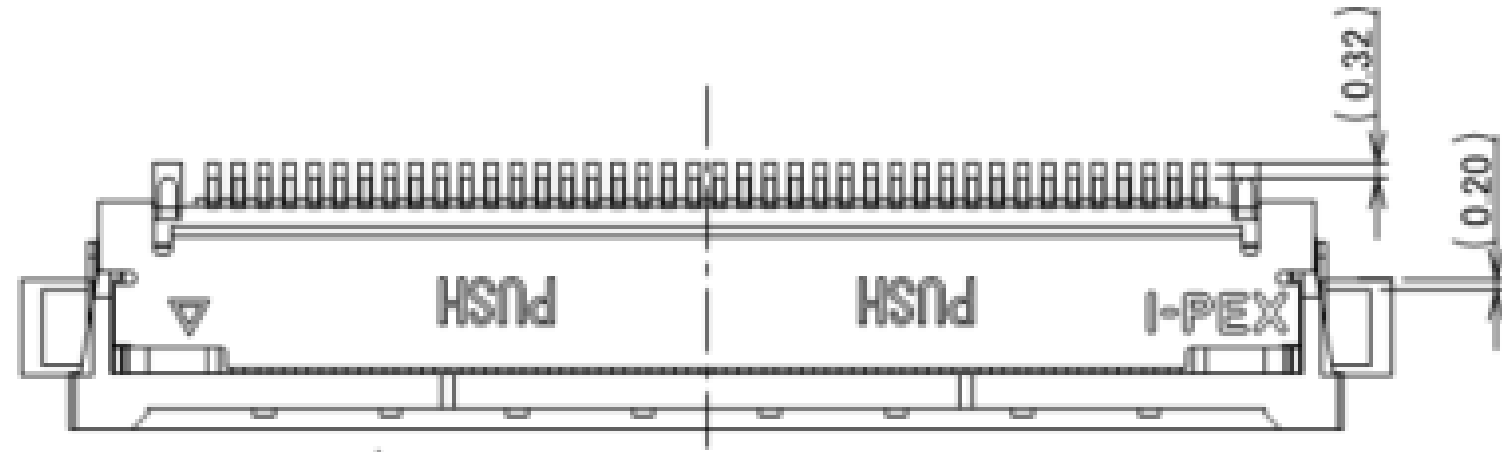
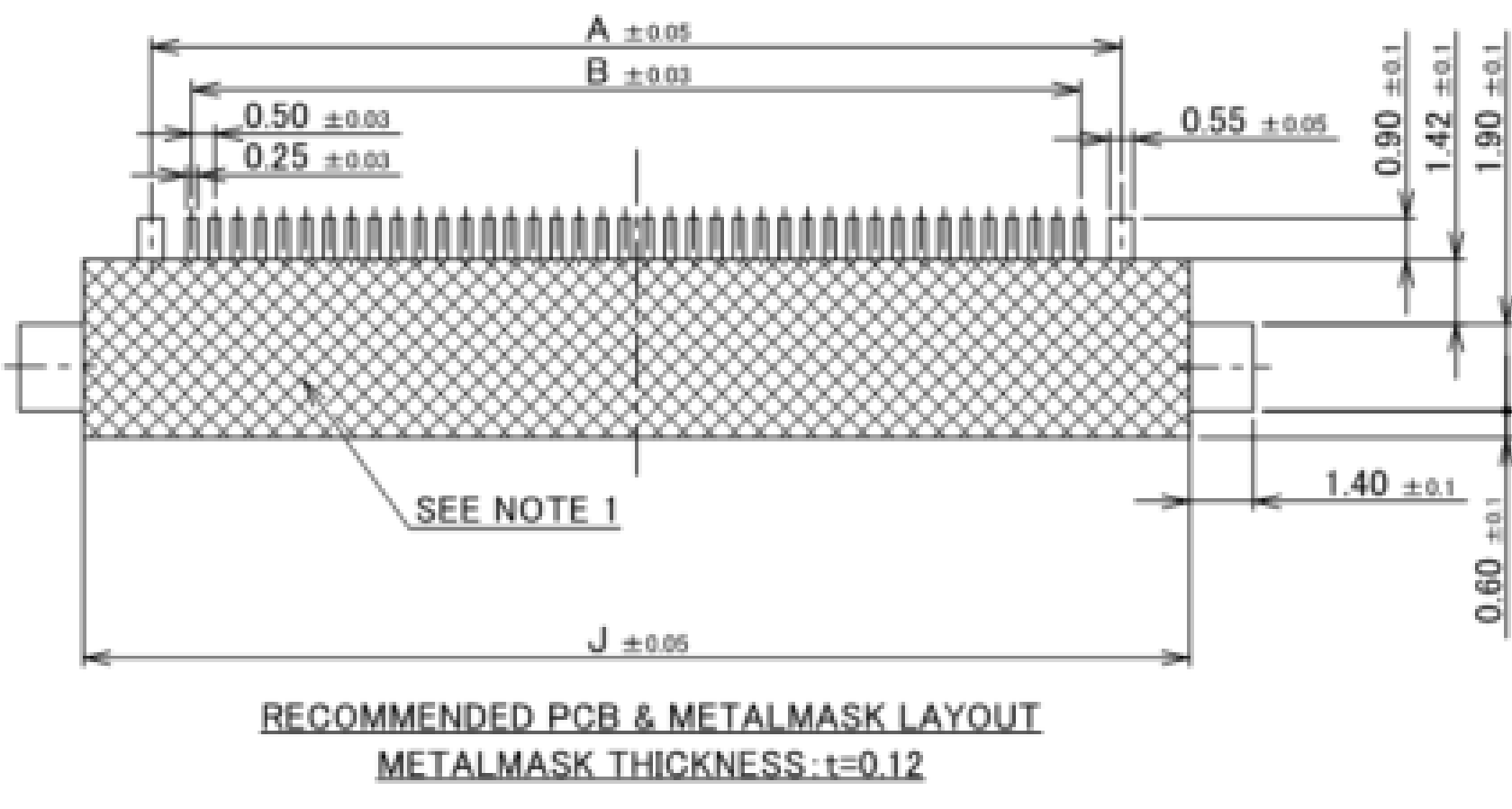


9	SHIELD TAPE	METALIC FILM	-
8	INTERLAYER	ARBITRARY	-
7	GROUND PLATE	METARIC FILM	POLISH or HALF POLISH Sn PLATING
6	REINFORCED TAPE	ARBITRARY	-
5	INSULATION FILM	ARBITRARY	-
4	CONDUCTOR	COPPER ALLOY	CONTACT AREA: Au 0.05 μ m MIN. OVER Ni 0.5 μ m MIN.
NO.	DISCRIPTION	MATERIAL	FINISH , REMARKS

- NOTES
- 1. DIFFERENTIAL IMPEDAMCE : 100 Ω
 - 2. MANUFACTURE CASE 1 or CASE 2
 - 3. SELECT A MATERIAL WITH A SOFTENING TEMPERATURE OF 85°C OR HIGHER FOR THE PATTERN ADHESIVE PART OF FFC.

