

CABLINE® -UM

全屏蔽设计和多点接地设计，机械锁扣，高速数据传输(40 Gbps/lane PAM3), 0.4 mm间距, 90度出线垂直插拔款的极细同轴线连接器

Product Specifications:

Mating type		Right Angle Vertical
Board Pitch		0.4 mm
Wiping Length		0.65 mm
Mated Size	Height	With Lock Cover: 2.35 mm max.
		Without Lock Cover: 2.15 mm max.
		With Pull Tape Holder: 2.35 mm max.
	Width	5.0 + (0.4 x pin count) mm
	Depth	5.0 mm with lock cover
Pin Counts	Range	Up to 70
	Available	30, 40, 50, 60, 70

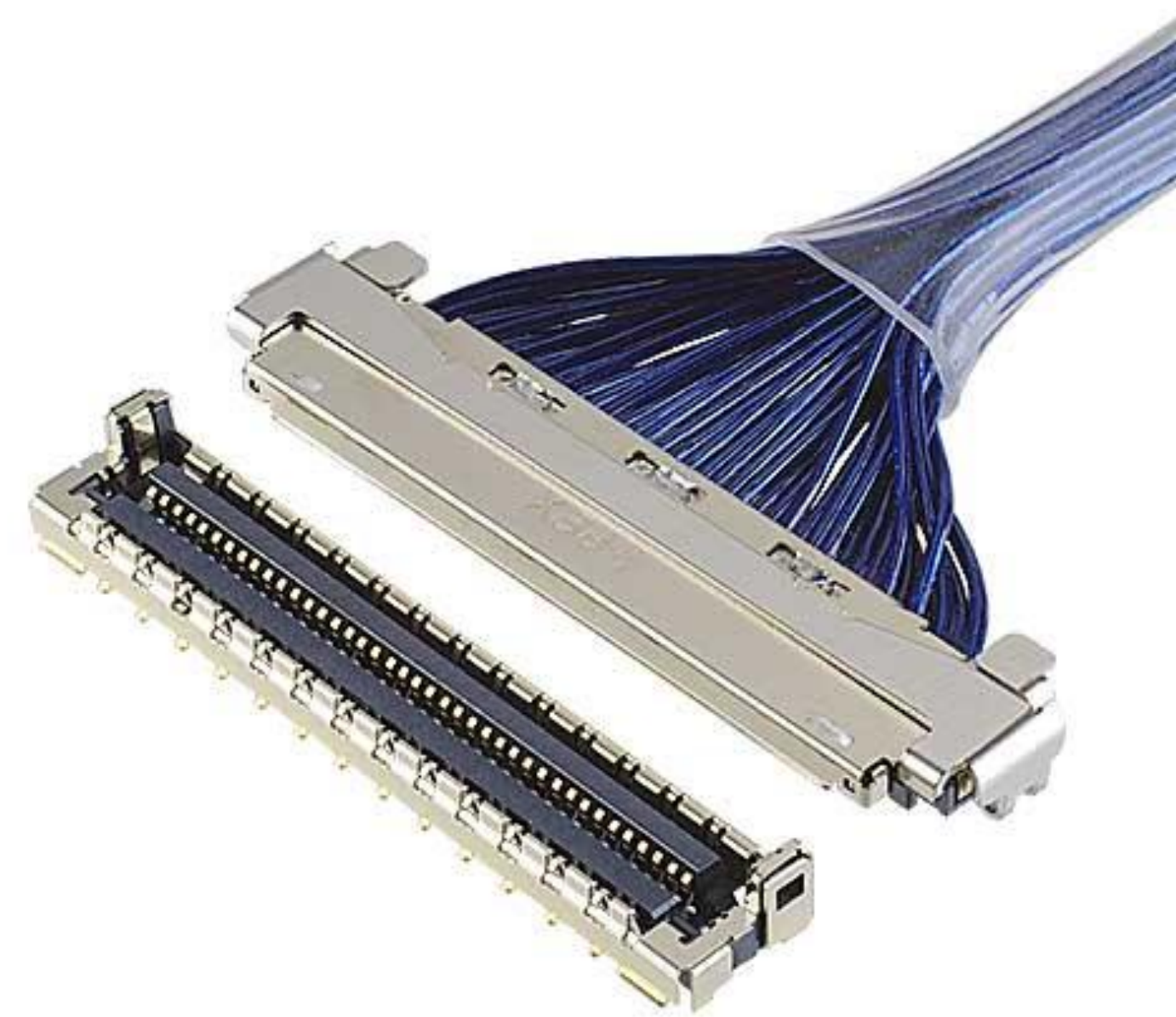
*如您需要了解未列出或不在范围内的Pin数，请咨询我们。

Applicable Cable Size:

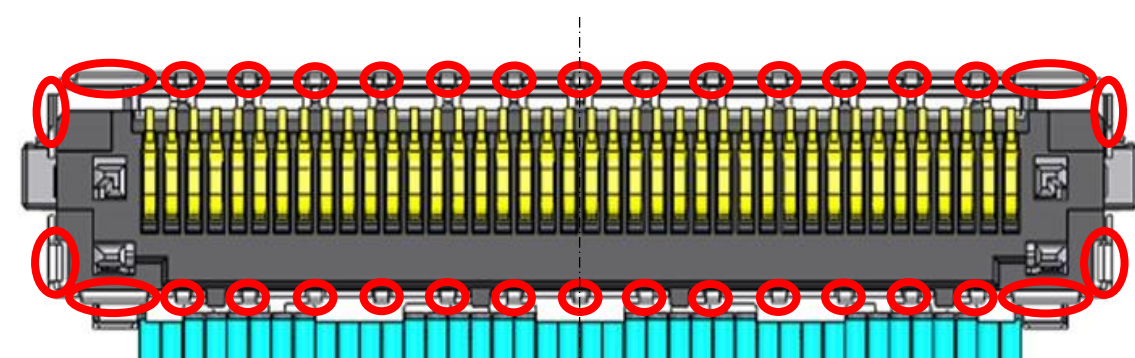
Maximum O.D.	0.4 mm
Micro-Coaxial for Signal	45 ohm: AWG 38 or smaller
	50 ohm: AWG 40 or smaller
Twinaxial	AWG 40, 42
Discrete	AWG 34 or smaller

Applicable Standards (Reference Only):

USB4 Gen4 (40 Gbps/ Lane PAM3),
DisplayPort UHBR20 (20 Gbps/ Lane)



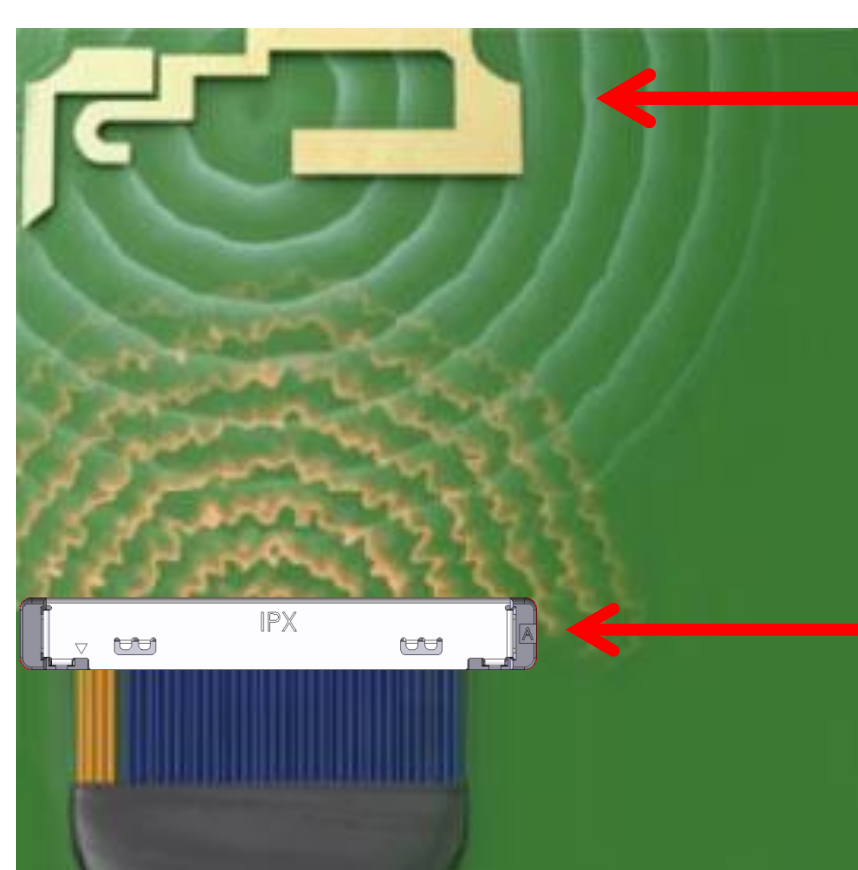
► ZenShield® 的全屏蔽设计和多点接地结构，EMC 解决方案的理想选择



底部视图

○ Ground SMT points

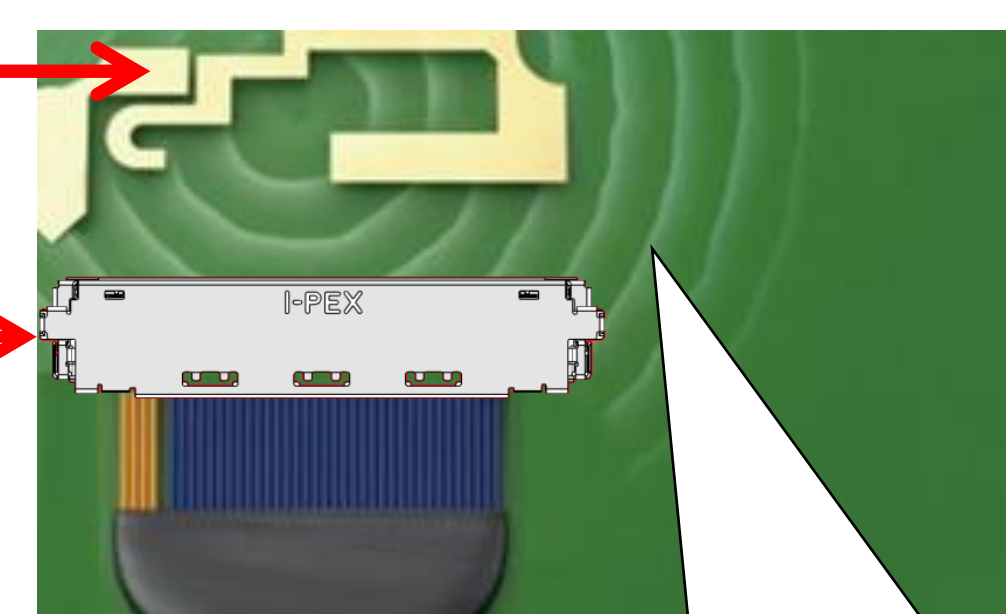
普通型连接器



Wi-Fi 天线

高速数据传输

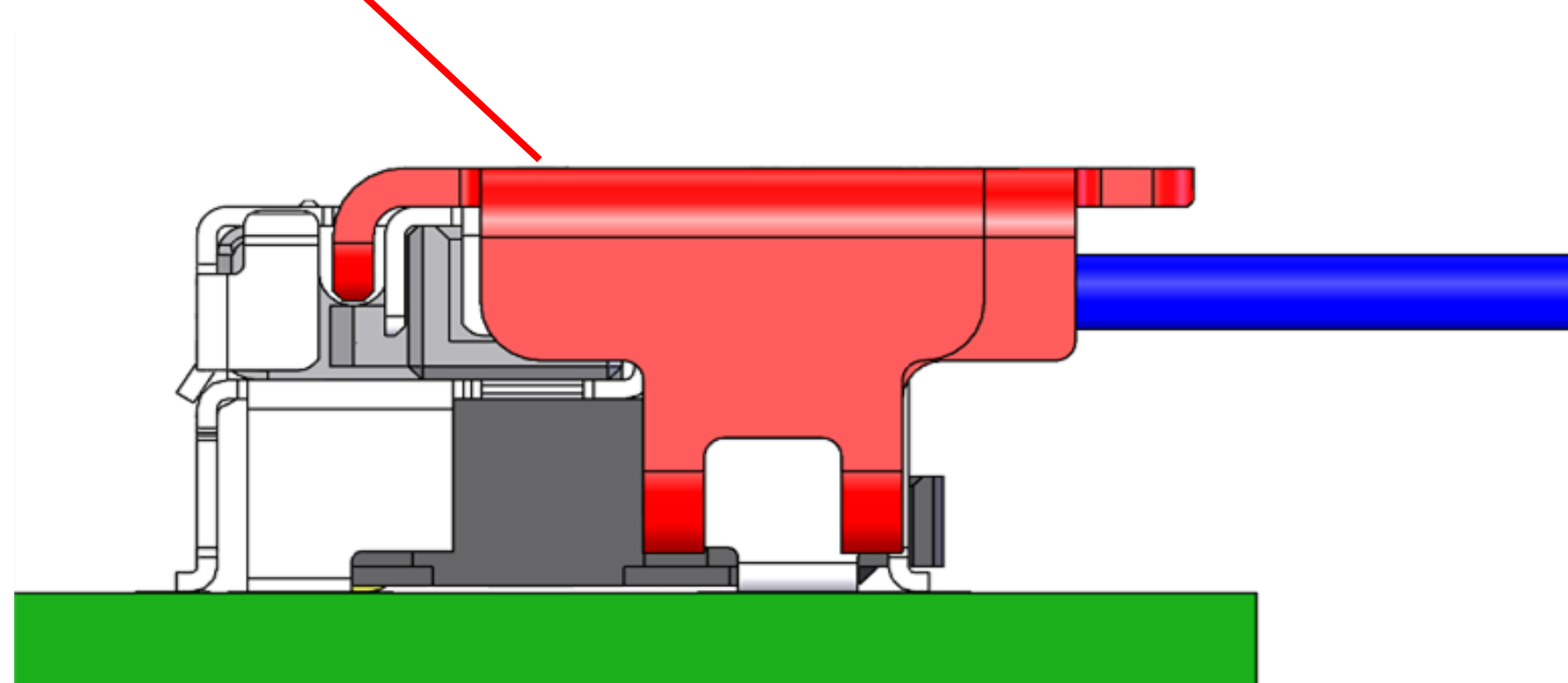
ZenShield® 全屏蔽式连接器



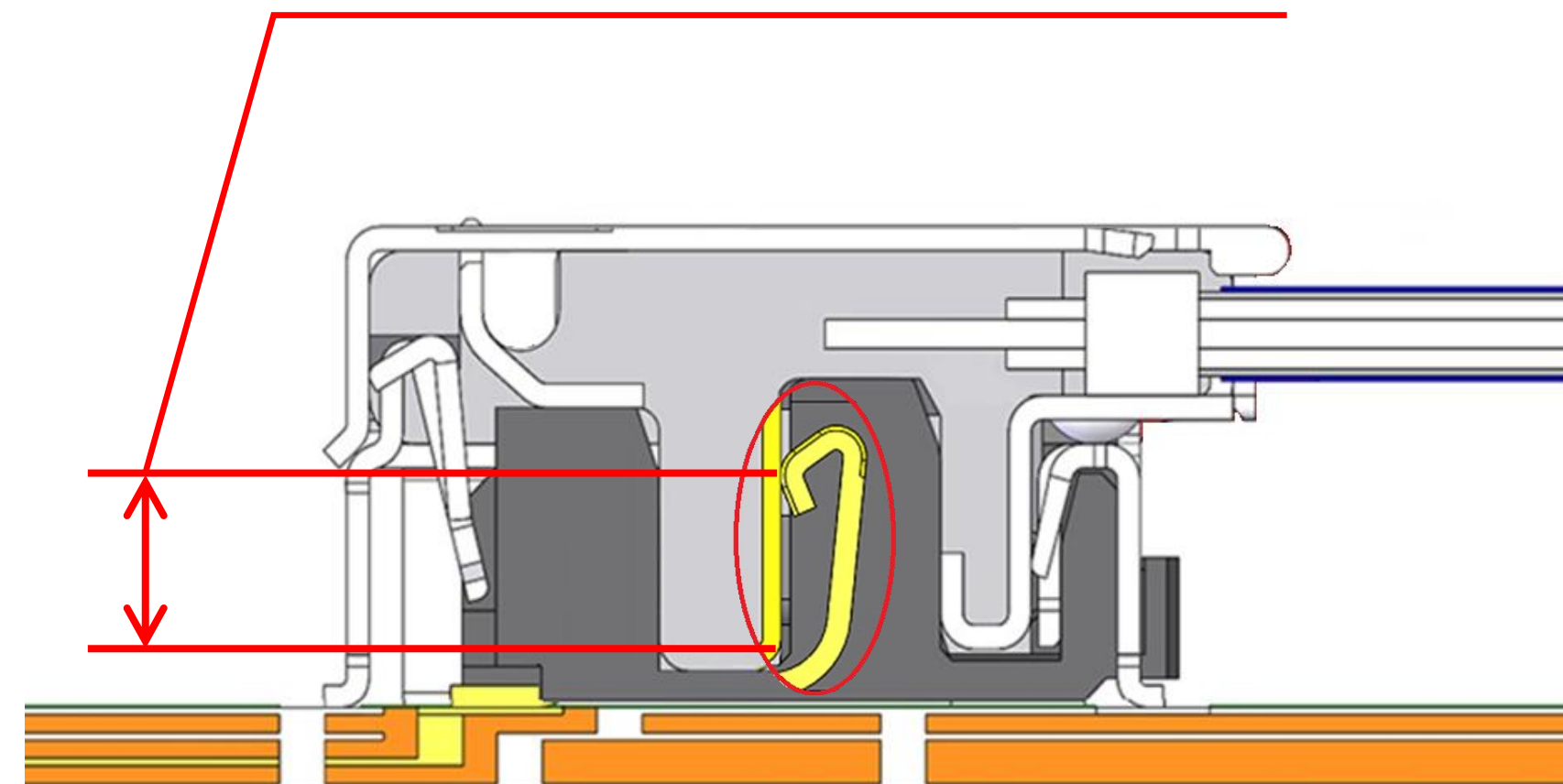
连接器可以放置于更靠近天线的位置

► 拥有锁盖以及0.65 毫米以上的有效嵌合长度，提供超高接触可靠性

搭配金属铁盖—增强连接器保持力



有效嵌合长度: 0.65mm min.