Rev.9

Recommended P/N		20720-0**E-02		
PART NO.	POS.	A	B	J
20720-010E-02	10P	6.30	4.50	9.30
20720-015E-02	15P	8.80	7.00	11.80
20720-020E-02	20P	11.30	9.50	14.30
20720-024E-02	24P	13.30	11.50	16.30
20720-030E-02	30P	16.30	14.50	19.30
20720-040E-02	40P	21.30	19.50	24.30



Rev.9

Connector Assembly

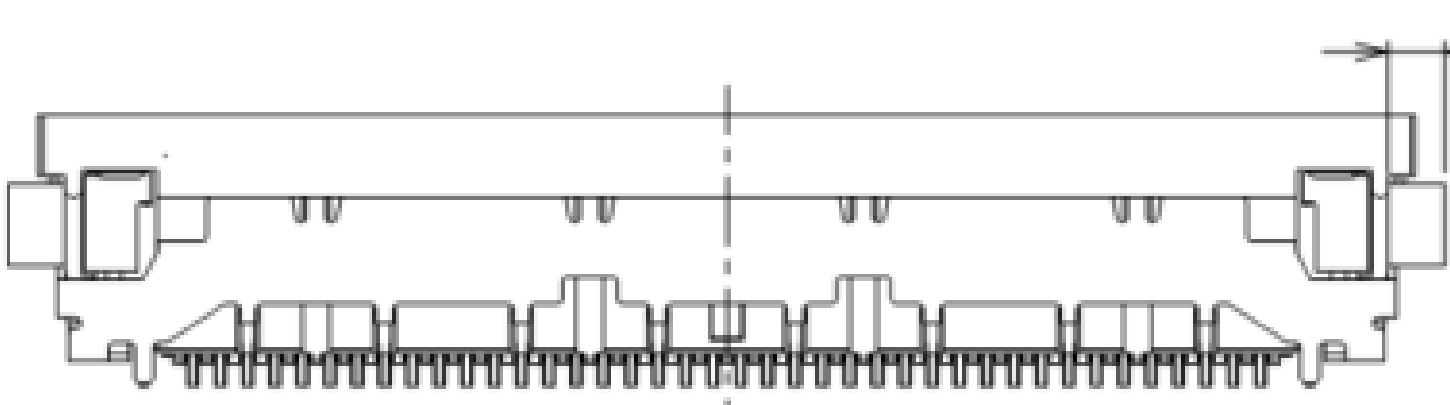
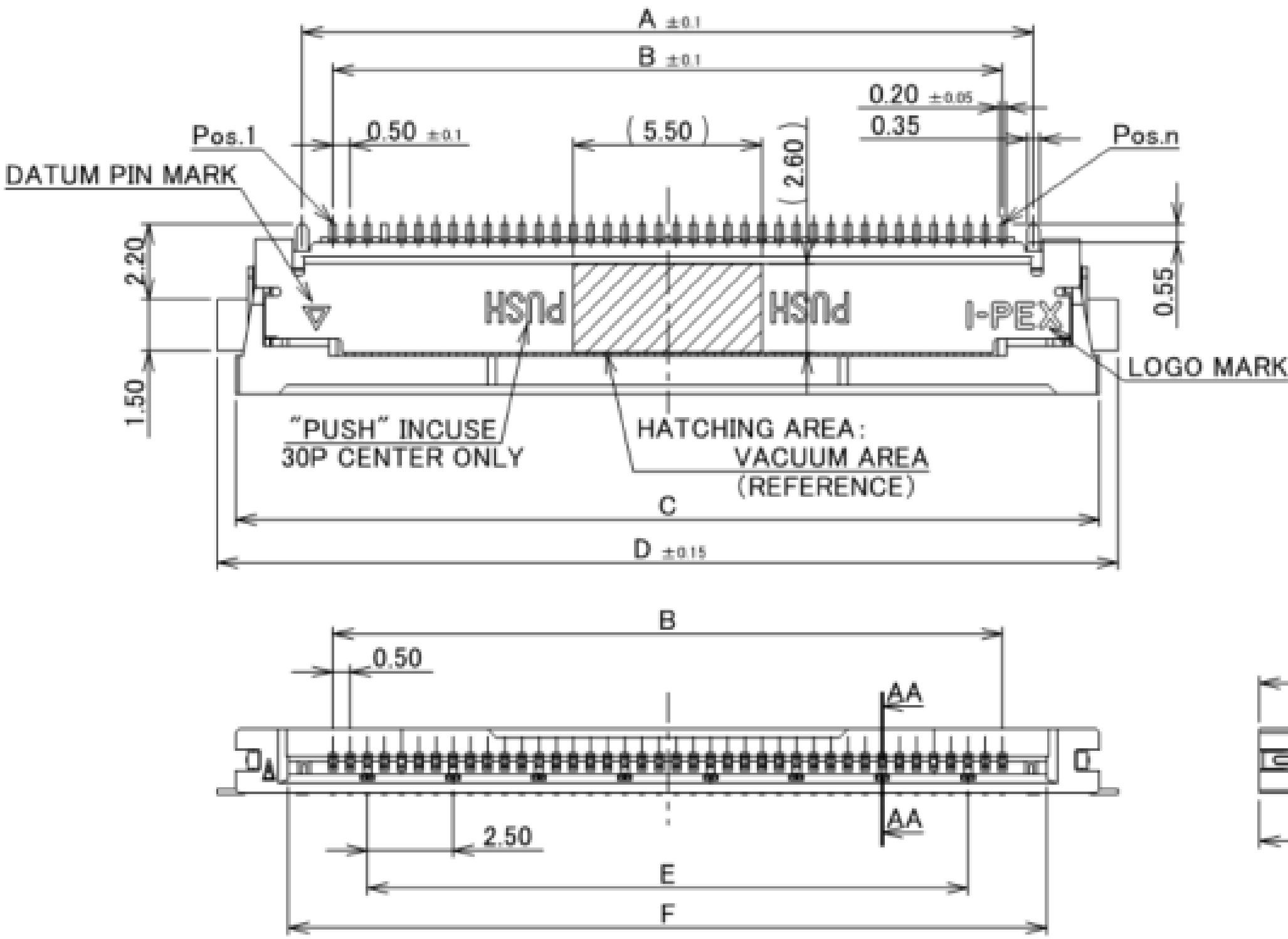
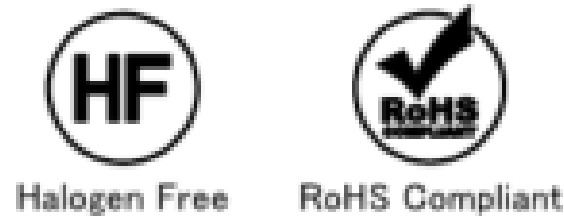
ITEMS	SPECIFICATION
RATING VOLTAGE	200V AC/DC (PER CONTACT PIN)
RATING AMPERAGE (FOR CONTACT)	0.3A AC/DC (PER CONTACT PIN) IN CASE OF APPLYING 0.5A PER CONTACT PIN, THE TOTAL CURRENT OF THE WHOLE CONNECTOR SHALL BE 15.0A OR LOWER.
OPERATING TEMPERATURE	233~378K(−40°C~+105°C)
OPERATING HUMIDITY	85% MAX.(NON-CONDENSING)
CONTACT RESISTANCE (FOR SIGNAL CONTACT)	INITIAL : 60mohm MAX. / AFTER TEST : $\triangle$ 40mohm MAX.
INSULATION RESISTANCE	INITIAL : 100Mohm MIN. / AFTER TEST : 100Mohm MIN.
DIELECTRIC WITHSTANDING VOLTAGE	AC250V 1min
DURABILITY	30 CYCLES
MATING FORCE (INITIAL / AFTER TEST)	10P : 6.0N MAX. 15P : 9.0N MAX. 20P : 12.0N MAX. 24P : 14.4N MAX. 30P : 18.0N MAX. 40P : 24.0N MAX.
UNMATING FORCE (INITIAL / AFTER TEST)	10P : 1.0N MIN. 15P : 1.5N MIN. 20P : 2.0N MIN. 24P : 2.4N MIN. 30P : 3.0N MIN. 40P : 4.0N MIN.
COPLANARITY	0.10 MAX.
PRODUCT SPECIFICATION	PRS-2224
TEST REPORT	TR-16039
PACKING STANDARD	300-997
INSTRUCTION MANUAL	HIM-12003
APPEARANCE CRITERIA No.	QLS-A***

Rev.9

Recommended P/N 20893-0**E-02

PART NO.	POS.	A	B	C	D	E	F
20893-030E-02	30P	16.30	14.50	20.17	21.25	12.50	17.10
20893-040E-02	40P	21.30	19.50	25.17	26.25	17.50	22.10
20893-050E-02	50P	26.30	24.50	30.17	31.25	22.50	27.10

P/N: 20893-0**E-02
Pos.



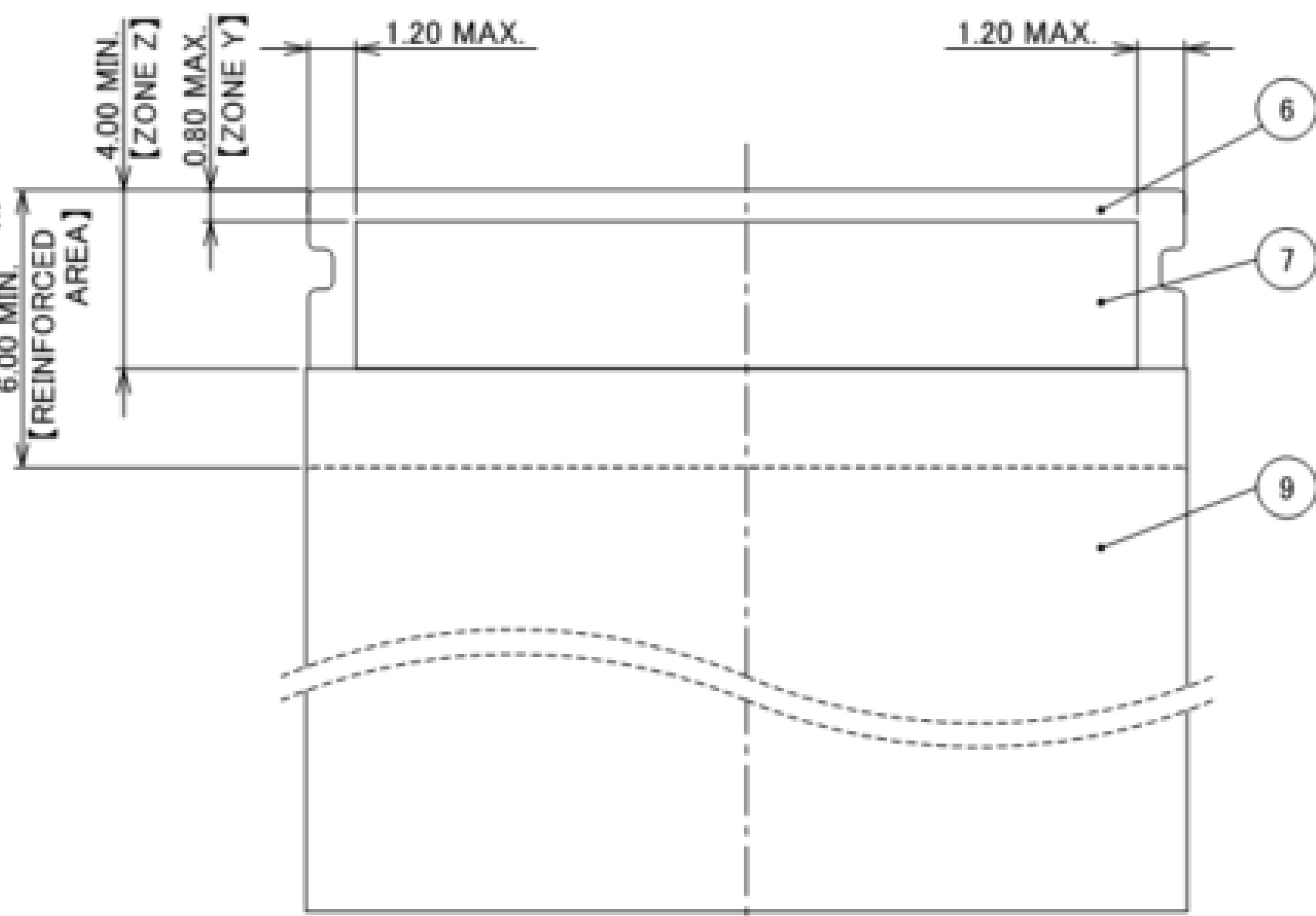
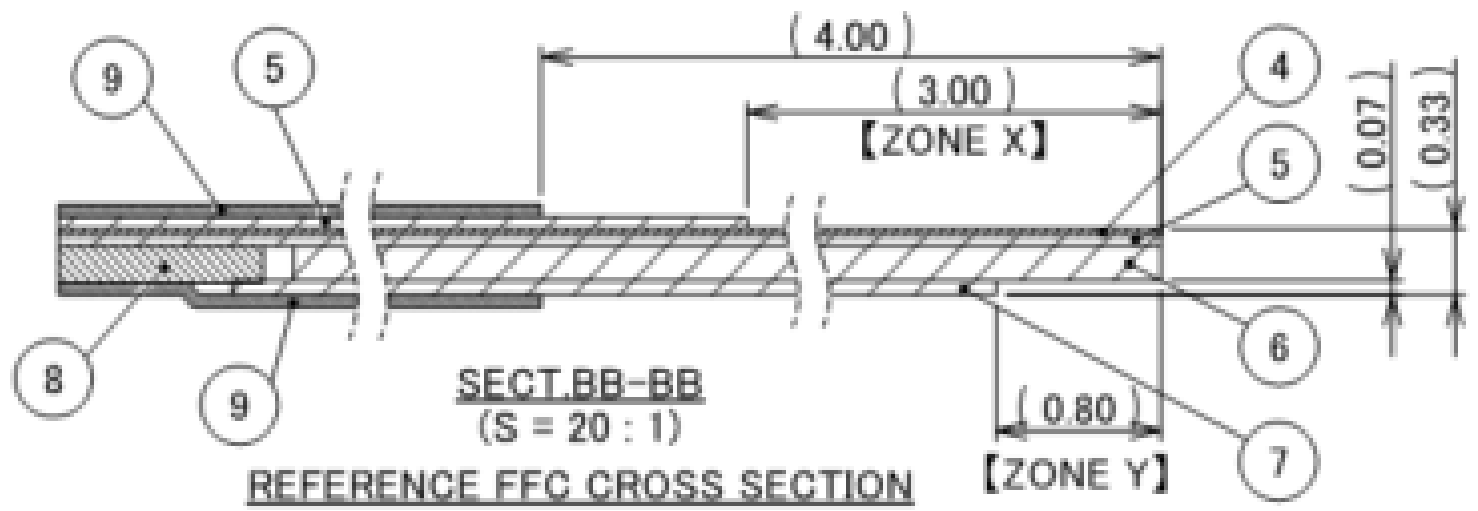