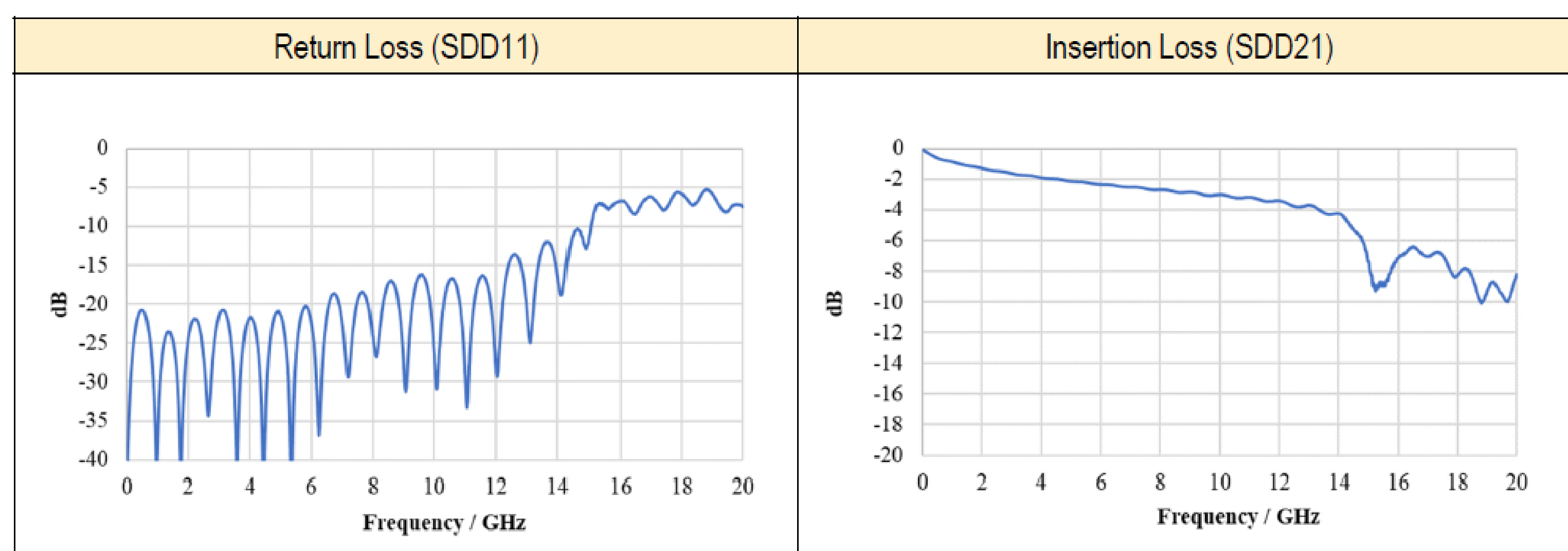
► 高速率传输, 40 Gbps/lane PAM3应用的理想之选

Measurement results

Connector: CABLINE-UM 40 pin

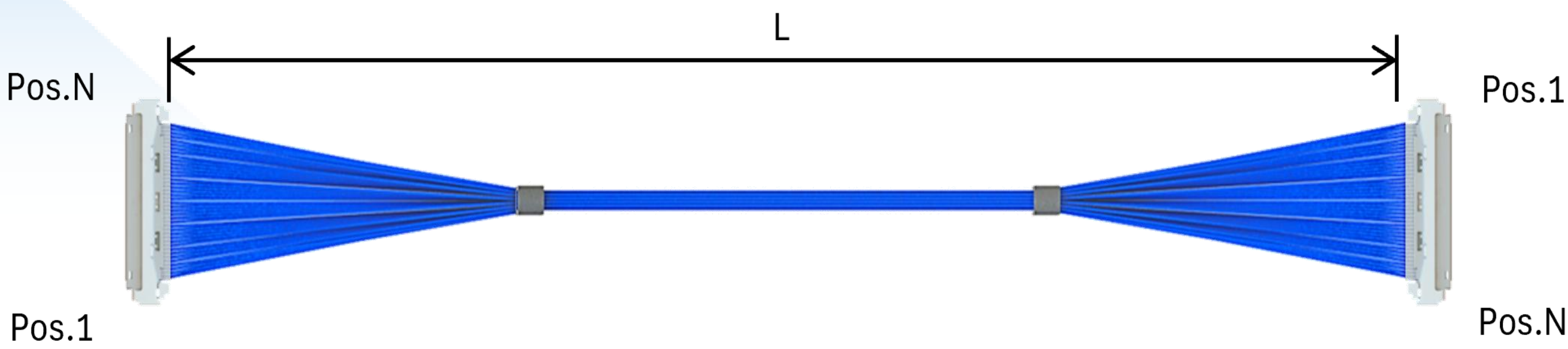
Cable: Micro-coaxial cable
AWG 40, 45 ohm, Length: 100 mm

Pin Assignment: GSSGSSG

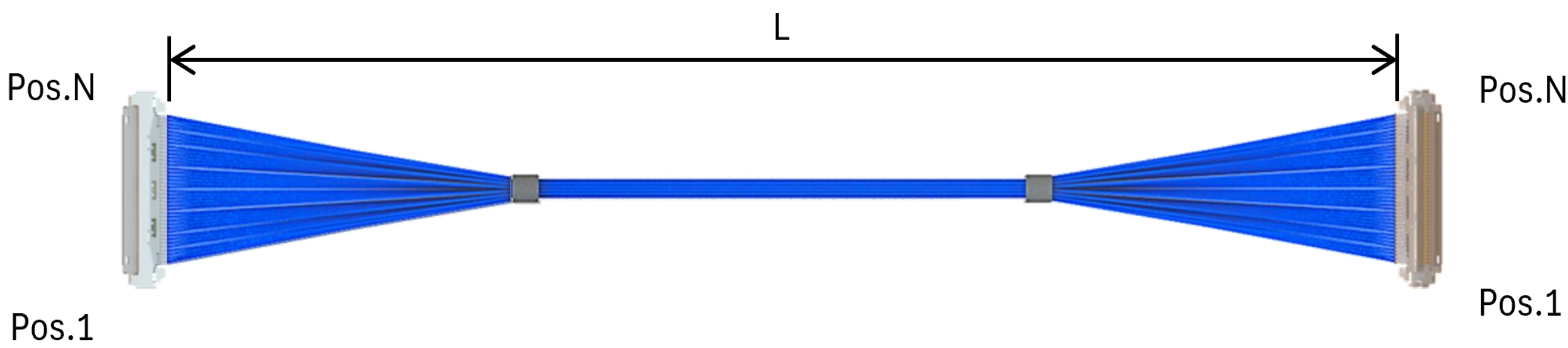


CABLINE® -UM standard harness

- ◆ Please click the part number to get its 2D drawing.
- ◆ Please be advised that if it becomes necessary to change the harness specifications, the part number will also need to be updated. The following part number is valid only when used with the harness specifications shown below.
- ◆ Please contact us via [Inquiry form](#) for other harness specifications.



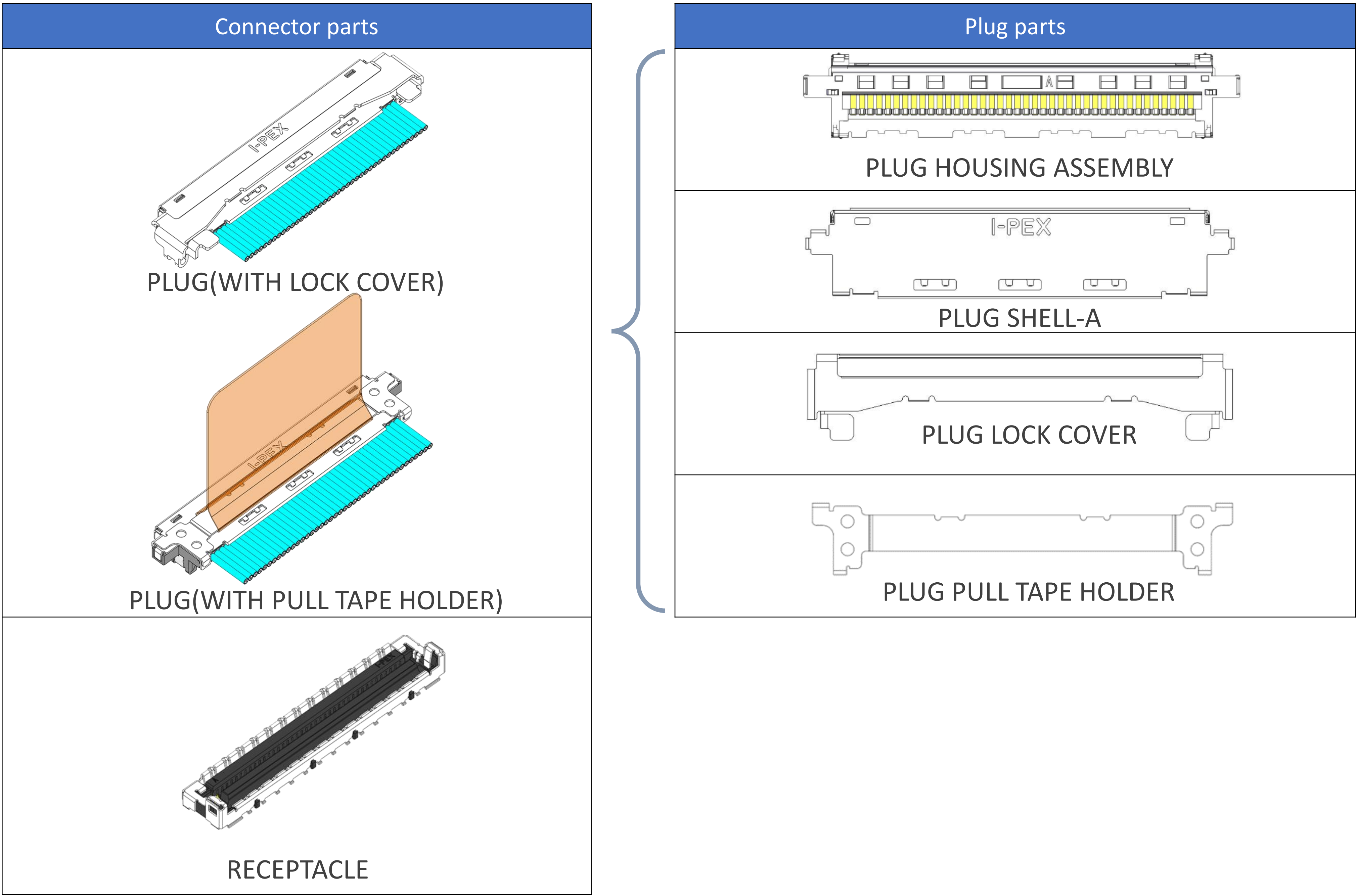
Part Number Description	Part Number (Link to Drawing)	Sample available
CABLINE-UM harness 30pin micro-coaxial 40AWG L=100mm 1-N	82187-100B-02-D	Buy from Digikey
CABLINE-UM harness 30pin micro-coaxial 40AWG L=200mm 1-N	81465-100B-02-D	Buy from Digikey
CABLINE-UM harness 30pin micro-coaxial 40AWG L=300mm 1-N	82286-100B-02-D	Buy from Digikey
CABLINE-UM harness 40pin micro-coaxial 40AWG L=100mm 1-N	82451-100B-02-D	Buy from Digikey
CABLINE-UM harness 40pin micro-coaxial 40AWG L=200mm 1-N	81466-100B-02-D	Buy from Digikey
CABLINE-UM harness 40pin micro-coaxial 40AWG L=300mm 1-N	82452-100B-02-D	Buy from Digikey
CABLINE-UM harness 50pin micro-coaxial 40AWG L=200mm 1-N	82285-100B-02-D	Buy from Digikey
CABLINE-UM harness 60pin micro-coaxial 40AWG L=200mm 1-N	82147-100B-02-D	Buy from Digikey



Part Number Description	Part Number (Link to Drawing)	Sample available
CABLINE-UM harness 30pin micro-coaxial 40AWG L=100mm 1-1	82674-100B-01-D	Contact us
CABLINE-UM harness 30pin micro-coaxial 40AWG L=200mm 1-1	82675-100B-01-D	Contact us
CABLINE-UM harness 30pin micro-coaxial 40AWG L=300mm 1-1	82676-100B-01-D	Contact us
CABLINE-UM harness 40pin micro-coaxial 40AWG L=100mm 1-1	82677-100B-01-D	Contact us
CABLINE-UM harness 40pin micro-coaxial 40AWG L=200mm 1-1	82678-100B-01-D	Contact us
CABLINE-UM harness 40pin micro-coaxial 40AWG L=300mm 1-1	82679-100B-01-D	Contact us

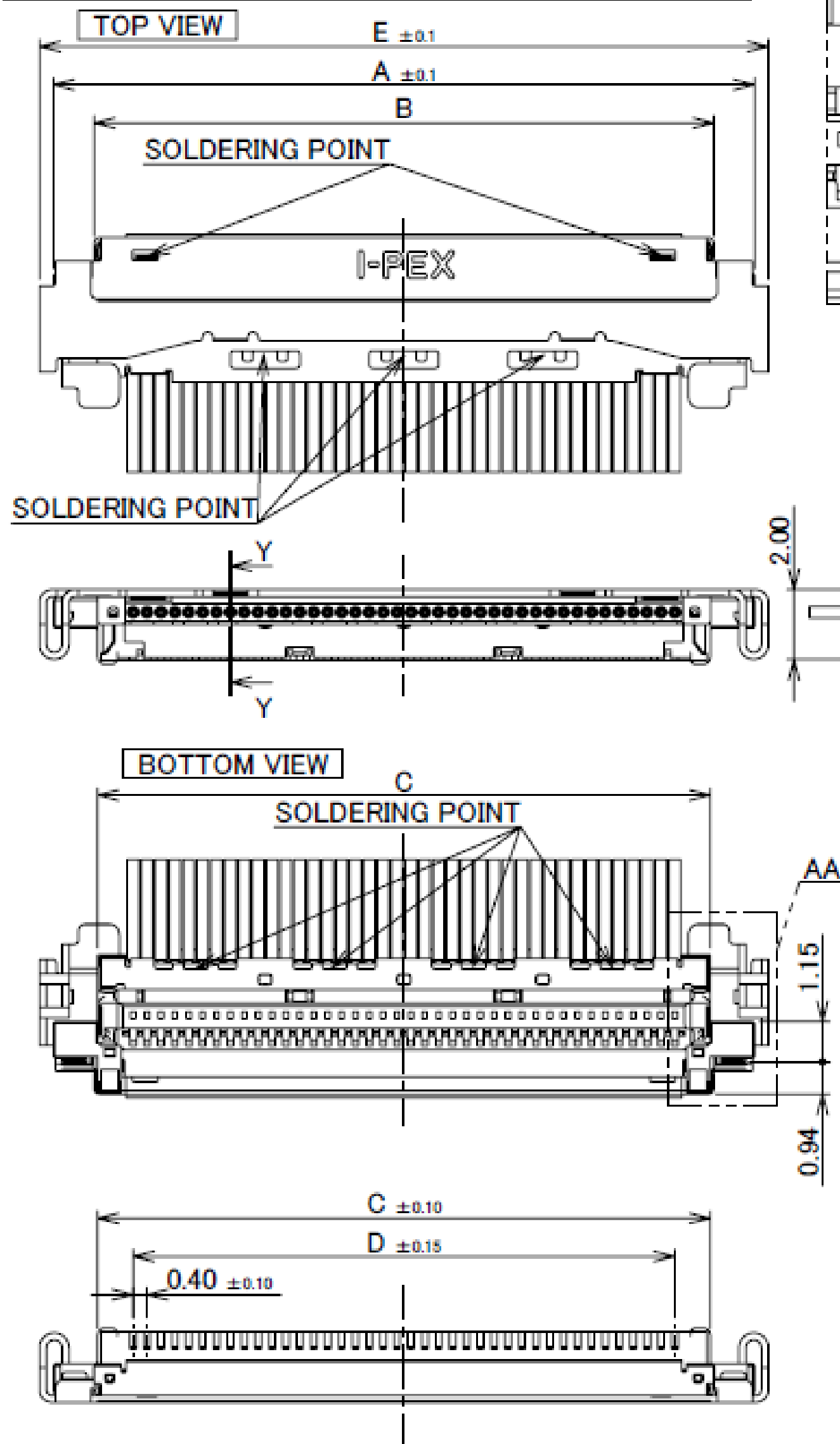
Component Parts Details

Component Parts

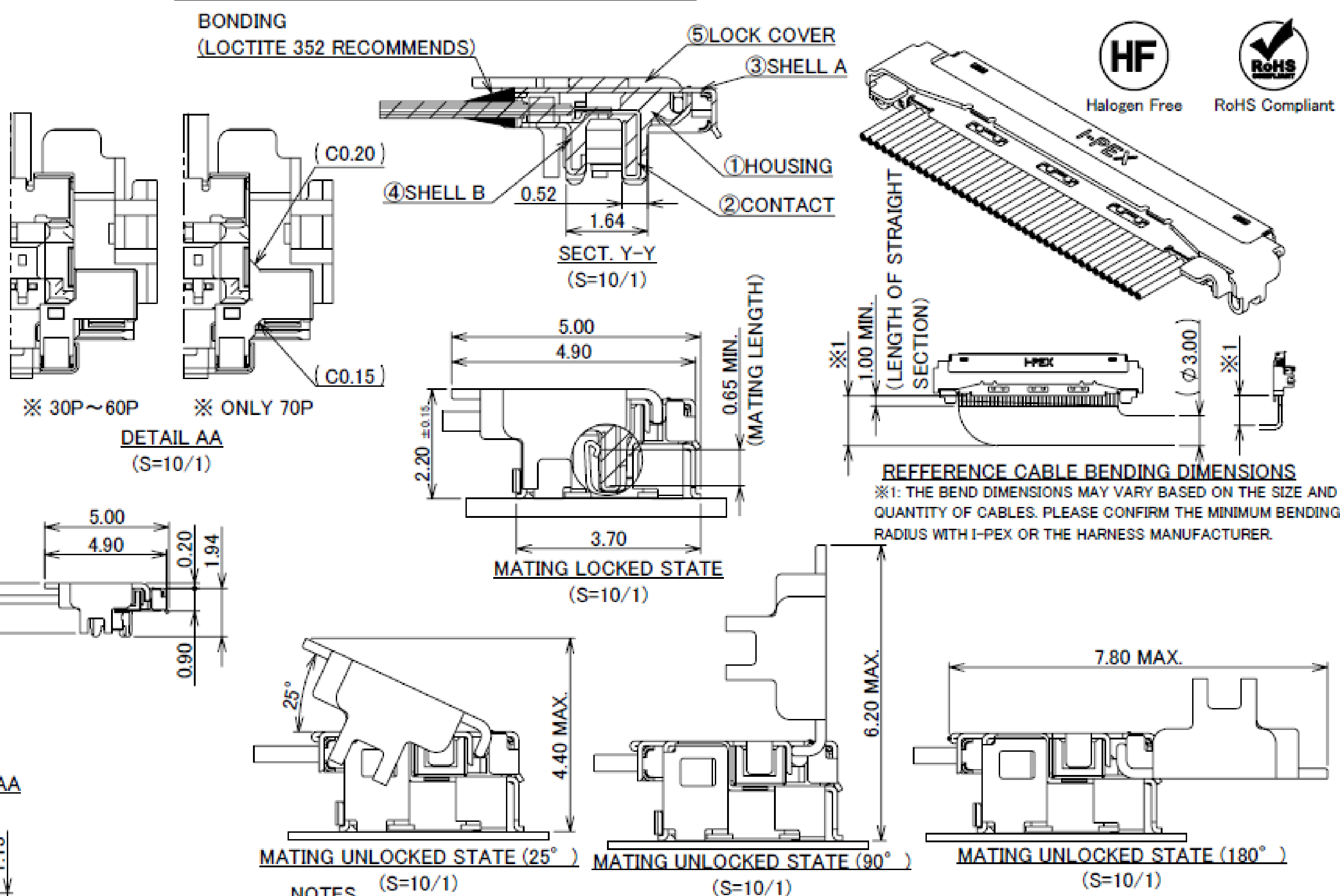


Plug for Cable Assembly

Recommended P/N		20877-0**T-01				
PART NO.	Pos.	A	B	C	D	E
20877-030T-01	30	16.20	13.85	13.65	11.60	17.00
20877-040T-01	40	20.20	17.85	17.65	15.60	21.00
20877-050T-01	50	24.20	21.85	21.65	19.60	25.00
20877-060T-01	60	28.20	25.85	25.65	23.60	29.00
20877-070T-01	70	32.20	29.85	29.65	27.60	33.00