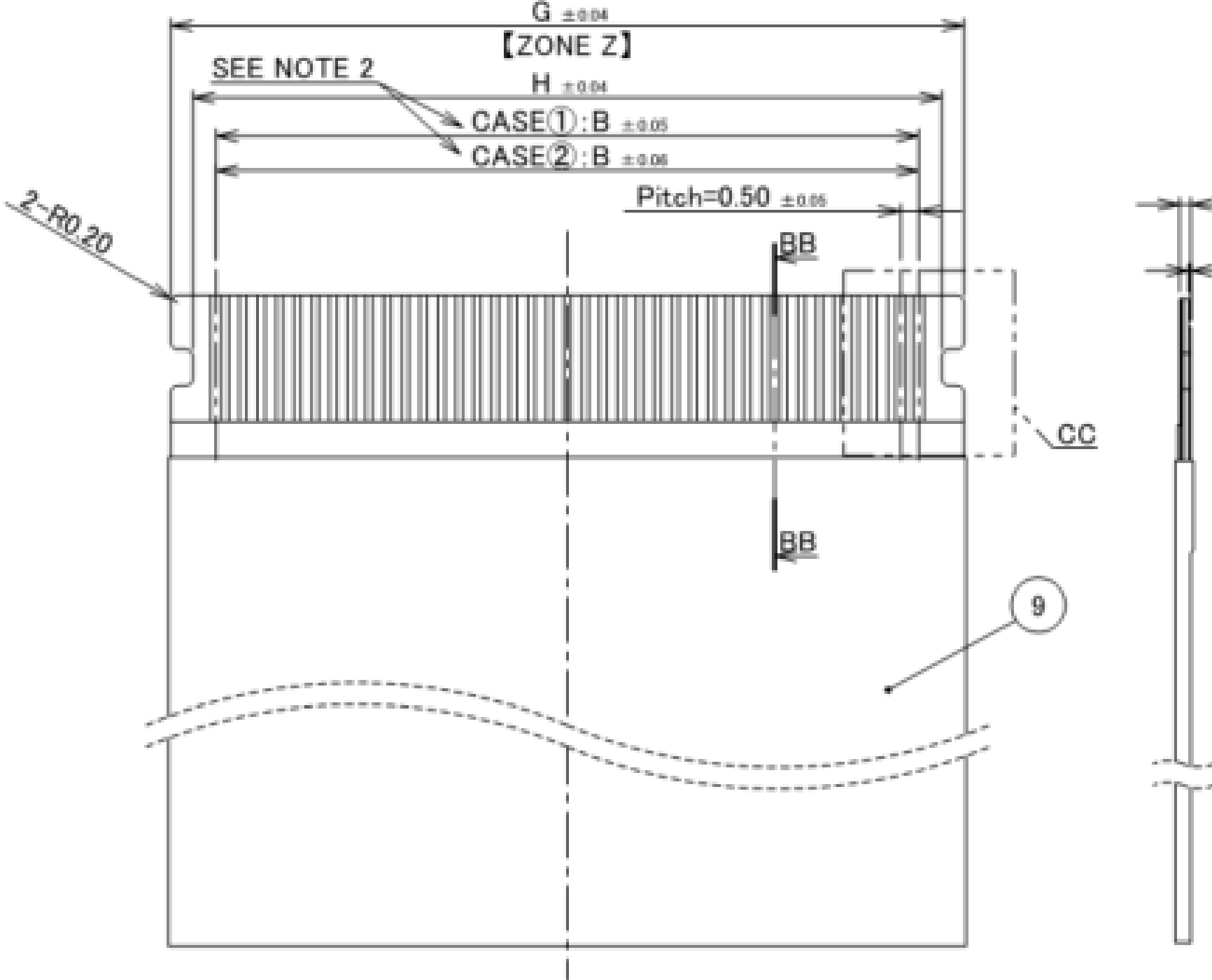
NO.	DISCRIPTION	MATERIAL	FINISH , REMARKS
3	SHELL	PHOSPHOR BRONZE	SOLDERING AREA: Sn 3.00 μ m MIN. OVER Ni 1.00 μ m MIN. OTHER AREA: Sn 1.00 μ m MIN. OVER Ni 1.00 μ m MIN.
2	CONTACT	CORSON ALLOY	CONTACT AREA: Au 0.03 μ m MIN. OVER Ni 1.00 μ m MIN. SOLDERING AREA: Au 0.03 μ m MIN. OVER Ni 1.00 μ m MIN.
1	HOUSING	LCP	UL94V-0, BLACK

Rev.5

Connector Assembly

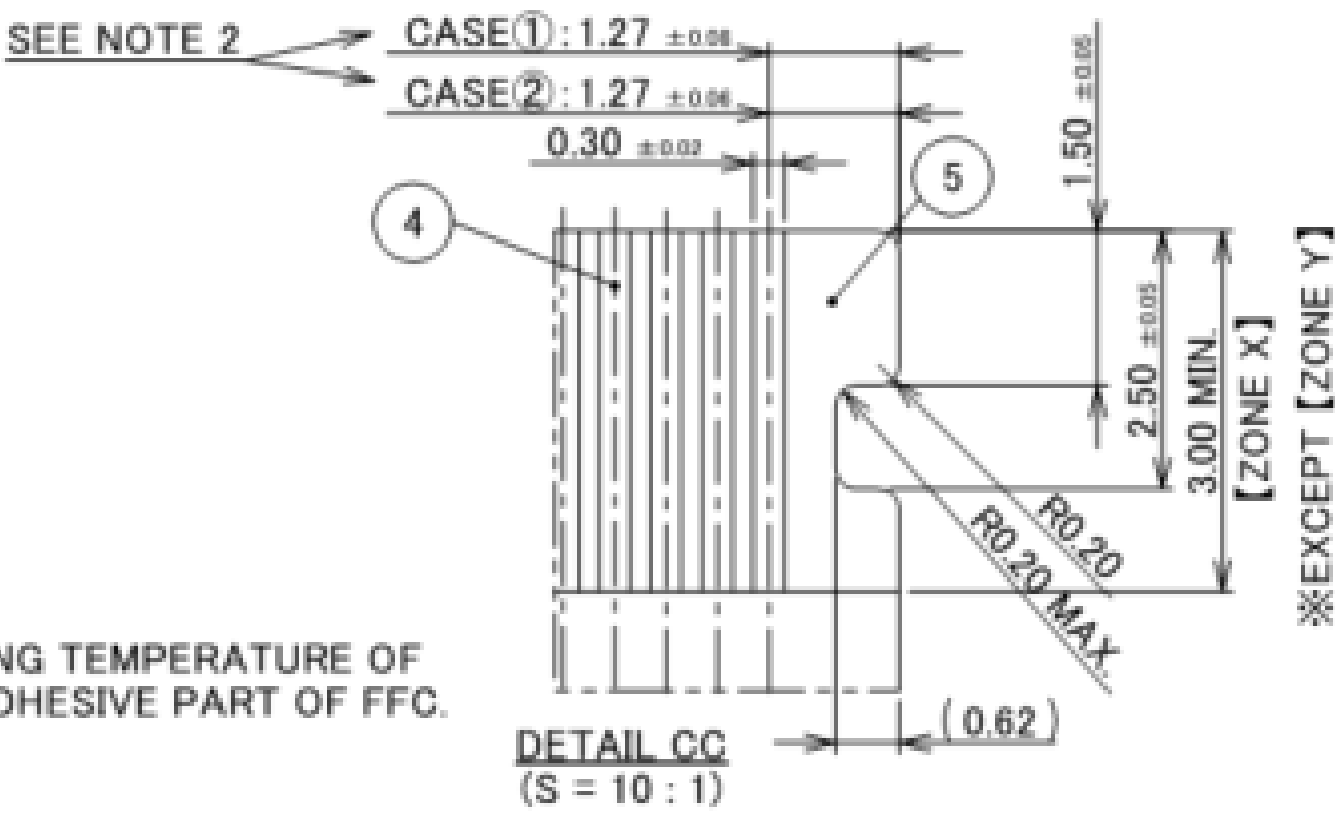
Recommended P/N		20893-0**E-02			
FOR	POS.	B	G	H	
20893-030E-02	30P	14.50	17.04	15.80	
20893-040E-02	40P	19.50	22.04	20.80	
20893-050E-02	50P	24.50	27.04	25.80	