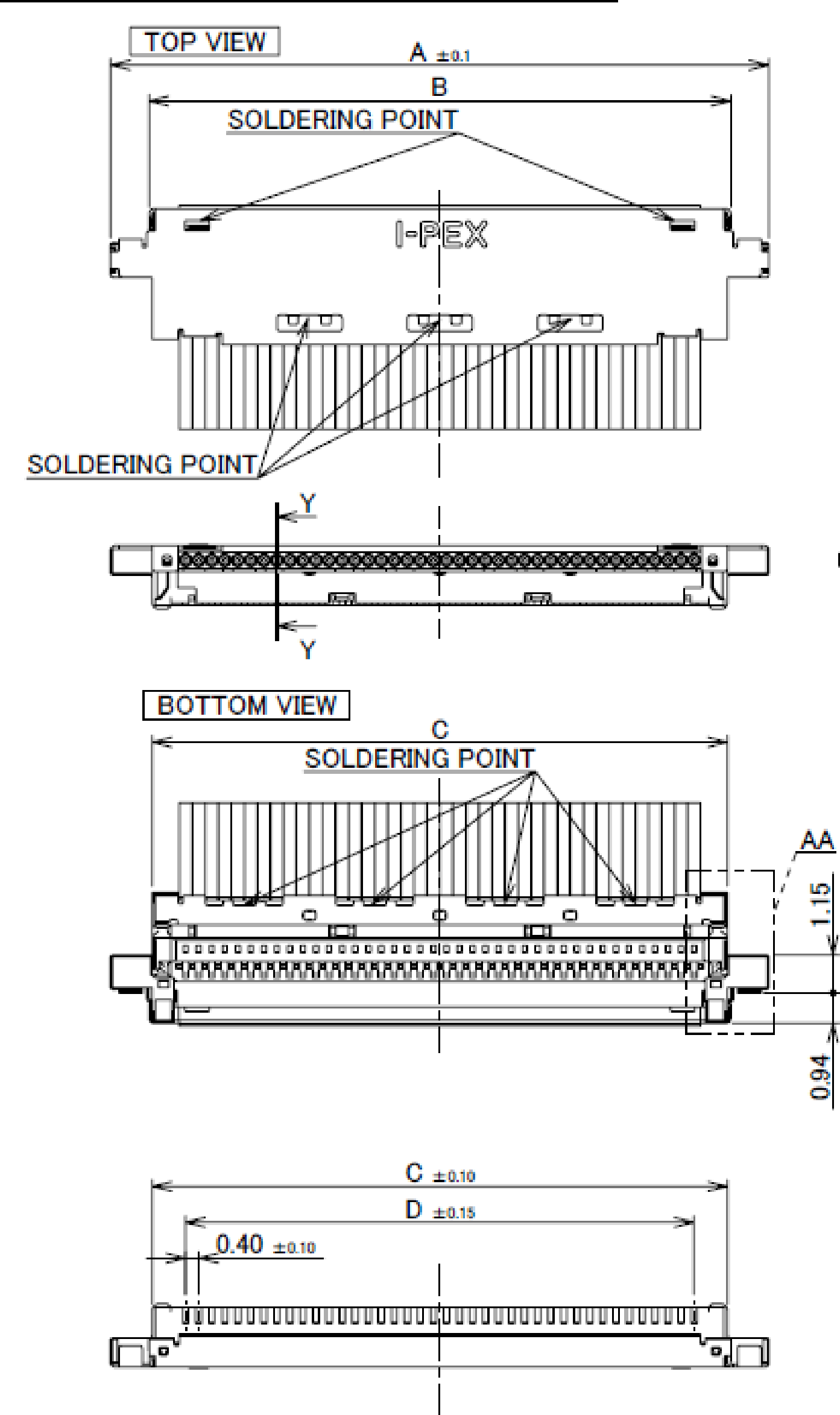
With LOCK COVER



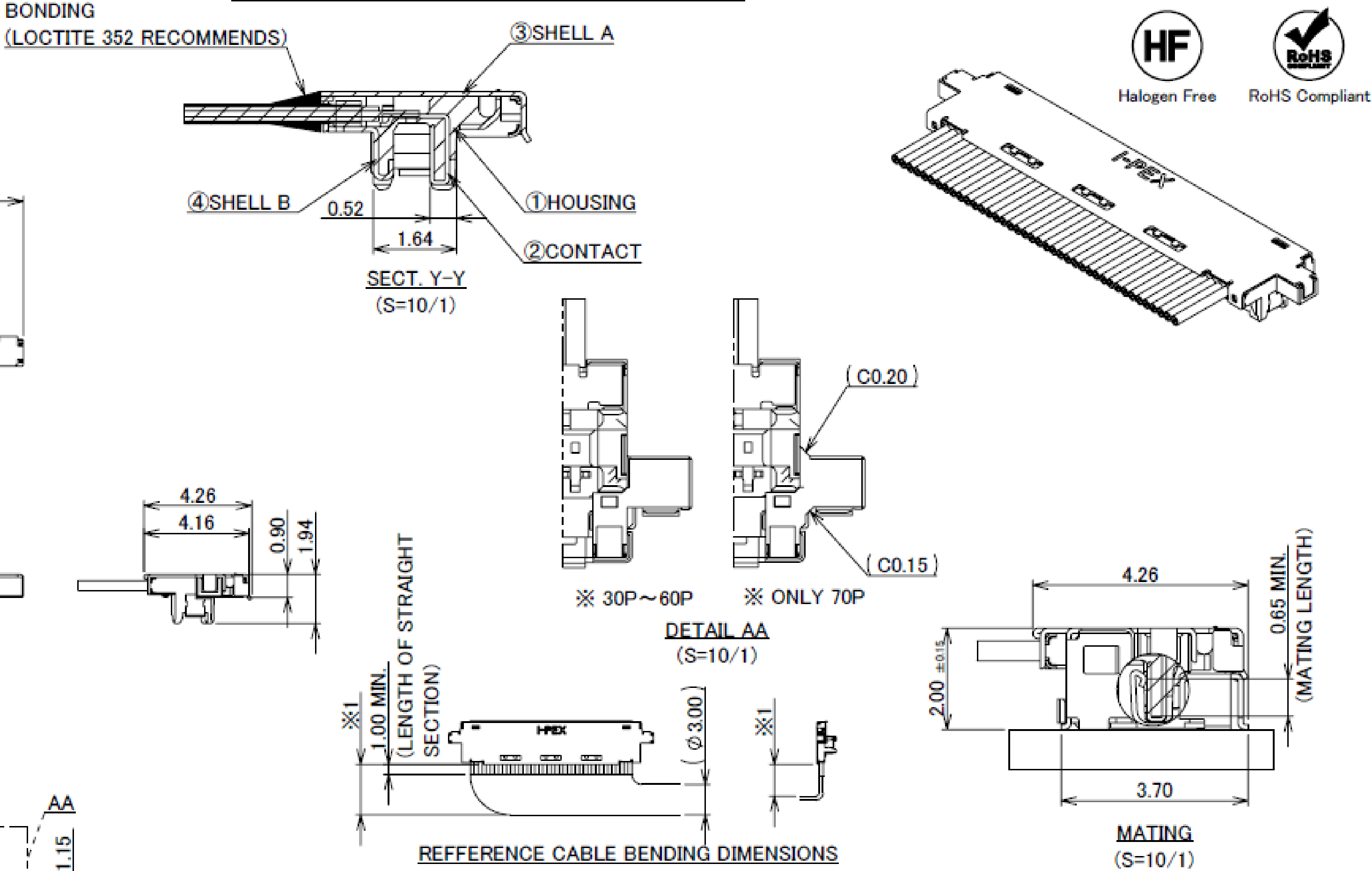
NOTES.			
1. THE LOCK COVER MUST BE OPENED AT LEAST 25° TO PROPERLY UNMATE THE PLUG/HARNESS.			
5	LOCK COVER	PHOSPHOR BRONZE	ALL OVER Ni 1.0 μm MIN.
4	SHELL B	PHOSPHOR BRONZE	PARTIAL Au 0.003 μm MIN. OVER Ni 1.0 μm MIN.
3	SHELL A	PHOSPHOR BRONZE	PARTIAL Au 0.003 μm MIN. OVER Ni 1.0 μm MIN.
2	CONTACT	CORSON ALLOY	ALL OVER Ni 1.0 μm MIN. CONTACT & SOLDERING AREA : Au 0.03 μm MIN.
1	HOUSING	LCP	UL94V-0 ,BLACK
NO.	DISCRIPTION	MATERIAL	FINISH , REMARKS

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Recommended P/N		20877-0**T-01			
PART NO.	Pos.	A	B	C	D
20877-030T-02	30	16.20	13.85	13.65	11.60
20877-040T-02	40	20.20	17.85	17.65	15.60
20877-050T-02	50	24.20	21.85	21.65	19.60
20877-060T-02	60	28.20	25.85	25.65	23.60
20877-070T-02	70	32.20	29.85	29.65	27.60



Without LOCK COVER

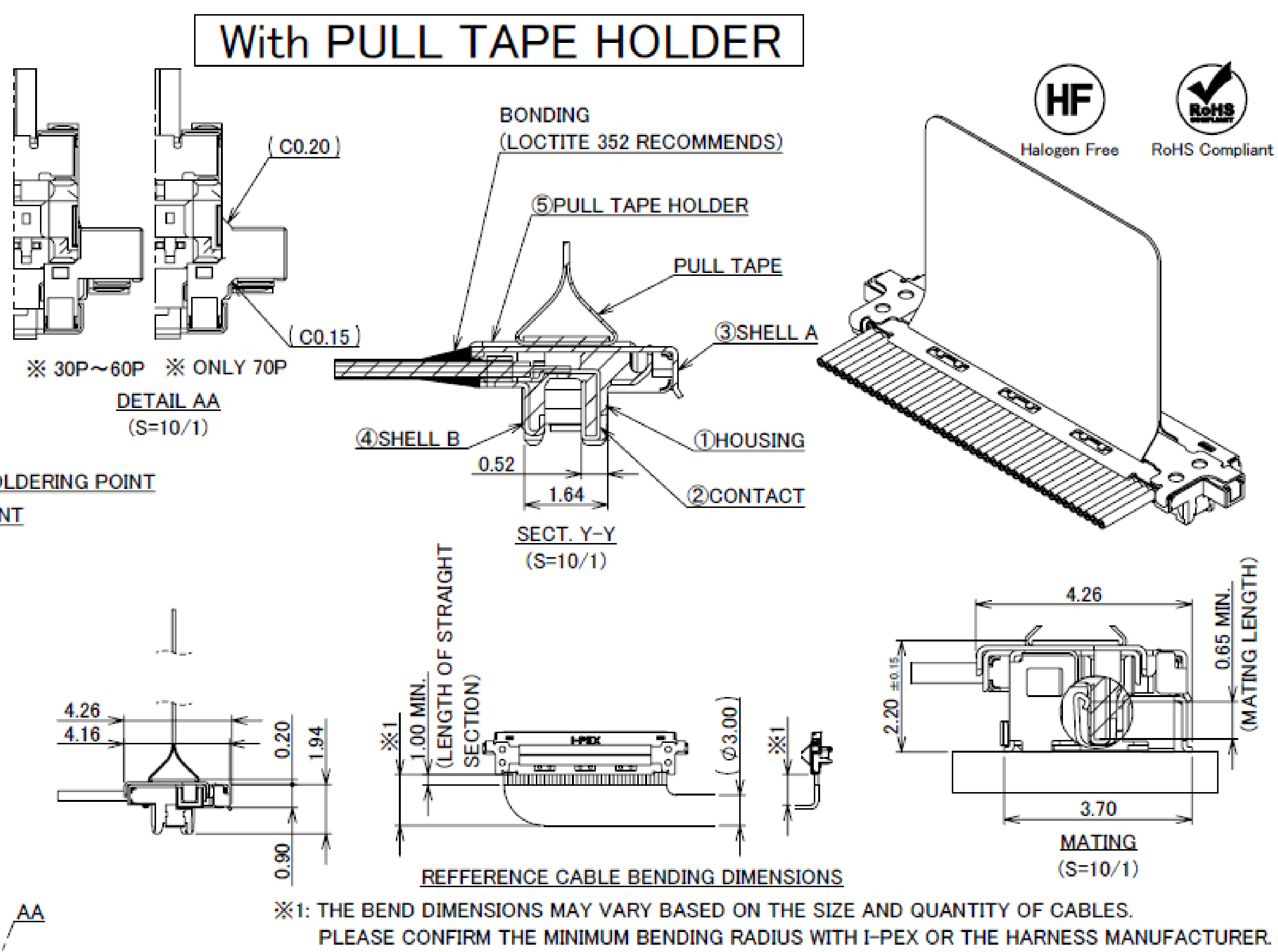
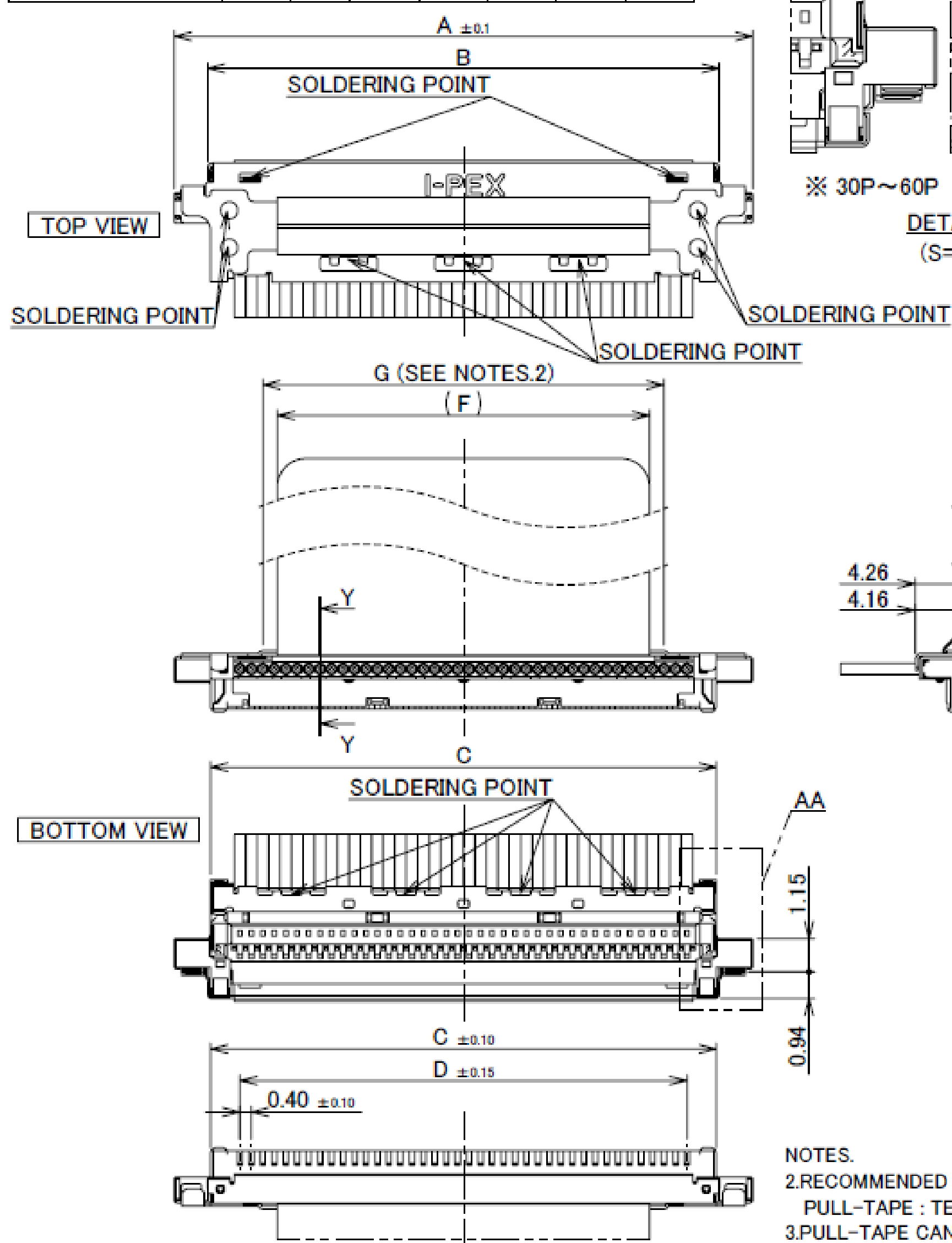


NOTES.			
1. THE BEND DIMENSIONS MAY VARY BASED ON THE SIZE AND QUANTITY OF CABLES. PLEASE CONFIRM THE MINIMUM BENDING RADIUS WITH I-PEX OR THE HARNESS MANUFACTURER.			
4	SHELL B	PHOSPHOR BRONZE	PARTIAL Au 0.003 μm MIN. OVER Ni 1.0 μm MIN.
3	SHELL A	PHOSPHOR BRONZE	PARTIAL Au 0.003 μm MIN. OVER Ni 1.0 μm MIN.
2	CONTACT	CORSON ALLOY	ALL OVER Ni 1.0 μm MIN. CONTACT & SOLDERING AREA : Au 0.03 μm MIN.
1	HOUSING	LCP	UL94V-0 ,BLACK
NO.	DISCRIPTION	MATERIAL	FINISH , REMARKS

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Plug for Cable Assembly

Recommended P/N		20877-0**T-01					
PART NO.	Pos.	A	B	C	D	F	G
20877-030T-03	30	16.20	13.85	13.65	11.60	9.00	10.00
20877-040T-03	40	20.20	17.85	17.65	15.60	13.00	14.00
20877-050T-03	50	24.20	21.85	21.65	19.60	17.00	18.00
20877-060T-03	60	28.20	25.85	25.65	23.60	21.00	22.00
20877-070T-03	70	32.20	29.85	29.65	27.60	25.00	26.00



5	PULL TAPE HOLDER	PHOSPHOR BRONZE	PARTIAL Au 0.003 μ m MIN. OVER Ni 1.0 μ m MIN.
4	SHELL B	PHOSPHOR BRONZE	PARTIAL Au 0.003 μ m MIN. OVER Ni 1.0 μ m MIN.
3	SHELL A	PHOSPHOR BRONZE	PARTIAL Au 0.003 μ m MIN. OVER Ni 1.0 μ m MIN.
2	CONTACT	CORSON ALLOY	ALL OVER Ni 1.0 μ m MIN. CONTACT & SOLDERING AREA : Au 0.03 μ m MIN.
1	HOUSING	LCP	UL94V-0 ,BLACK
NO.	DISCRIPTION	MATERIAL	FINISH , REMARKS

NOTES.

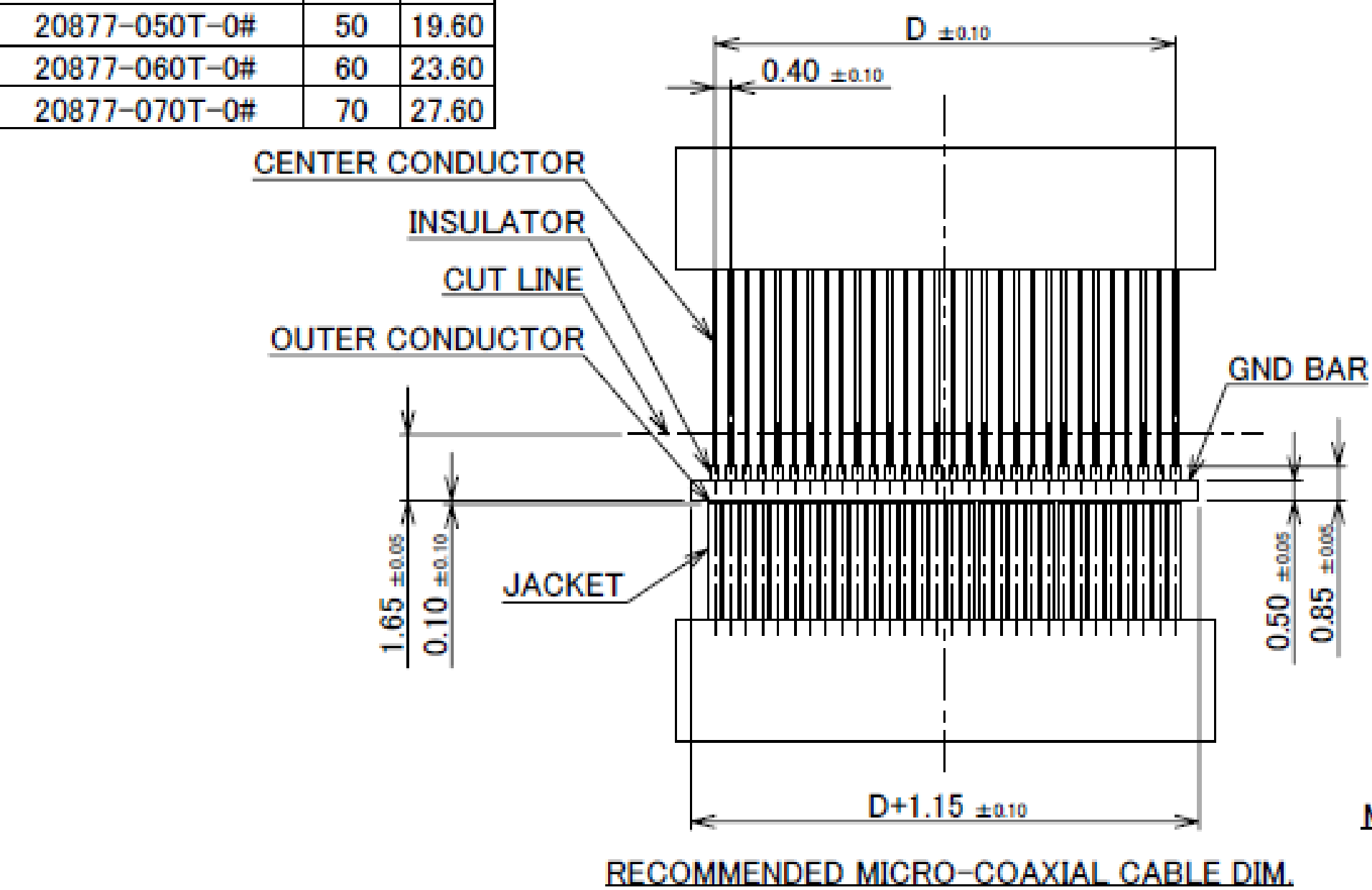
2.RECOMMENDED PULL-TAPE

PULL-TAPE : TERAOKA's INSULATION TAPE No.650S(#50) t=0.08

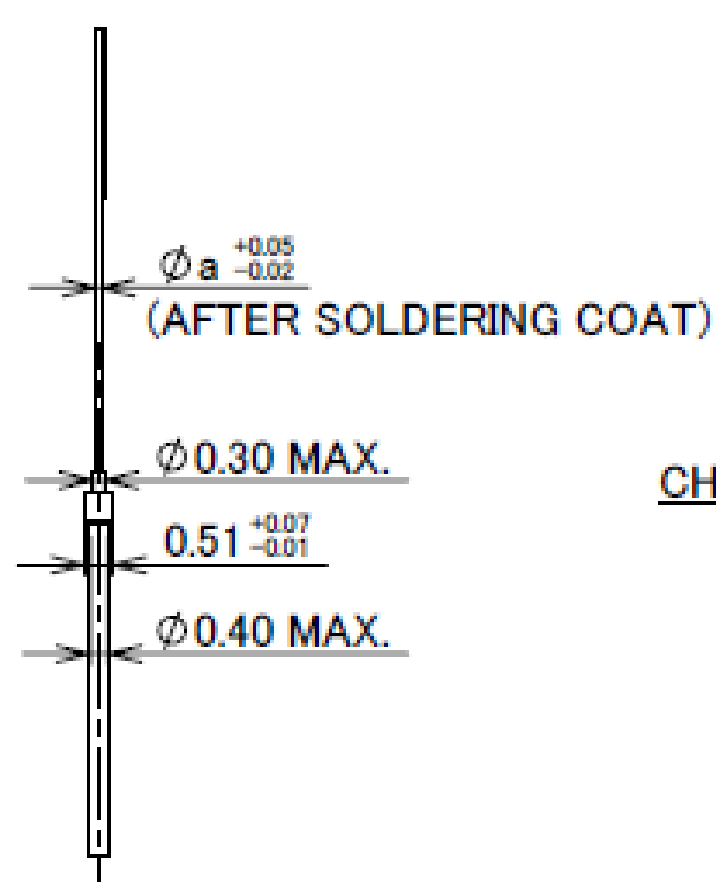
3.PULL-TAPE CAN BE PUT WITHIN THE RANGE OF "G" STRIAIGHT AREA.

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PART NO.	Pos.	D
20877-030T-0#	30	11.60
20877-040T-0#	40	15.60
20877-050T-0#	50	19.60
20877-060T-0#	60	23.60
20877-070T-0#	70	27.60



RECOMMENDED MICRO-COAXIAL CABLE DIM.



MICRO-COAXIAL CABLE AWG #**

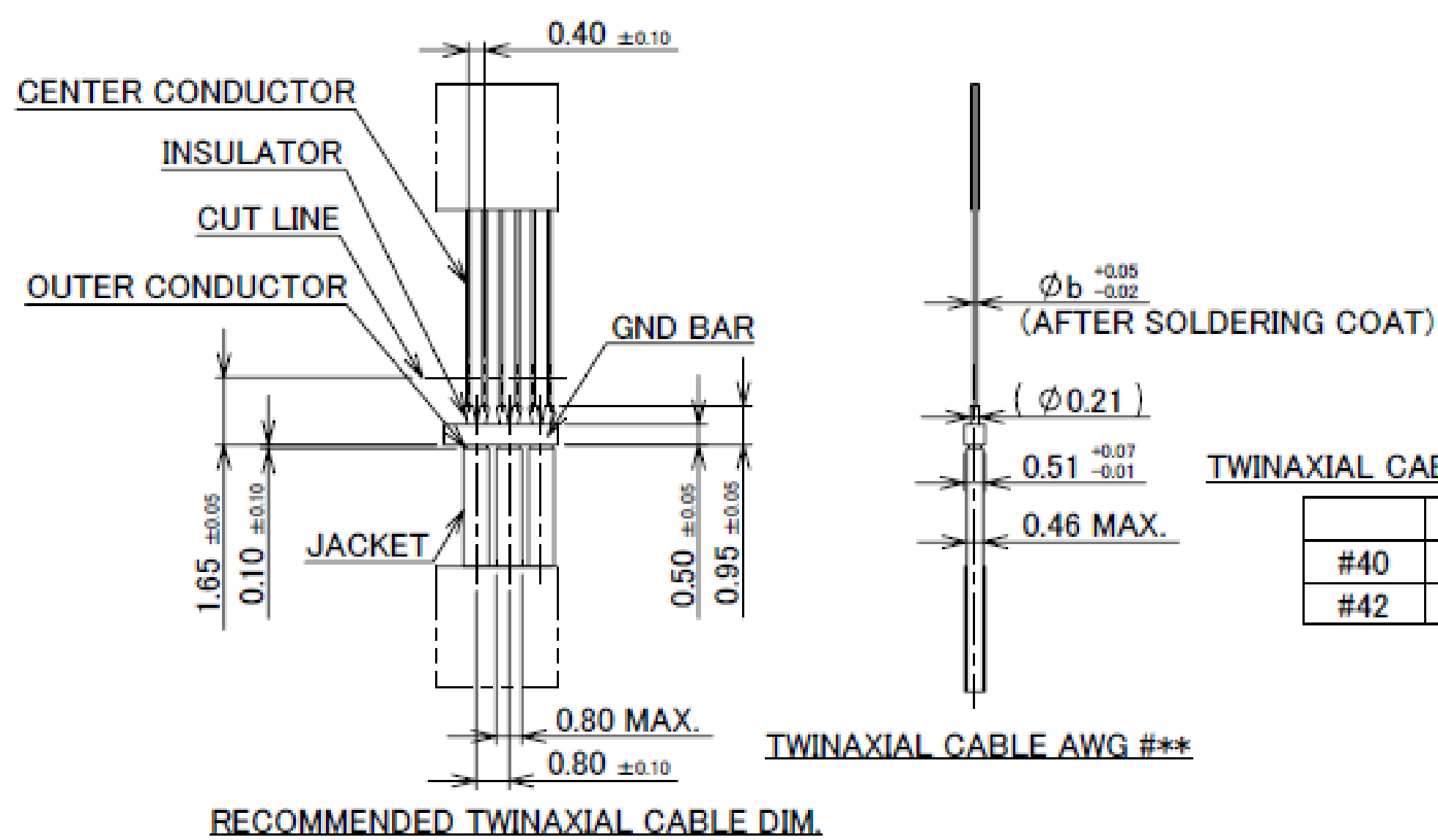
CHARACTERISTIC IMPEDANCE MATCHING MICRO-COAXIAL CABLE

	a
#38	0.12
#40	0.09
#42	0.075
#44	0.063

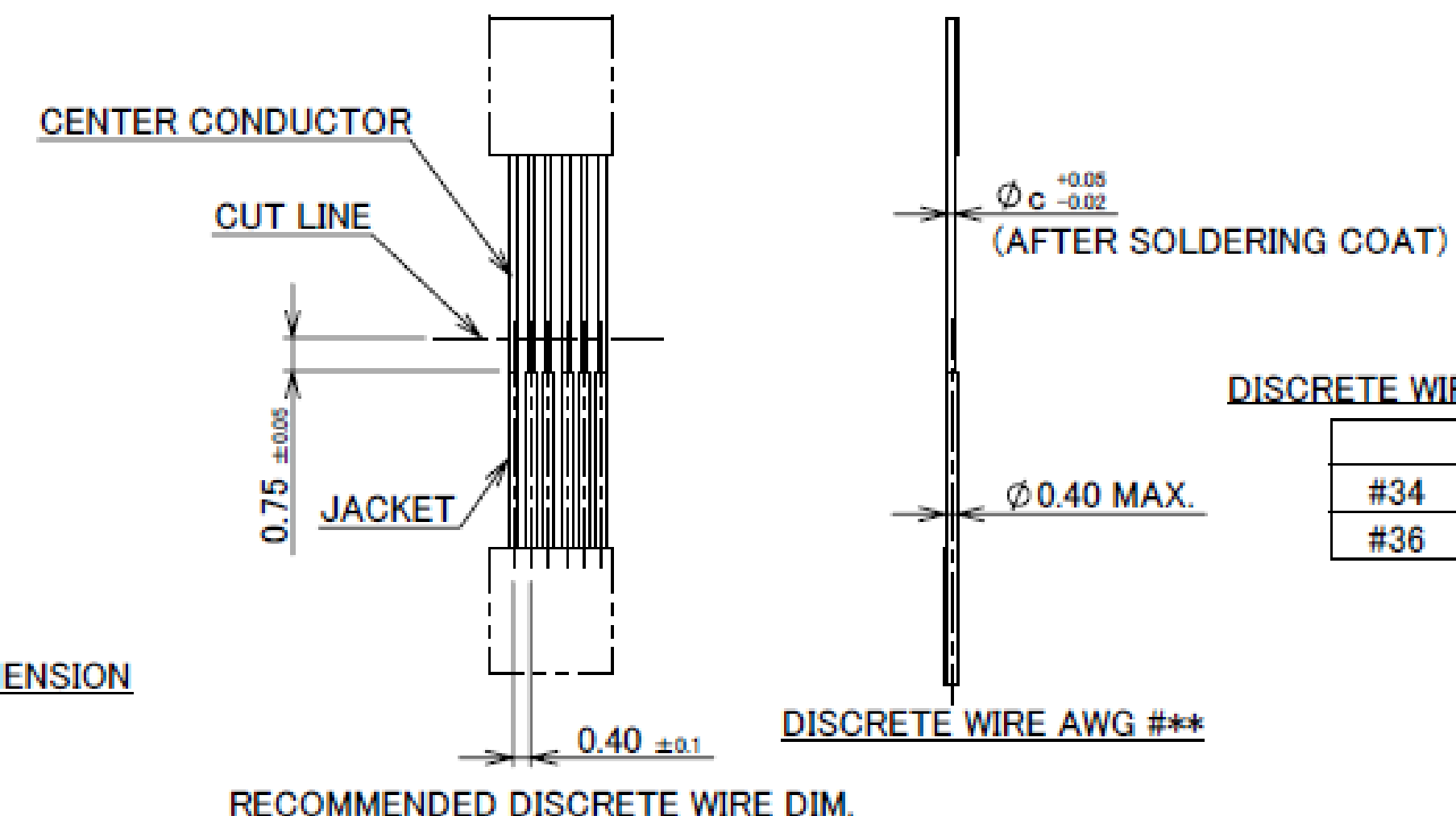
CHARACTERISTIC IMPEDANCE UN-MATCHING MICRO-COAXIAL CABLE

	a
#36	0.15

MICRO-COAXIAL CABLE #36 : NOT RECOMMENDED FOR
HIGH SPEED SIGNAL TRANSFER



RECOMMENDED TWINAXIAL CABLE DIM.



RECOMMENDED DISCRETE WIRE DIM.

DISCRETE WIRE DIMENSION

	c
#34	0.192
#36	0.15

DISCRETE WIRE AWG #**

Plug for Cable Assembly

ITEMS	SPECIFICATION
APPLICABLE CABLE	MICRO-COAXIAL CABLE : AWG #44 , 42 , 40 , 38 , 36 DISCRETE WIRE : AWG #36 , 34 TWINAXIAL CABLE : AWG #40 , 42
RATED VOLTAGE	100V AC (PER CONTACT PIN) ※THIS IS THE RATED VOLTAGE OF THE CONNECTOR. PLEASE NOTE THAT THE RATED VOLTAGE MAY VARY IN THE HARNESS DEPENDING ON THE CABLES USED.
RATED AMPERAGE (FOR CONTACT)	0.15A AC/DC [AWG #44] PER CONTACT PIN/UP TO 60 CONTACTS 0.24A AC/DC [AWG #42] PER CONTACT PIN/UP TO 49 CONTACTS 0.3A AC/DC [AWG #40] PER CONTACT PIN/UP TO 38 CONTACTS 0.5A AC/DC [AWG #38] PER CONTACT PIN/UP TO 19 CONTACTS 0.8A AC/DC [AWG #36] PER CONTACT PIN/UP TO 12 CONTACTS 1.0A AC/DC [AWG #34] PER CONTACT PIN/UP TO 10 CONTACTS ※TESTING BY A REAL MACHINE IS RECOMMENDED BECAUSE TEMPERATURE RISE MAY AFFECTED BY ACTUAL SITUATION.
OPERATING TEMPERATURE	233 TO 378K (−40°C TO +105°C)
OPERATING HUMIDITY	85% MAX.
CONTACT RESISTANCE	INITIAL : 180mohm MAX.(AWG #34) / AFTER TEST : ≦140mohm MAX. 275mohm MAX.(AWG #36) 360mohm MAX.(AWG #38) 600mohm MAX.(AWG #40) 700mohm MAX.(AWG #42) 1080mohm MAX.(AWG #44)
GROUND SHELL RESISTANCE	INITIAL : 50mohm MAX. / AFTER TEST : ≦140mohm MAX.
INSULATION RESISTANCE	INITIAL : 1000Mohm MIN. / AFTER TEST : 500Mohm MIN.
DIELECTRIC WITHSTANDING VOLTAGE	AC250V 1min
DURABILITY	30 CYCLES
MATING FORCE (INITIAL / AFTER TEST)	30P : 34.00N MAX. 60P : 52.00N MAX. 40P : 40.00N MAX. 70P : 58.00N MAX. 50P : 46.00N MAX.
UNMATING FORCE (INITIAL / AFTER TEST)	30P : 3.0N MIN. 60P : 6.0N MIN. 40P : 4.0N MIN. 70P : 7.0N MIN. 50P : 5.0N MIN.
CABLE RETENTION FORCE	30P : 14.70N MIN. 60P : 29.40N MIN. 40P : 19.60N MIN. 70P : 34.30N MIN. 50P : 24.50N MIN.
PRODUCT SPECIFICATION	PRS-2514
TEST REPORT	TR-18067 (RECEPTACLE:20879-0**E-01) TR-18088 (RECEPTACLE:20879-0**E-02)
INSTRUCTION MANUAL	HIM-18033
ASSEMBLY MANUAL	ASM-18003
APPEARANCE CRITERIA No.	QLS-A***

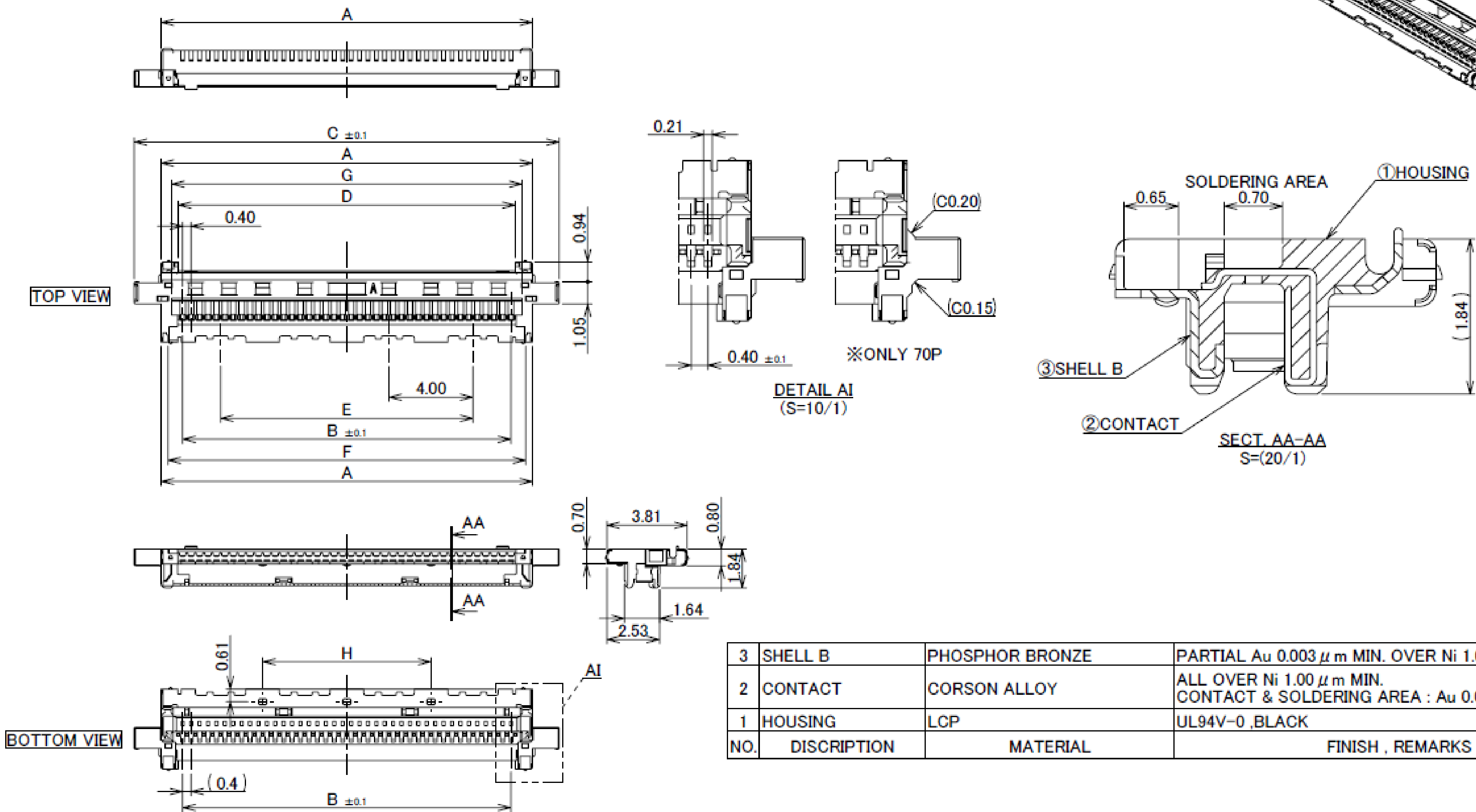
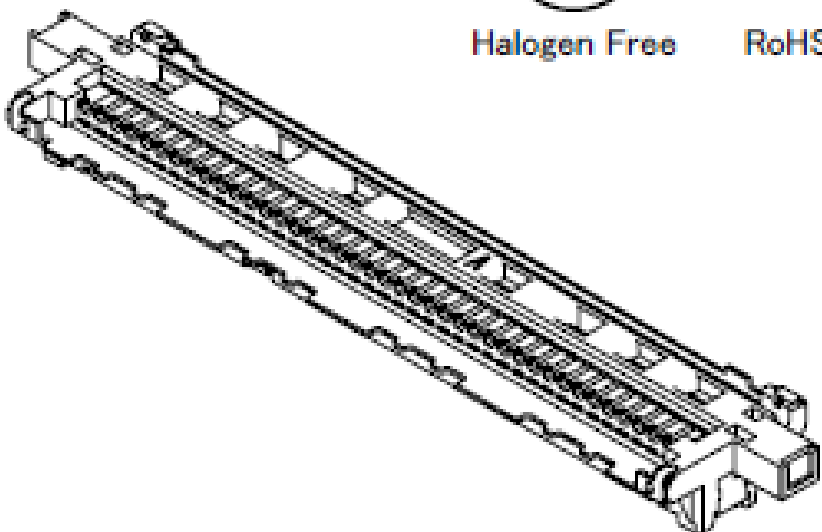
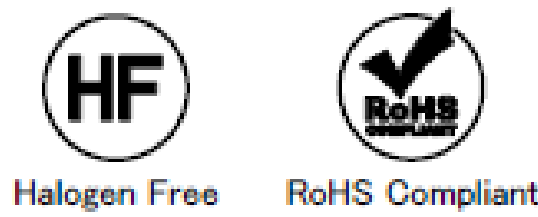
※Only the single-hook pull jig is permitted for 70P.
The dual-hook pull jig is not allowed for 70P.