RECOMMENDED FFC DIMENSION

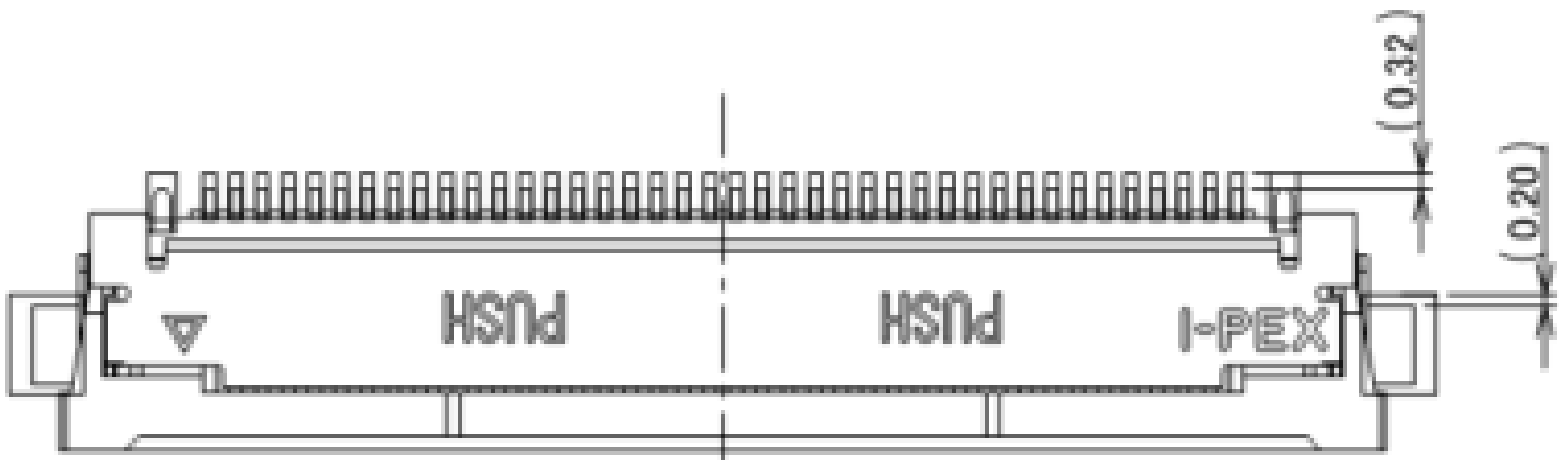
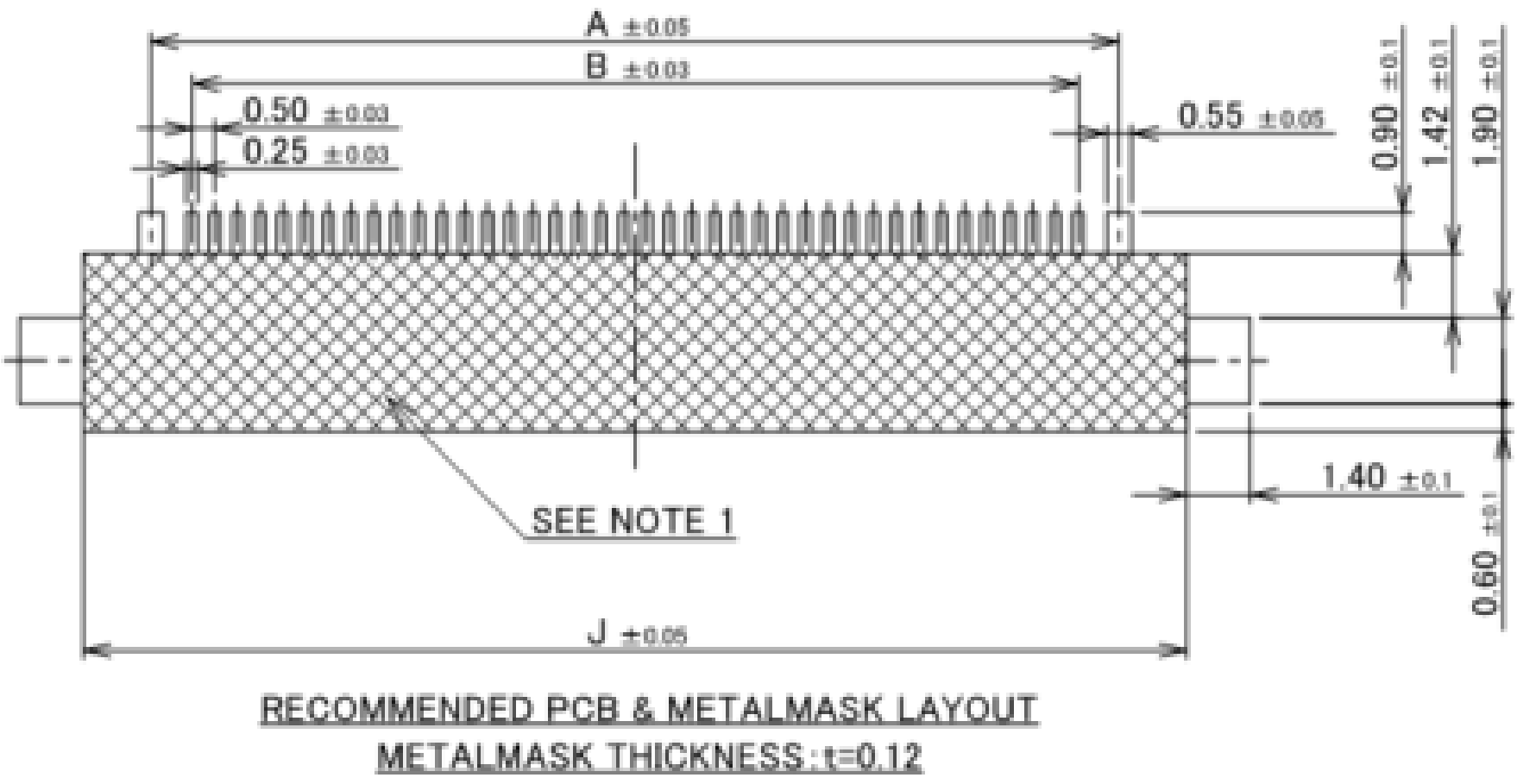


9	SHIELD TAPE	METALIC FILM	-
8	INTERLAYER	ARBITRARY	-
7	GROUND PLATE	METARIC FILM	POLISH or HALF POLISH Sn PLATING
6	REINFORCED TAPE	ARBITRARY	-
5	INSULATION FILM	ARBITRARY	-
4	CONDUCTOR	COPPER ALLOY	CONTACT AREA: Au 0.05 μ m MIN. OVER Ni 0.5 μ m MIN.
NO.	DISCRIPTION	MATERIAL	FINISH , REMARKS