Rev.18

Plug Housing Assembly

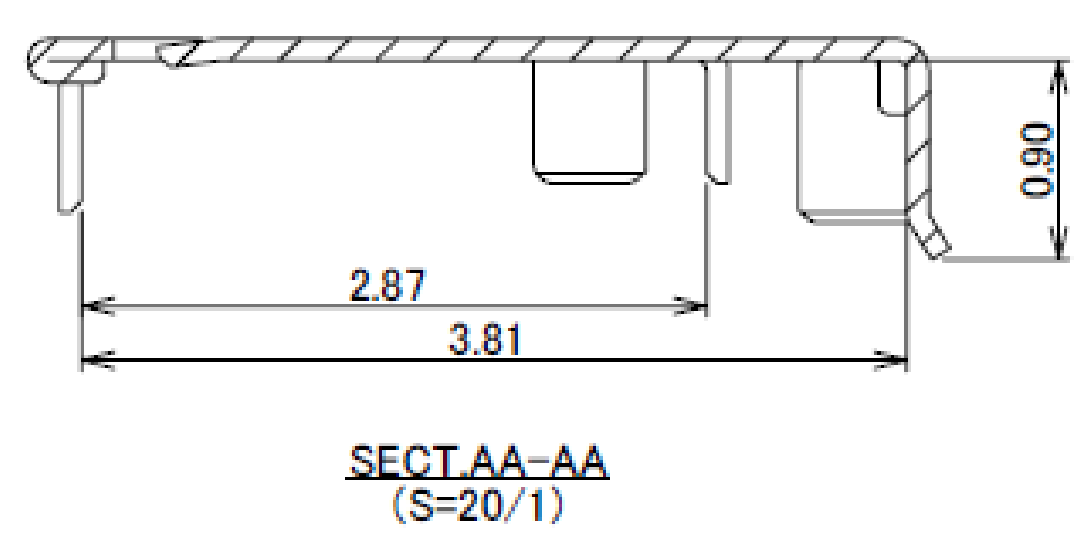
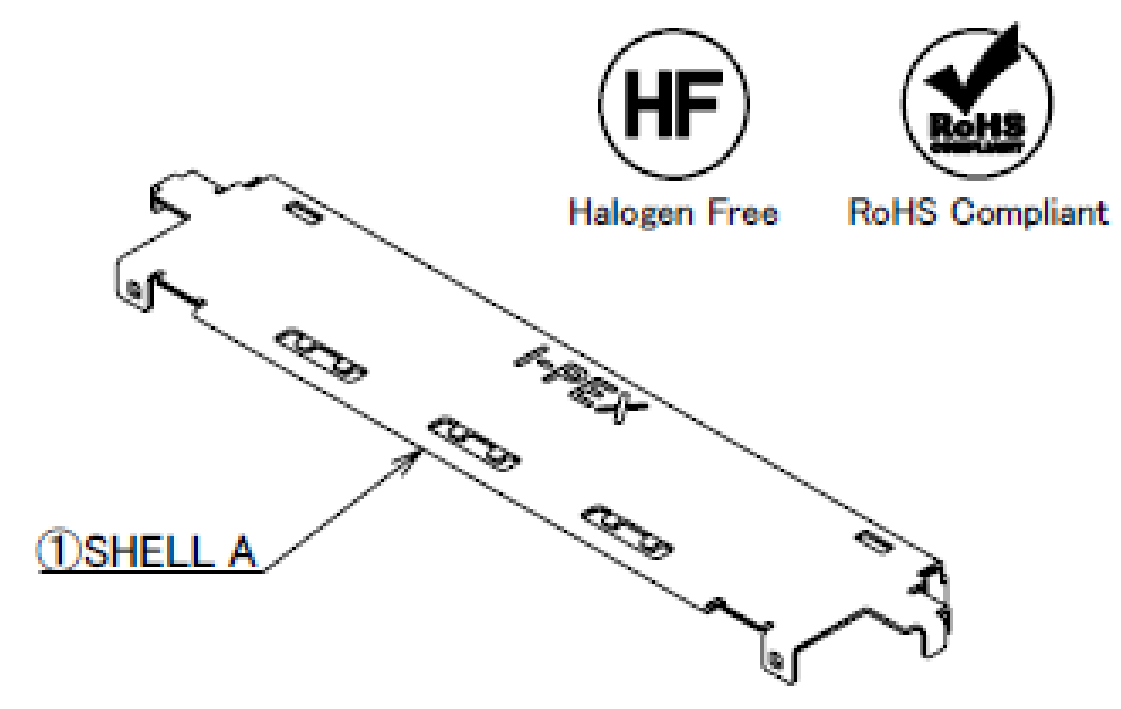
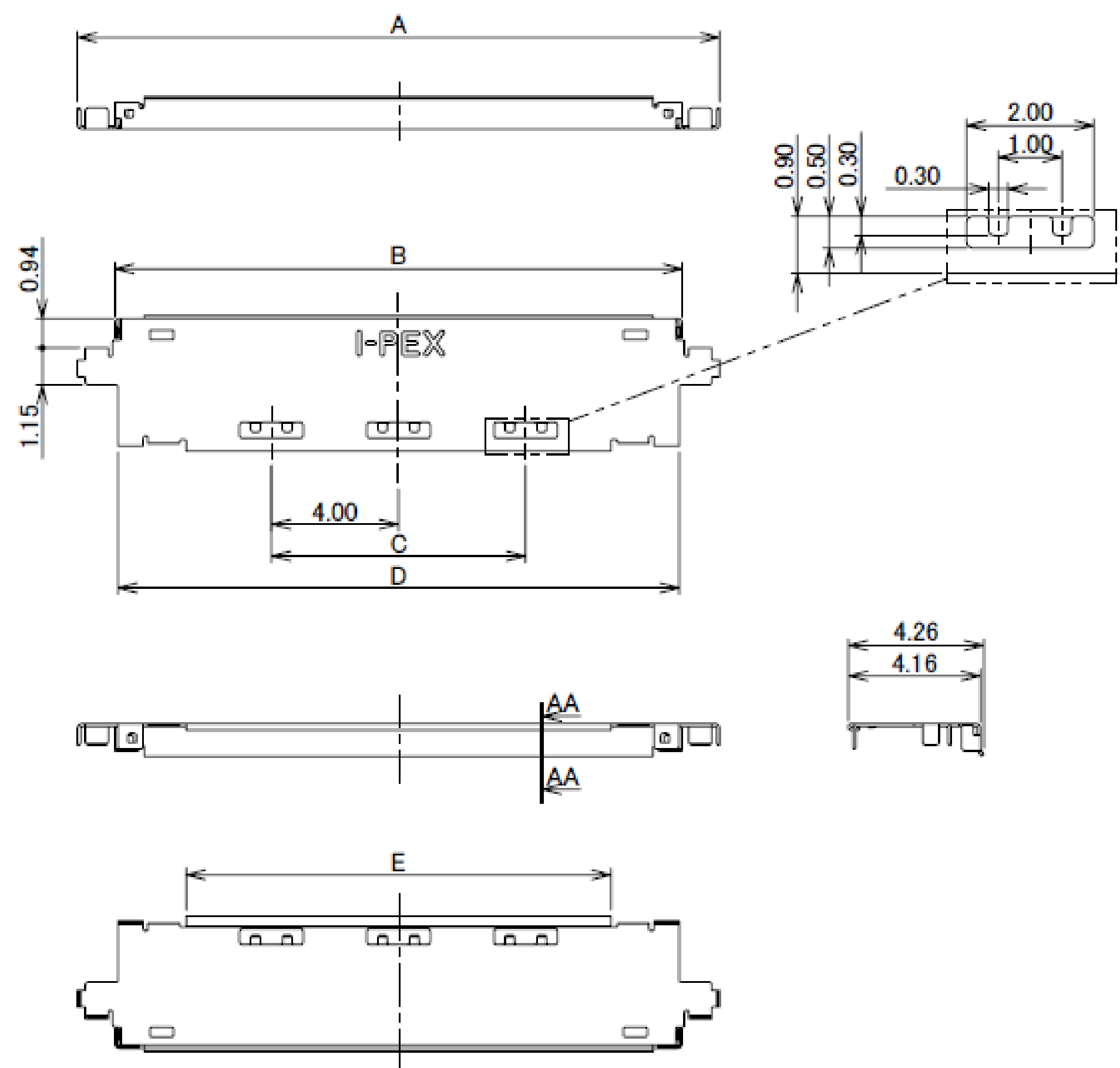
Recommended P/N 20878-0**T-01

PART No.	Pos.	A	B	C	D	E	F	G	H
20878-030T-01	30	13.65	11.60	16.20	12.01	8.00	13.00	12.65	4.00
20878-040T-01	40	17.65	15.60	20.20	16.01	12.00	17.00	16.65	8.00
20878-050T-01	50	21.65	19.60	24.20	20.01	16.00	21.00	20.65	12.00
20878-060T-01	60	25.65	23.60	28.20	24.01	20.00	25.00	24.65	16.00
20878-070T-01	70	29.65	27.60	32.20	28.01	24.00	29.00	28.65	20.00



Plug Shell-A

Recommended P/N		3488-0**1				
PART No.	Pos.	A	B	C	D	E
3488-0301	30	16.20	13.88	4.00	13.65	9.36
3488-0401	40	20.20	17.88	8.00	17.65	13.36
3488-0501	50	24.20	21.88	12.00	21.65	17.36
3488-0601	60	28.20	25.88	16.00	25.65	21.36
3488-0701	70	32.20	29.88	20.00	29.65	25.36

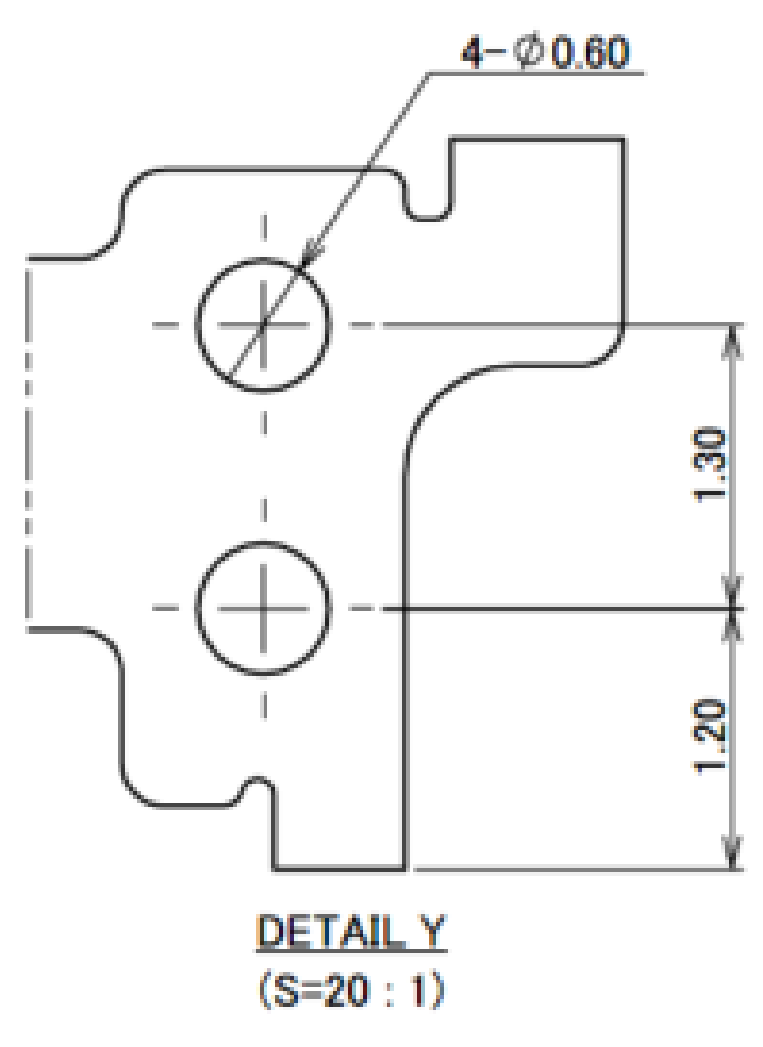
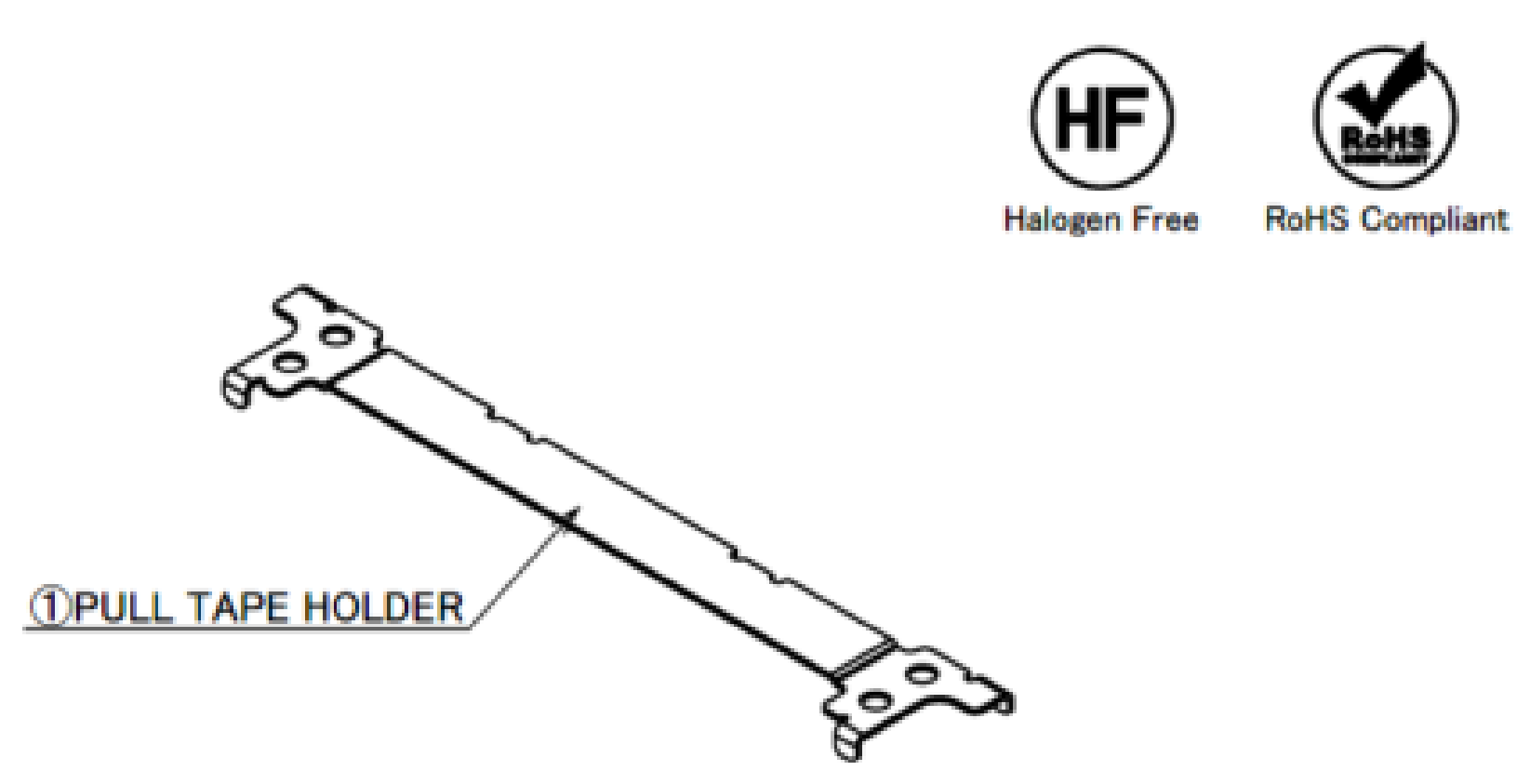
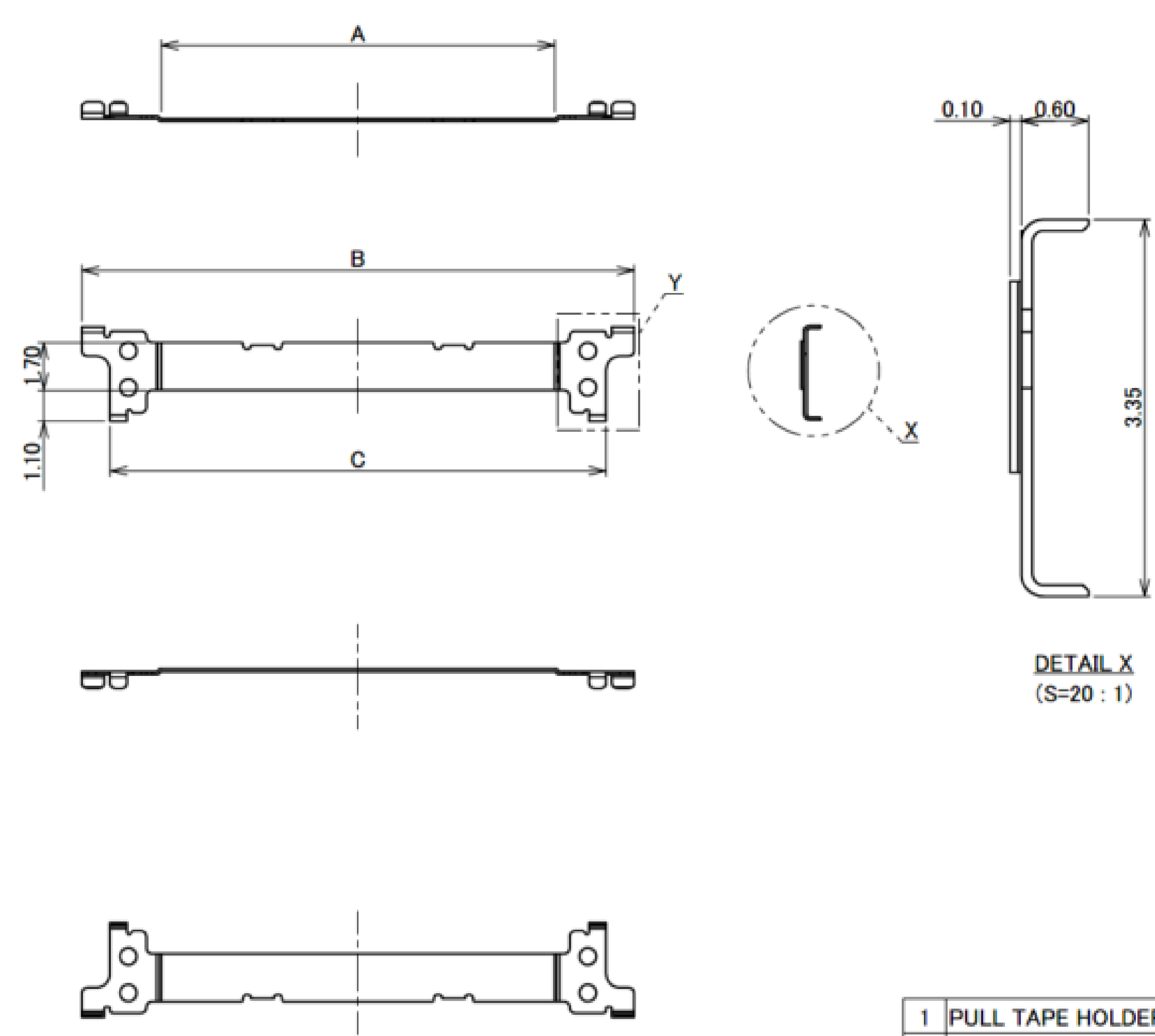


1	SHELL A	PHOSPHOR BRONZE	PARTIAL Au 0.003 μ m MIN. OVER Ni 1.00 μ m MIN.
NO.	DISCRIPTION	MATERIAL	FINISH , REMARKS

Rev.5

Plug Pull Tape Holder

Recommended P/N		3588-0**1		
PART NO.	Pos.	A	B	C
3588-0301	30	10.00	15.65	13.65
3588-0401	40	14.00	19.65	17.65
3588-0501	50	18.00	23.65	21.65
3588-0601	60	22.00	27.65	25.65
3588-0701	70	26.00	31.65	29.65

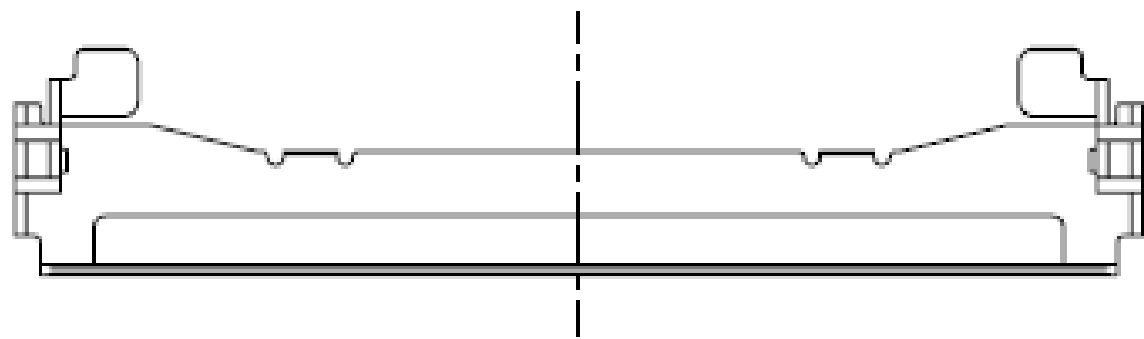
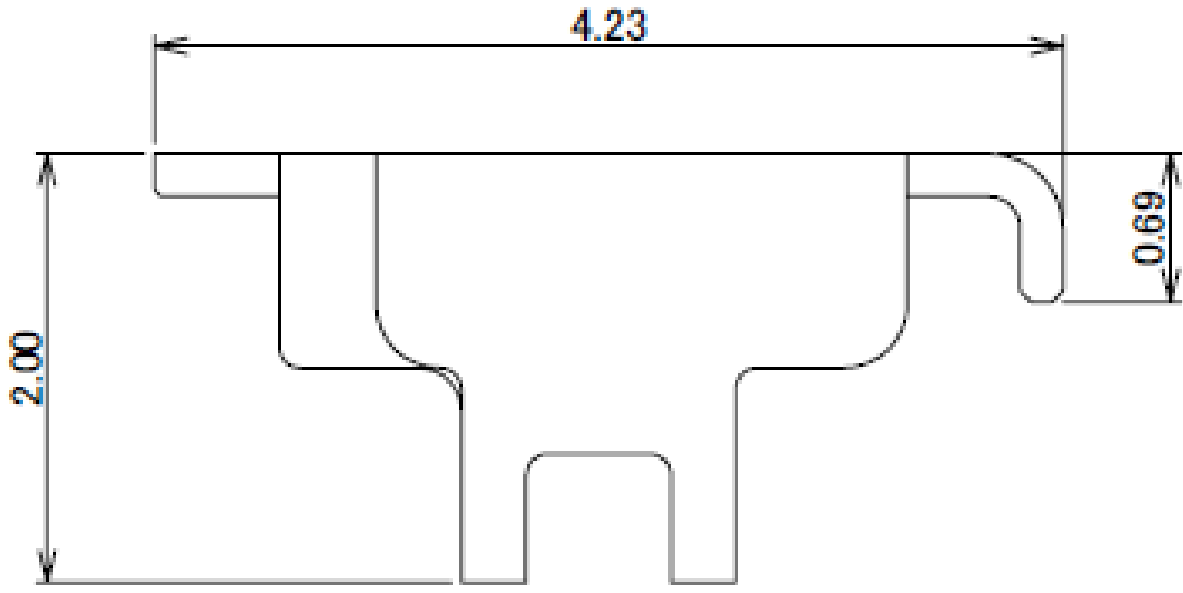
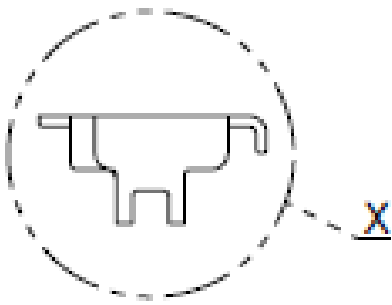
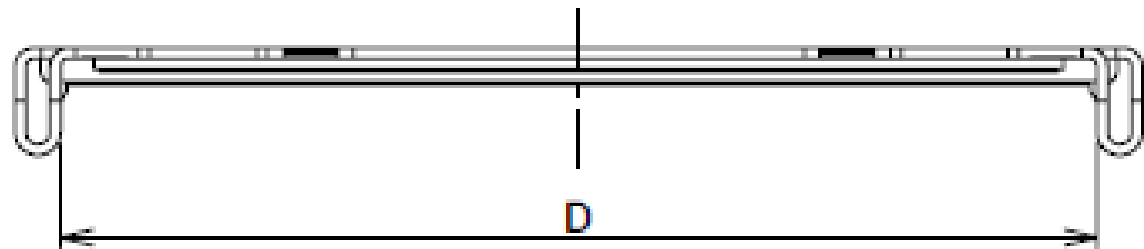
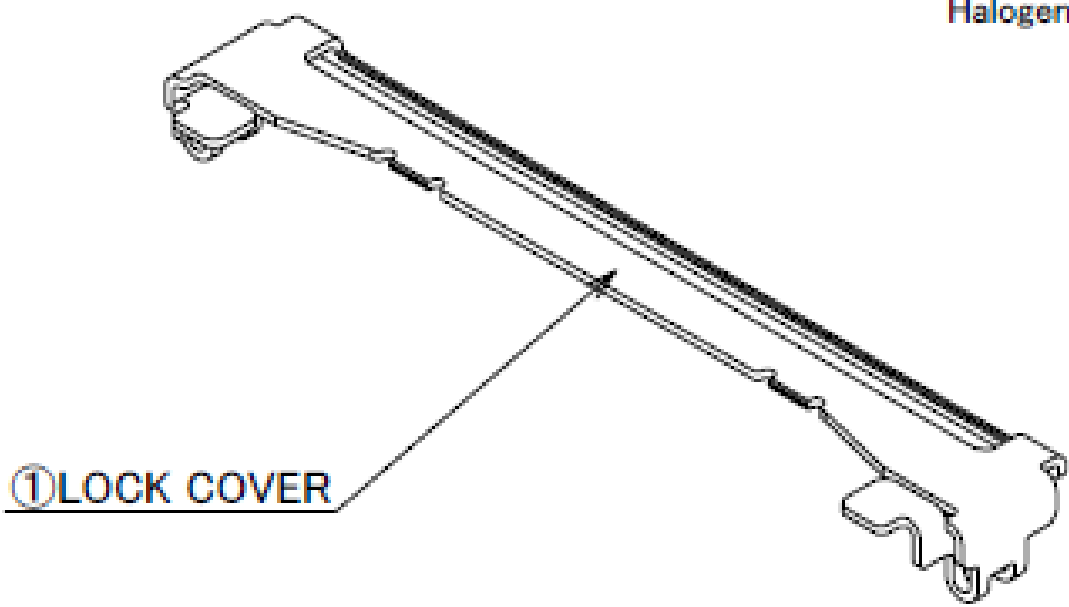
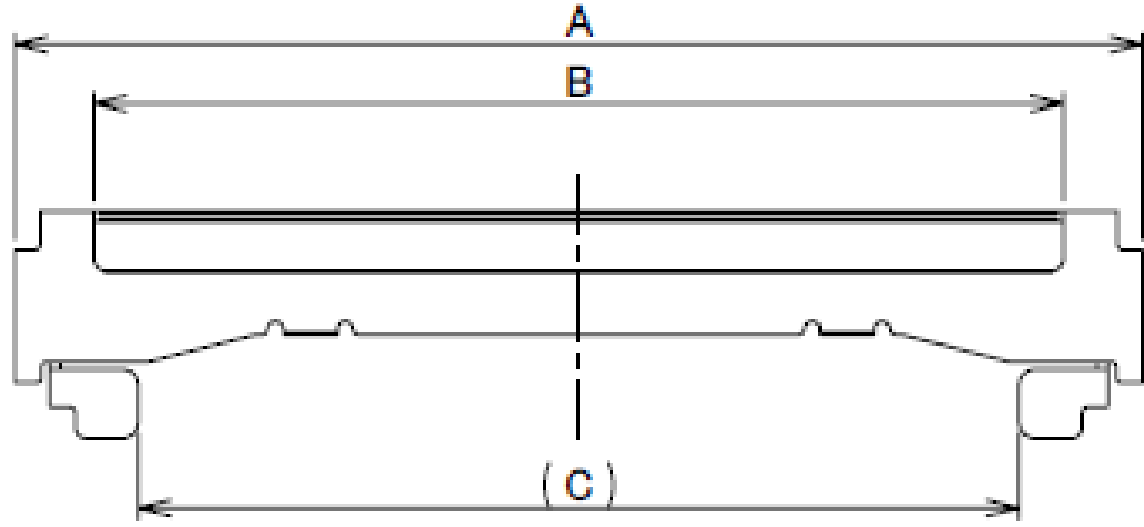
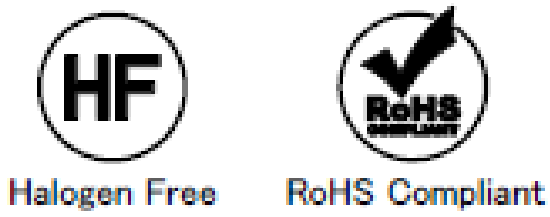


1	PULL TAPE HOLDER	PHOSPHOR BRONZE	PARTIAL Au 0.003 μ m MIN. OVER Ni 1.00 μ m MIN.
NO.	DISCRIPTION	MATERIAL	FINISH , REMARKS

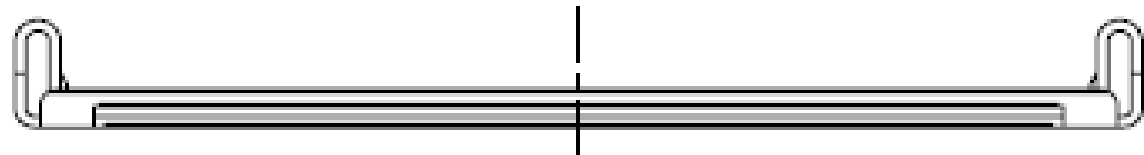
Rev.5

Lock Cover

Recommended P/N		3493-0**1			
PART NO.	Pos.	A	B	C	D
3493-0301	30	17.00	14.05	12.40	15.30
3493-0401	40	21.00	18.05	16.40	19.30
3493-0501	50	25.00	22.05	20.40	23.30
3493-0601	60	29.00	26.05	24.40	27.30
3493-0701	70	33.00	30.05	28.40	31.30



DETAIL X
(S=20 : 1)



1	LOCK COVER	PHOSPHOR BRONZE	ALL OVER Ni 1.00 μ m MIN.
NO.	DISCRIPTION	MATERIAL	FINISH , REMARKS

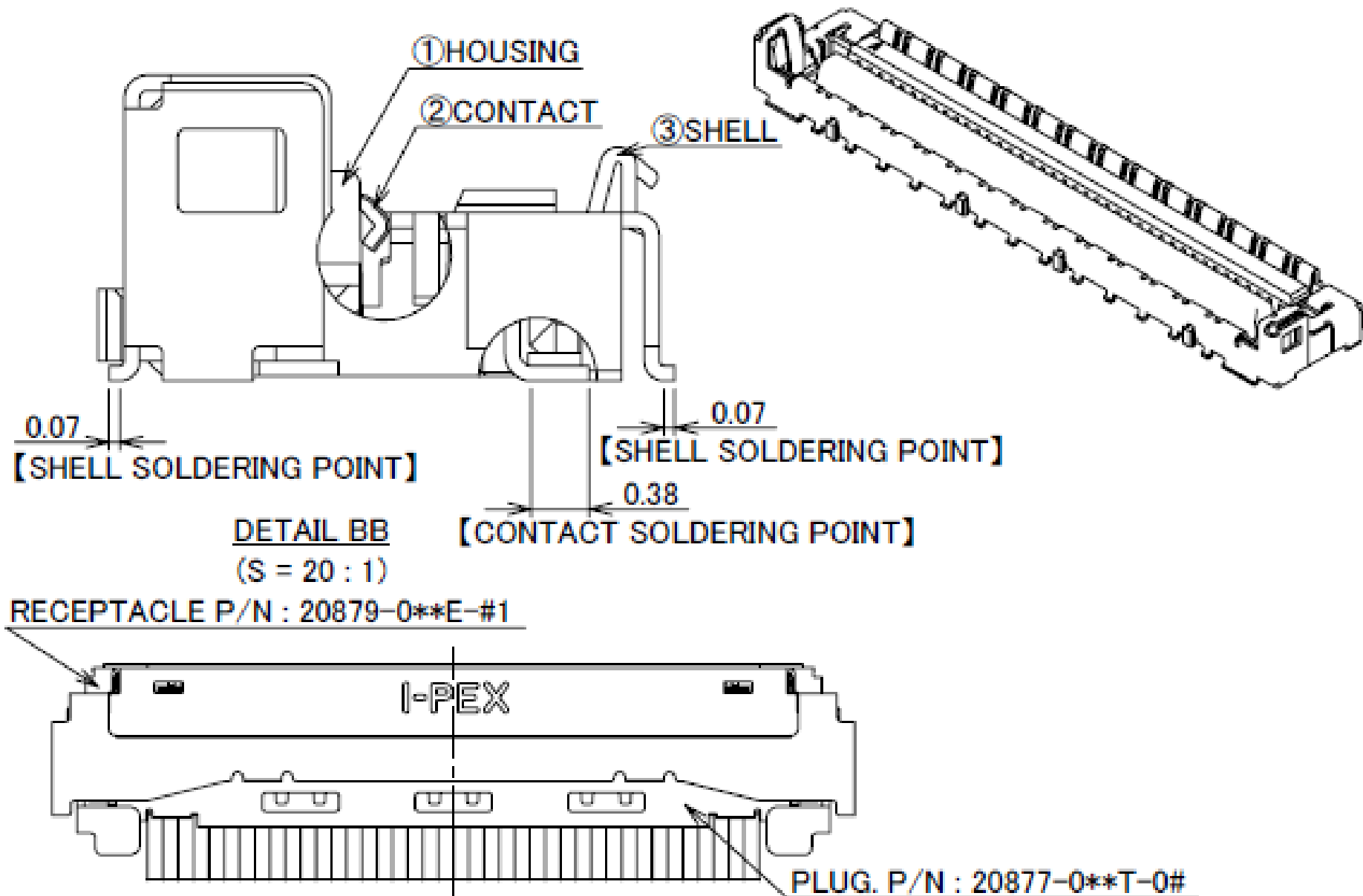
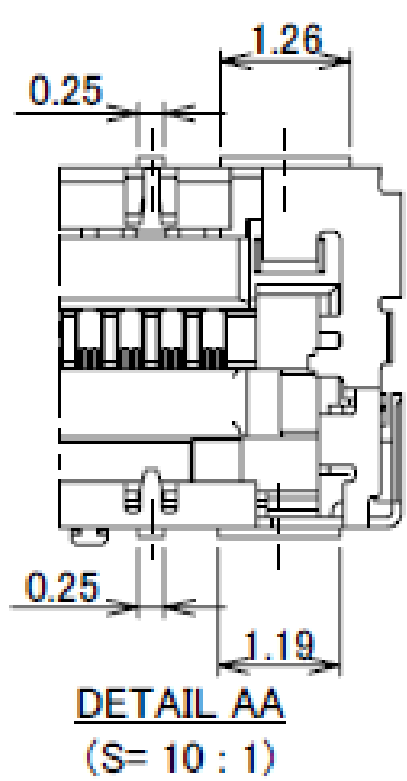
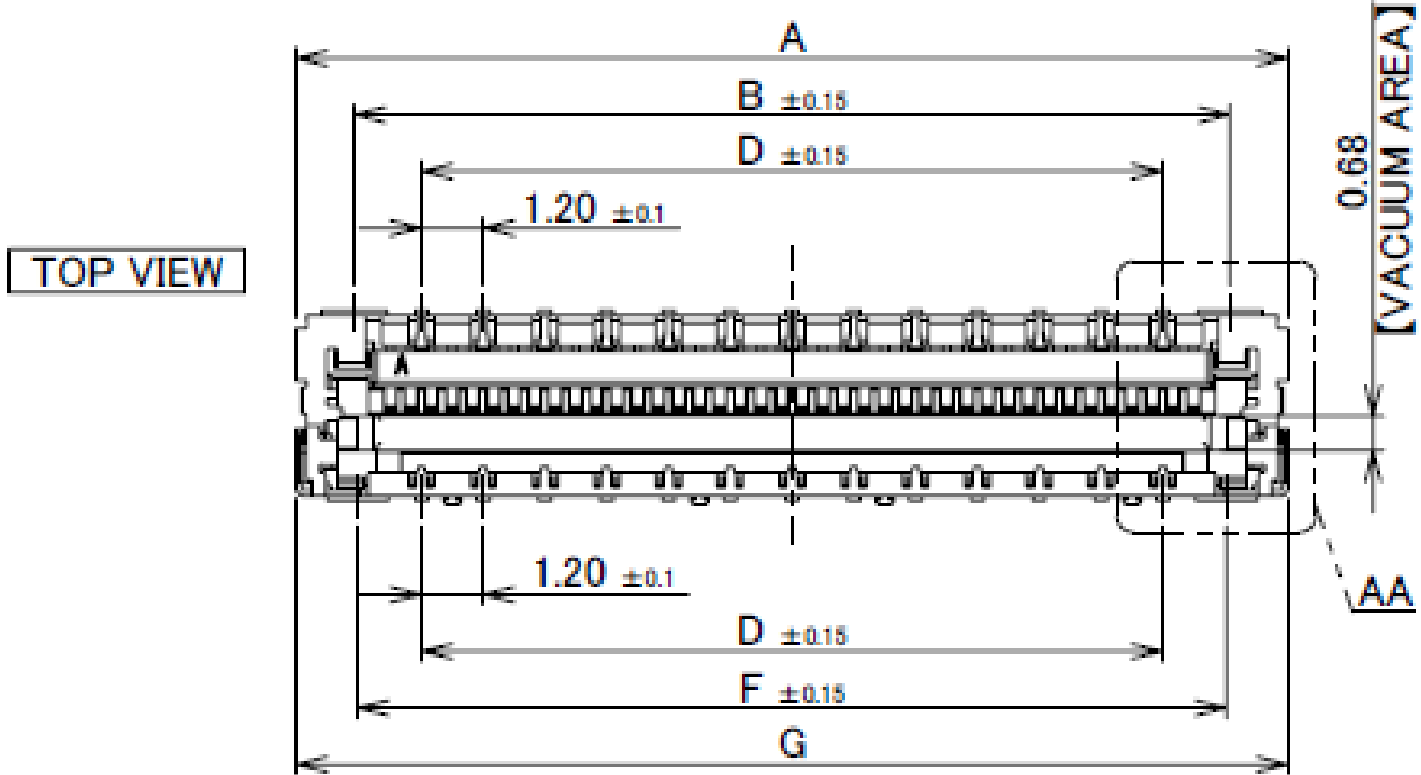
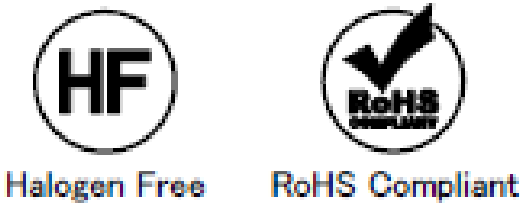
Rev.5