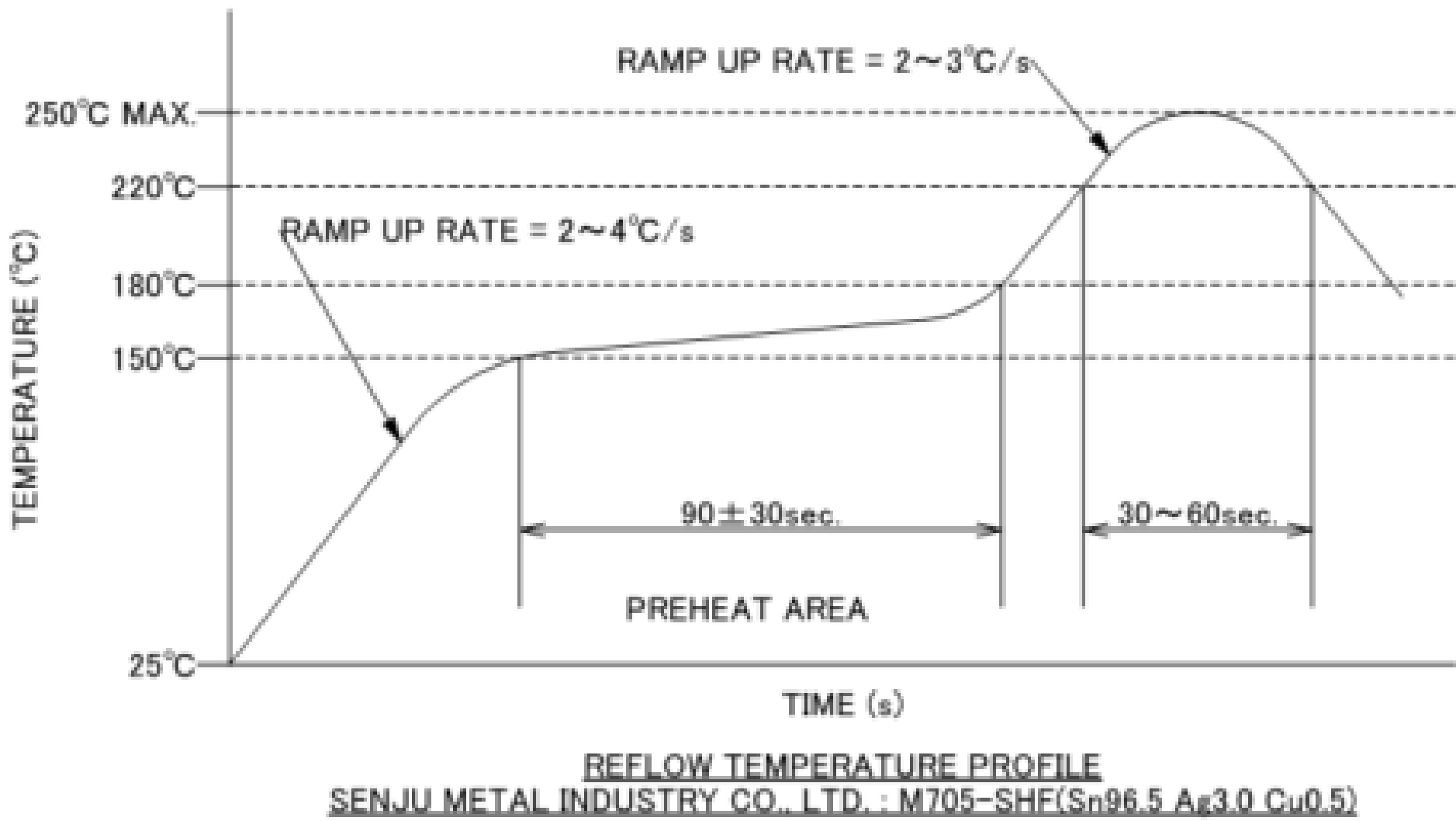
- NOTES
- 1.DIFFERENTIAL IMPEDAMCE : 100Ω
 - 2.MANUFACTURE CASE① or CASE②
 - 3. SELECT A MATERIAL WITH A SOFTENING TEMPERATURE OF 85℃ OR HIGHER FOR THE PATTERN ADHESIVE PART OF FFC.



Recommended P/N		20893-0**E-02			
PART NO.	POS.	A	B	J	
20893-030E-02	30P	16.30	14.50	19.30	
20893-040E-02	40P	21.30	19.50	24.30	
20893-050E-02	50P	26.30	24.50	29.30	