Receptacle Assembly

Recommended P/N		20879-0**E-01							
PART NO.	Pos.	A	B	C	D	E	F	G	H
20879-030E-#1	30	15.27	13.01	11.60	9.60	12.07	12.88	15.27	13.65
20879-040E-#1	40	19.27	17.01	15.60	14.40	16.07	16.88	19.27	17.65
20879-050E-#1	50	23.27	21.01	19.60	17.60	20.07	20.88	23.27	21.65
20879-060E-#1	60	27.27	25.01	23.60	21.60	24.07	24.88	27.27	25.65

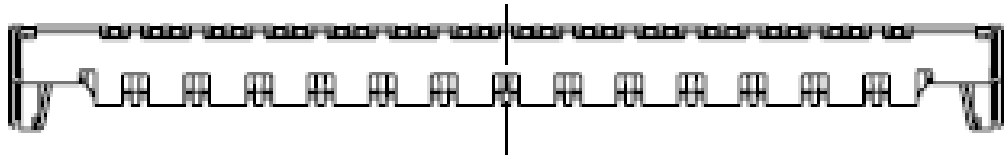
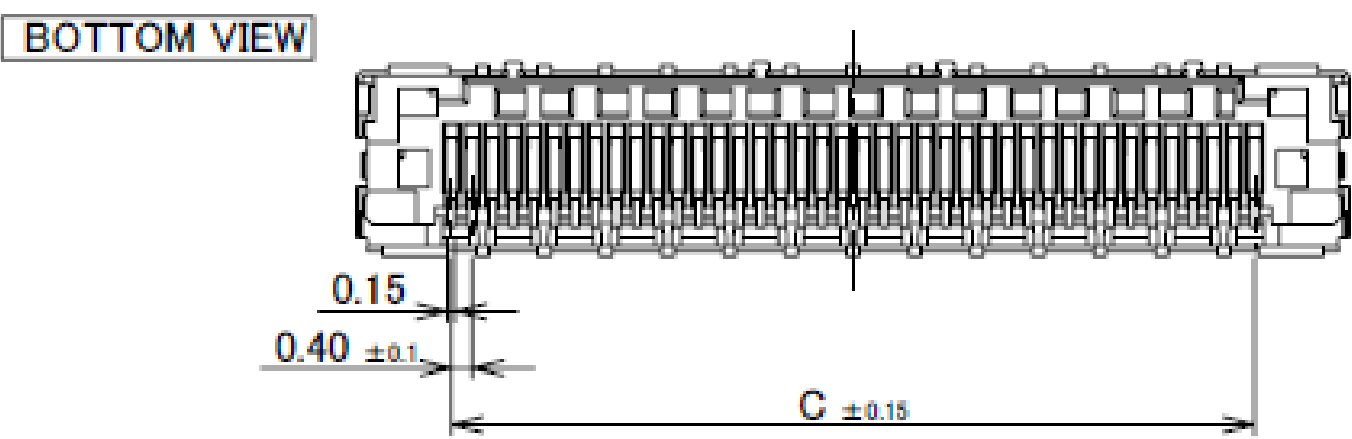
P/N : 20879-0**E-##
1 : NARROW GROUND PIN TYPE
2 : WIDER GROUND PIN TYPE
SEE TABLE.1
Pos.

#1 TYPE



MATING CONDITION
TABLE.1

PART NO.	CONTACT FINISH
20879-0**E-01	ALL OVER Ni 1.00 μ m MIN. CONTACT & SOLDERING AREA : Au 0.03 μ m MIN.
20879-0**E-11	ALL OVER Ni 1.27 μ m MIN. CONTACT AREA : Au 0.254 μ m MIN. SOLDERING AREA : Au 0.03 μ m MIN.

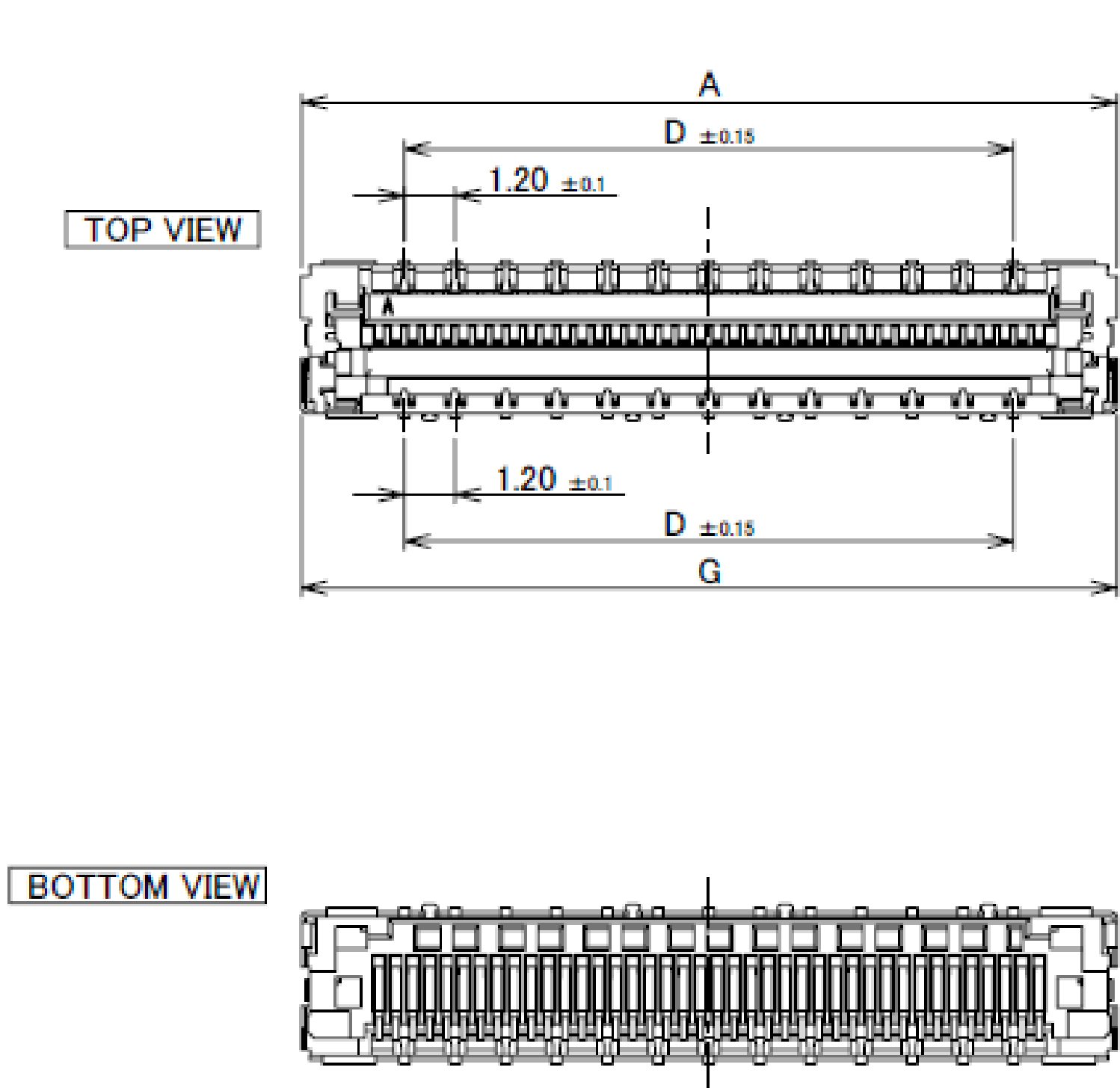
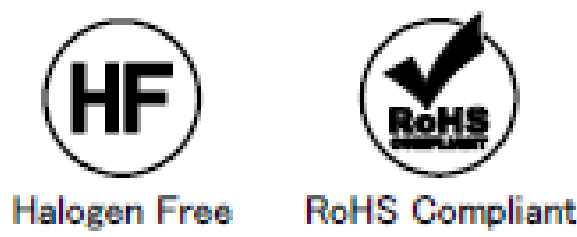


3	SHELL	PHOSPHOR BRONZE	ALL OVER : Ni 1.00 μ m MIN. SOLDERING AREA : Au 0.02 μ m MIN.
2	CONTACT	CORSON ALLOY	SEE TABLE.1
1	HOUSING	LCP	UL94V-0, BLACK
NO.	DISCRIPTION	MATERIAL	FINISH , REMARKS

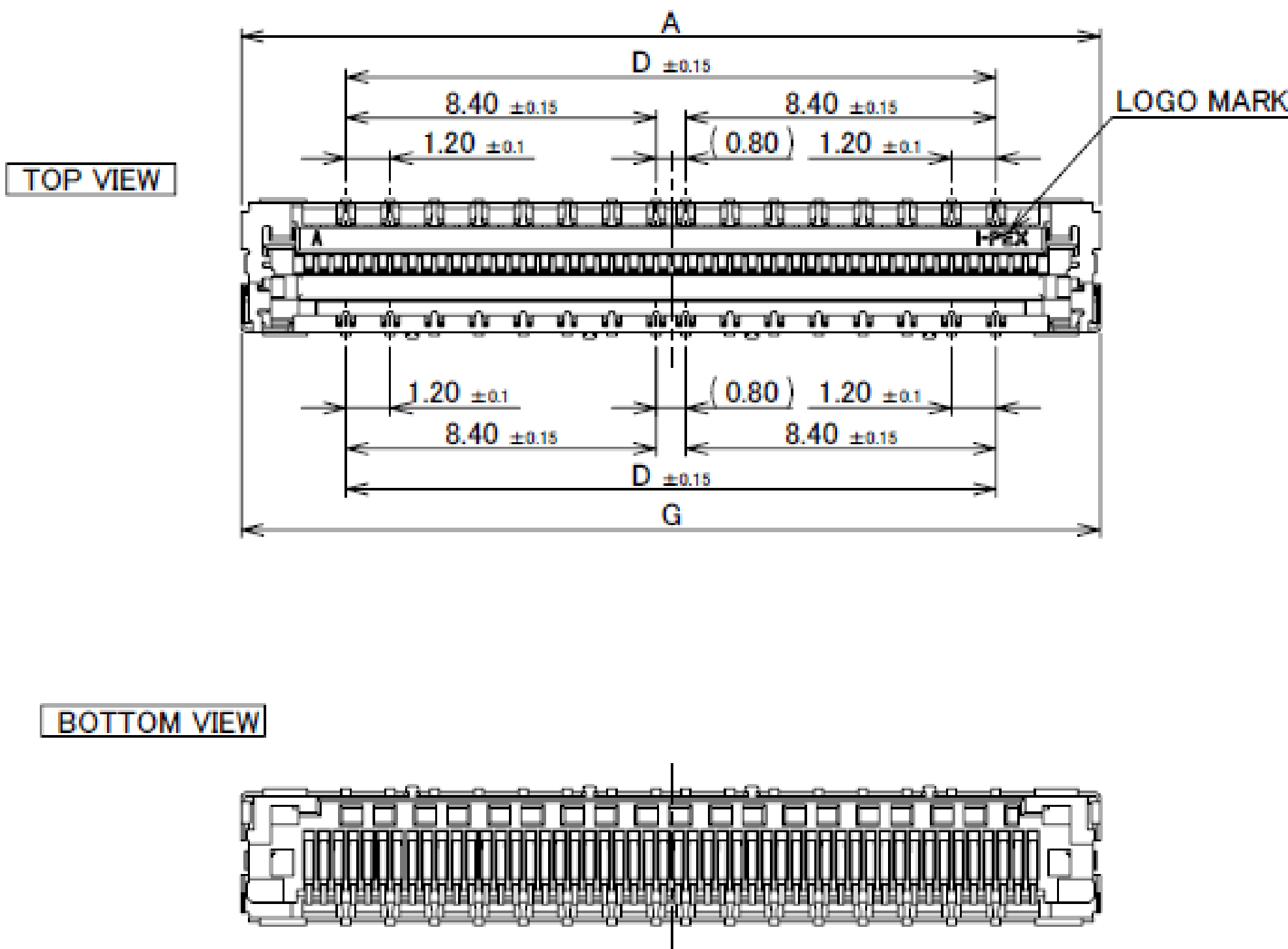
Rev.18

Receptacle Assembly

Recommended P/N		20879-0**E-01			
PART NO.	Pos.	A	D	G	
20879-030E-#1	30	15.27	9.60	15.27	
20879-040E-#1	40	19.27	14.40	19.27	
20879-050E-#1	50	23.27	17.60	23.27	
20879-060E-#1	60	27.27	21.60	27.27	



30P, 40P, 60P

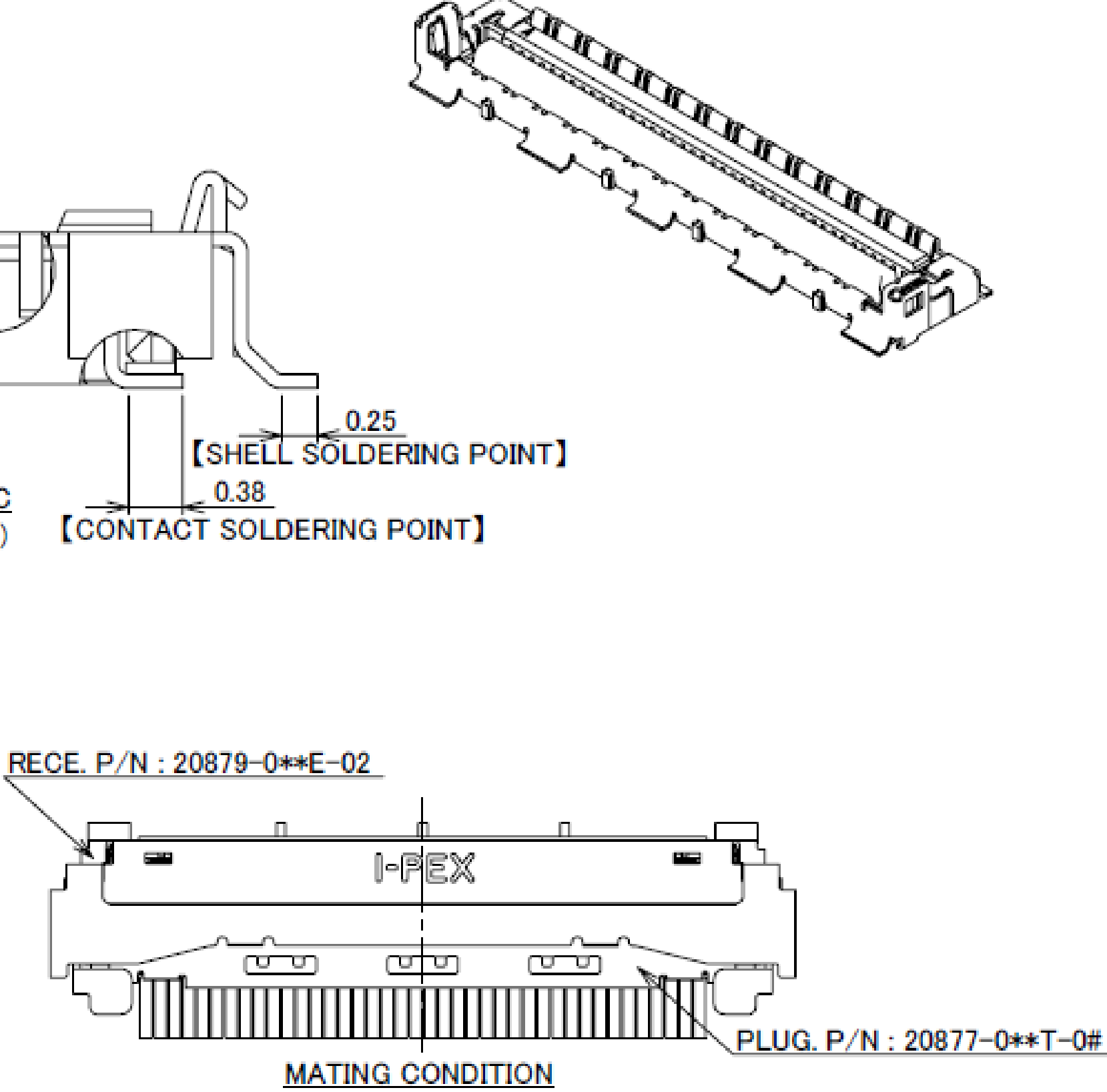
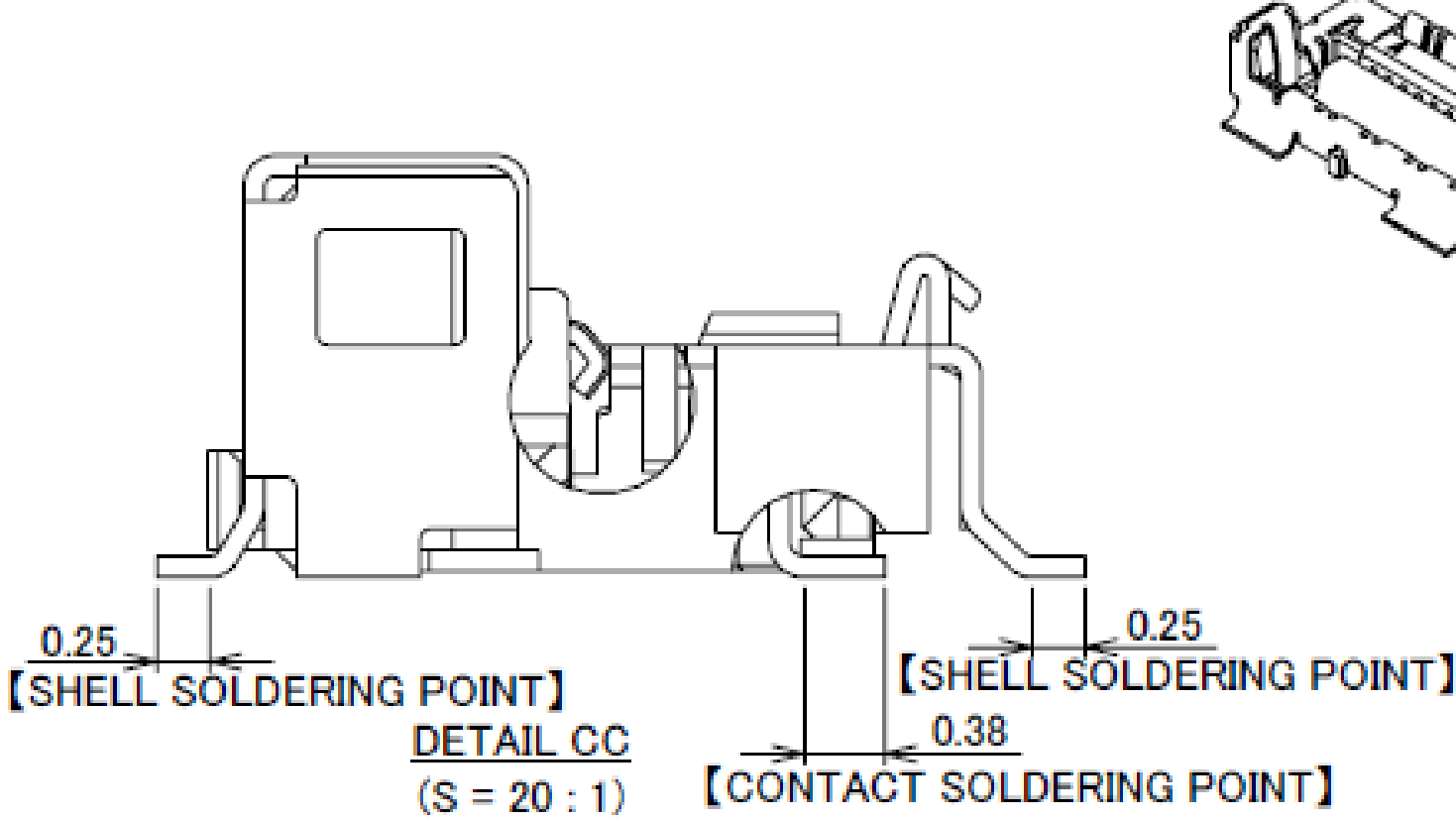
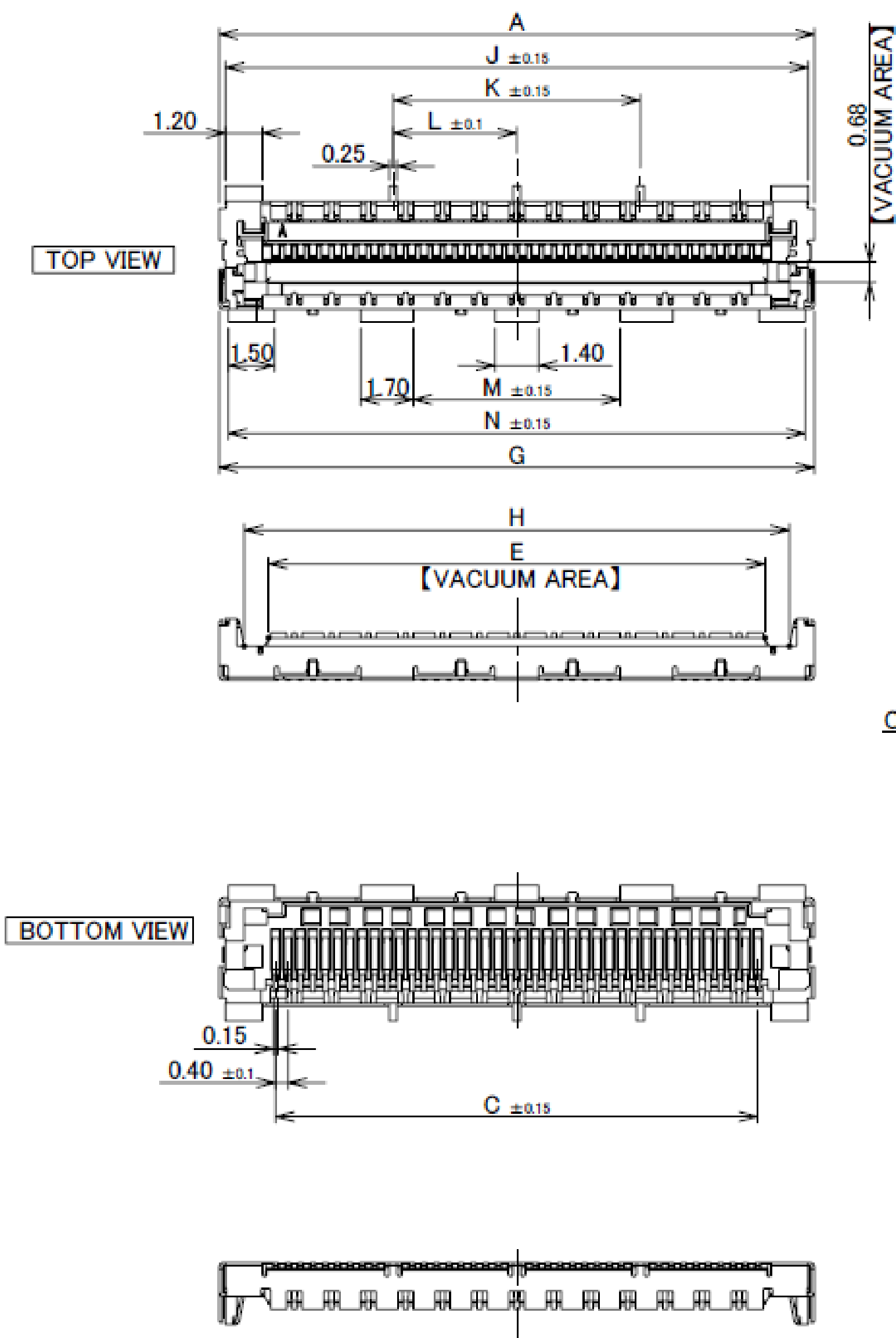
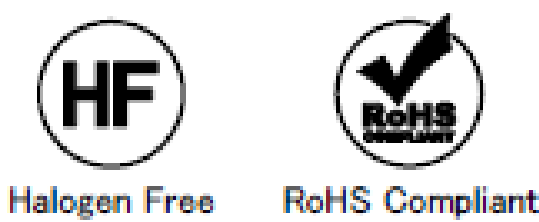