CONNECTOR ON RECOMMENDED FOOTPRINT PATTERN



NOTE

1. SOLDER RESIST MUST BE APPLIED TO THIS AREA.

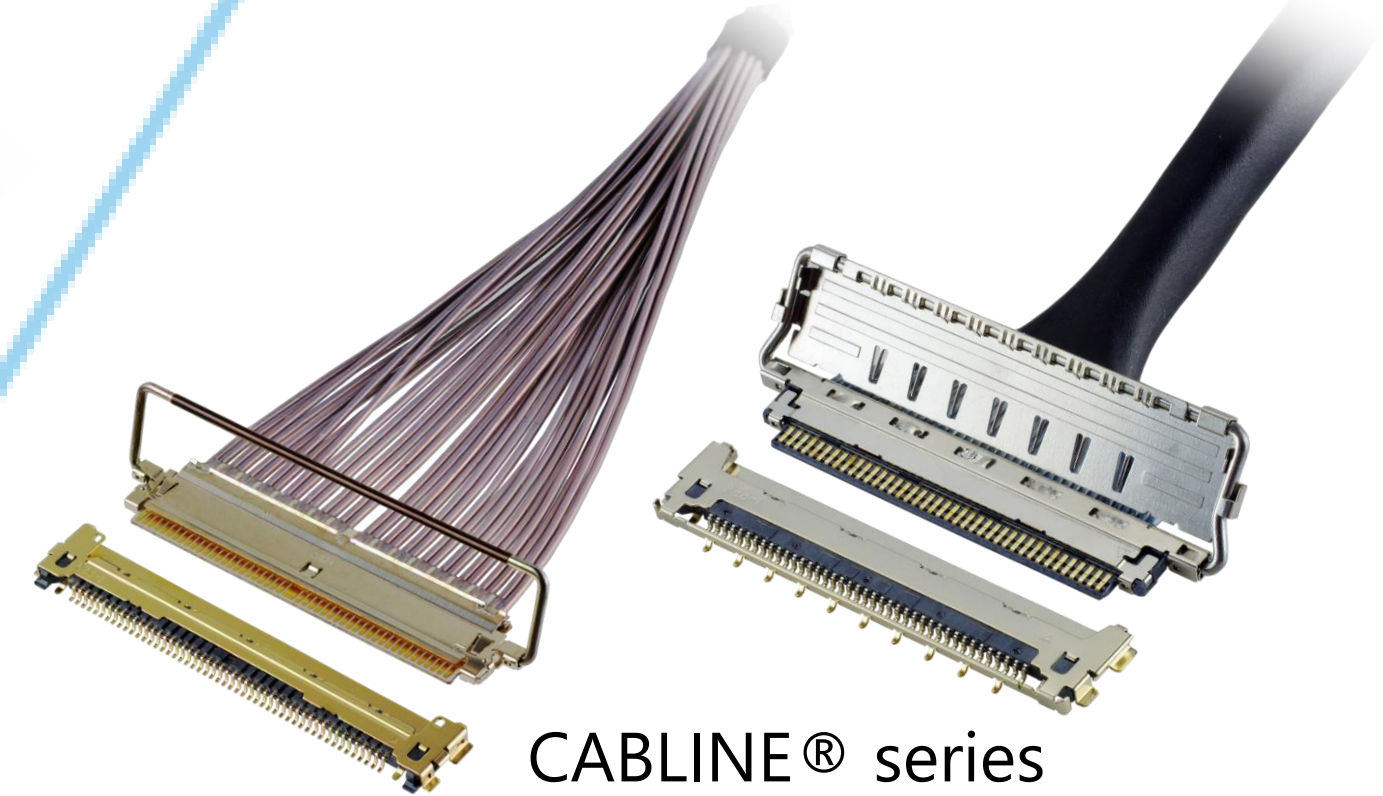
Connector Assembly

ITEMS	SPECIFICATION
RATING VOLTAGE	200V AC/DC (PER CONTACT PIN)
RATING AMPERAGE (FOR CONTACT)	0.3A AC/DC (PER CONTACT PIN) IN CASE OF APPLYING 0.5A PER CONTACT PIN, THE TOTAL CURRENT OF THE WHOLE CONNECTOR SHALL BE 15.0A OR LOWER.
OPERATING TEMPERATURE	233~378K(−40°C~+105°C)
OPERATING HUMIDITY	85% MAX.(NON-CONDENSING)
CONTACT RESISTANCE (FOR SIGNAL CONTACT)	INITIAL : 60mohm MAX. / AFTER TEST : ≦40mohm MAX.
INSULATION RESISTANCE	INITIAL : 100Mohm MIN. / AFTER TEST : 100Mohm MIN.
DIELECTRIC WITHSTANDING VOLTAGE	AC250V 1min
DURABILITY	30 CYCLES
MATING FORCE (INITIAL / AFTER TEST)	30P : 18.0N MAX. 40P : 24.0N MAX. 50P : 30.0N MAX.
UNMATING FORCE (INITIAL / AFTER TEST)	30P : 3.0N MIN. 40P : 4.0N MIN. 50P : 5.0N MIN.
COPLANARITY	0.10 MAX.
PRODUCT SPECIFICATION	PRS-2527
TEST REPORT	TR-18083
PACKING STANDARD	300-997
INSTRUCTION MANUAL	HIM-12003
APPEARANCE CRITERIA No.	QLS-A***

Custom Connectors Available

RF Connectors

MHF® series



CABLINA® series

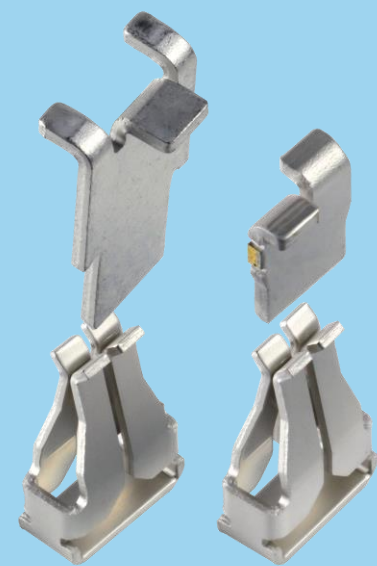


Micro-Coaxial/Twinaxial Connectors



Wire-to-Board Connectors/ Terminals

AP series



ISH® series



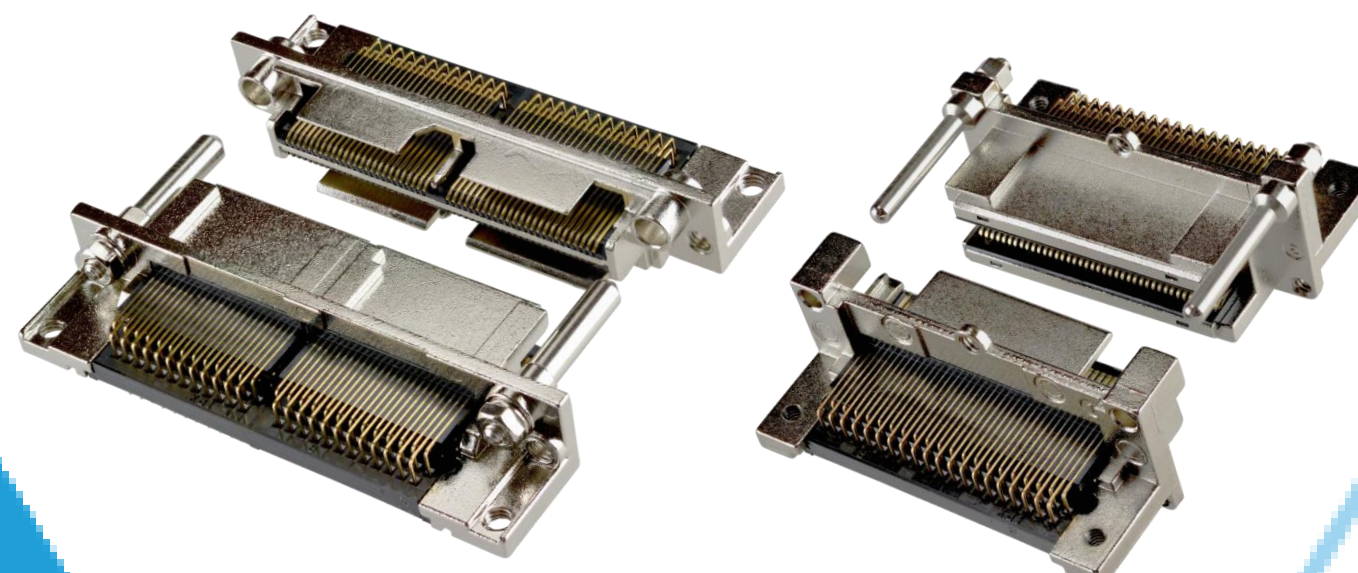
NOVASTACK® series



Board-to-Board Connectors



I/O Connectors



MINIDOCK™ series

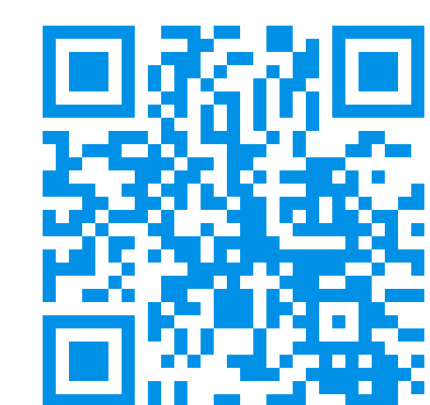
MINIFLEX® series EVAFLEX® series



FPC/FFC Connectors



Inquiry



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or more detailed information.

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