50P

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Recommended P/N		20879-0**E-01									
PART NO.	Pos.	A	C	E	G	H	J	K	L	M	N
20879-030E-02	30	15.27	11.60	12.07	15.27	13.65	14.87	4.00	-	7.09	14.69
20879-040E-02	40	19.27	15.60	16.07	19.27	17.65	18.87	8.00	4.00	6.70	18.69
20879-050E-02	50	23.27	19.60	20.07	23.27	21.65	22.87	14.40	3.60	8.70	22.69
20879-060E-02	60	27.27	23.60	24.07	27.27	25.65	26.87	17.60	-	10.70	26.69
20879-070E-02	70	31.27	27.60	28.07	31.27	29.65	30.87	20.00	-	11.50	30.69

02 TYPE

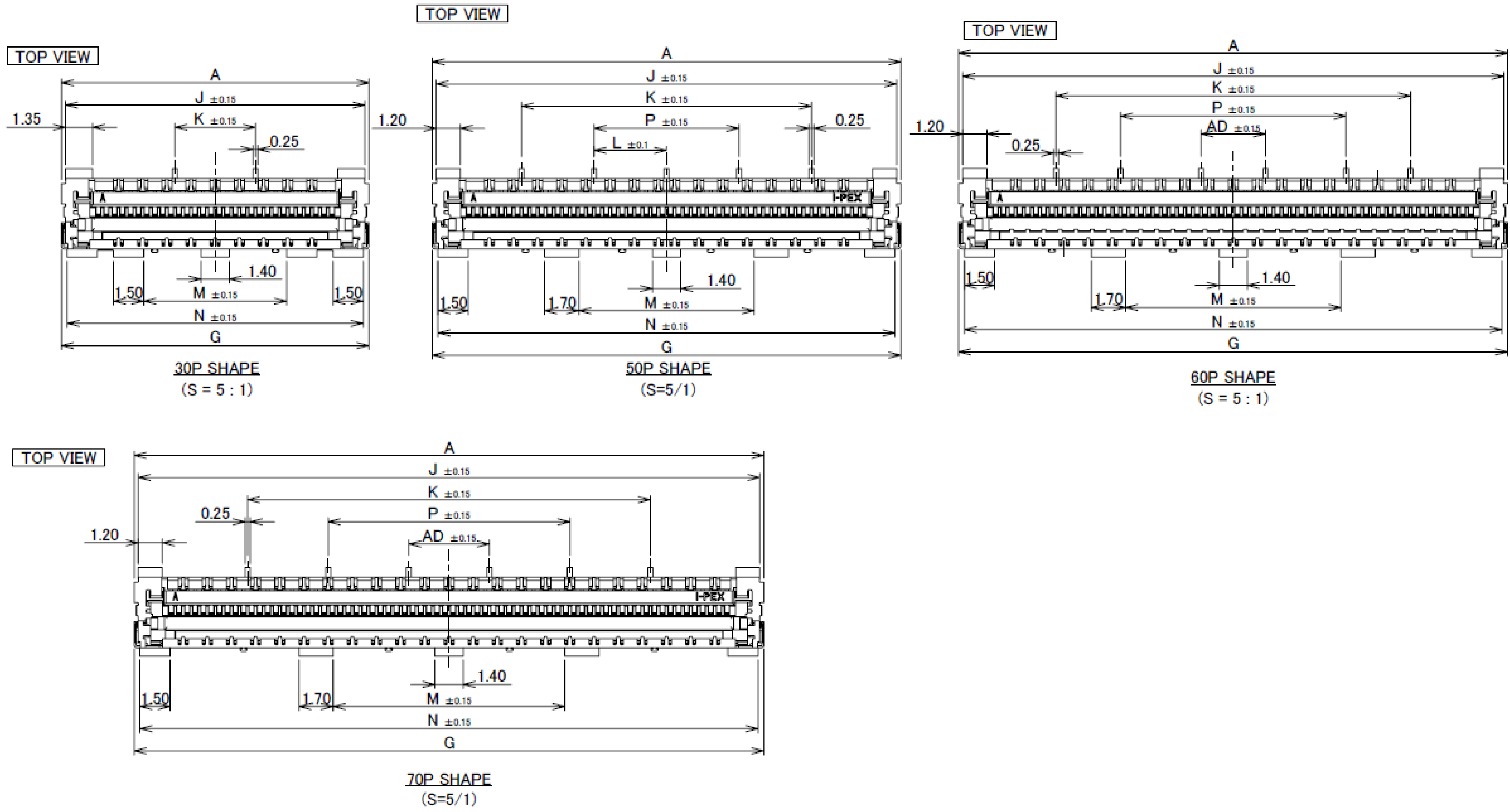
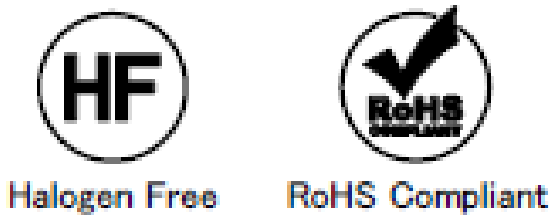


Rev.18

Receptacle Assembly

Recommended P/N		20879-0**E-01											
PART NO.	Pos.	A	C	E	G	H	J	K	L	M	N	P	AD
20879-030E-02	30	15.27	11.60	12.07	15.27	13.65	14.87	4.00	-	7.09	14.69	-	-
20879-040E-02	40	19.27	15.60	16.07	19.27	17.65	18.87	8.00	4.00	6.70	18.69	-	-
20879-050E-02	50	23.27	19.60	20.07	23.27	21.65	22.87	14.40	3.60	8.70	22.69	7.20	-
20879-060E-02	60	27.27	23.60	24.07	27.27	25.65	26.87	17.60	-	10.70	26.69	11.20	3.20
20879-070E-02	70	31.27	27.60	28.07	31.27	29.65	30.87	20.00	-	11.50	30.69	12.00	4.00

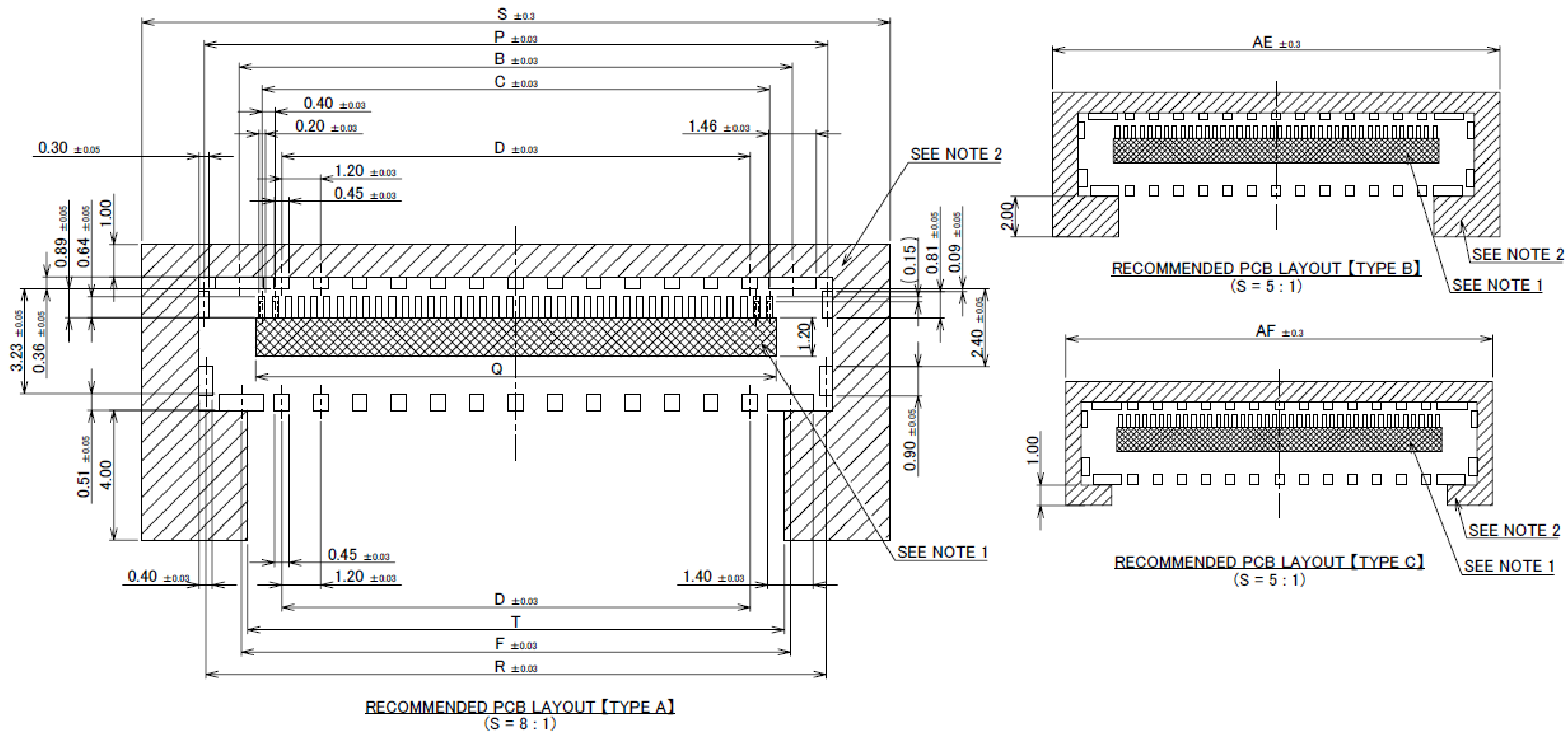
02 TYPE



Rev.18

PART No.	Pos.	B	C	D	F	P	Q	R	S	T	AE	AF
20879-030E-#1	30	13.01	11.60	9.60	12.88	15.17	12.00	15.07	19.00	12.50	18.00	17.00
20879-040E-#1	40	17.01	15.60	14.40	16.88	19.17	16.00	19.07	23.00	16.50	22.00	21.00
20879-060E-#1	60	25.01	23.60	21.60	24.88	27.17	24.00	27.07	31.00	24.50	30.00	29.00

PLUG PART No.	DUAL-HOOK PULL JIG	PCB LAYOUT
20877-0##T-01	USE	TYPE A
	UNUSED	TYPE B
20877-0##T-02	USE	TYPE A
	UNUSED	TYPE C
20877-0##T-03	-	TYPE C
	-	

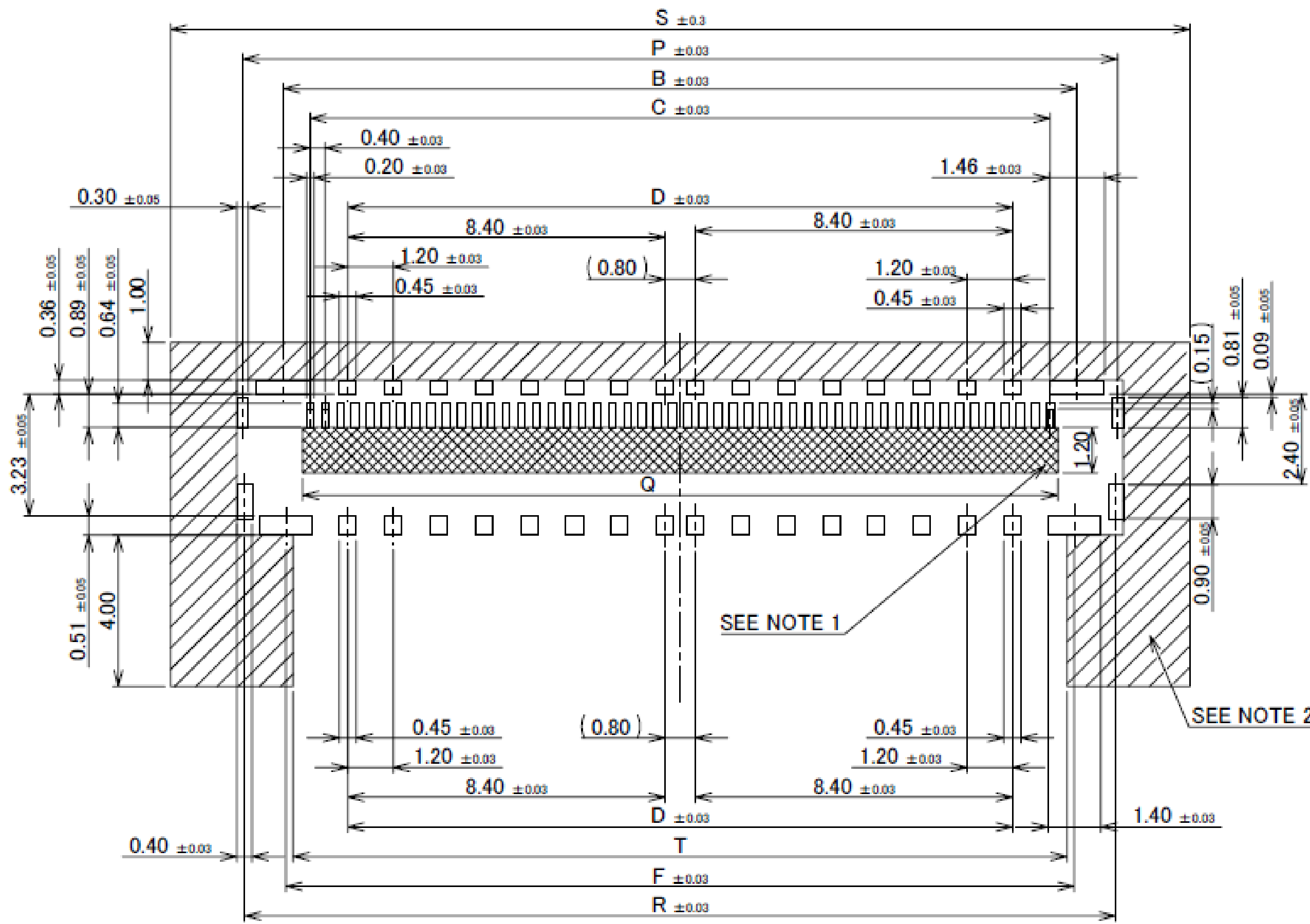


- NOTES.
1. SOLDER RESIST MUST BE APPLIED TO THIS AREA.
2. DO NOT MOUNT ANOTHER COMPONENT IN THIS AREA.
- THIS AREA VARIES DEPENDING ON WHETHER THE PULL JIG IS USED, AND THE PART NUMBER OF THE PLUG CABLE ASSEMBLY BEING USED. FOR DETAILS ON THE PULL JIG, PLEASE REFER TO HIM-18033.

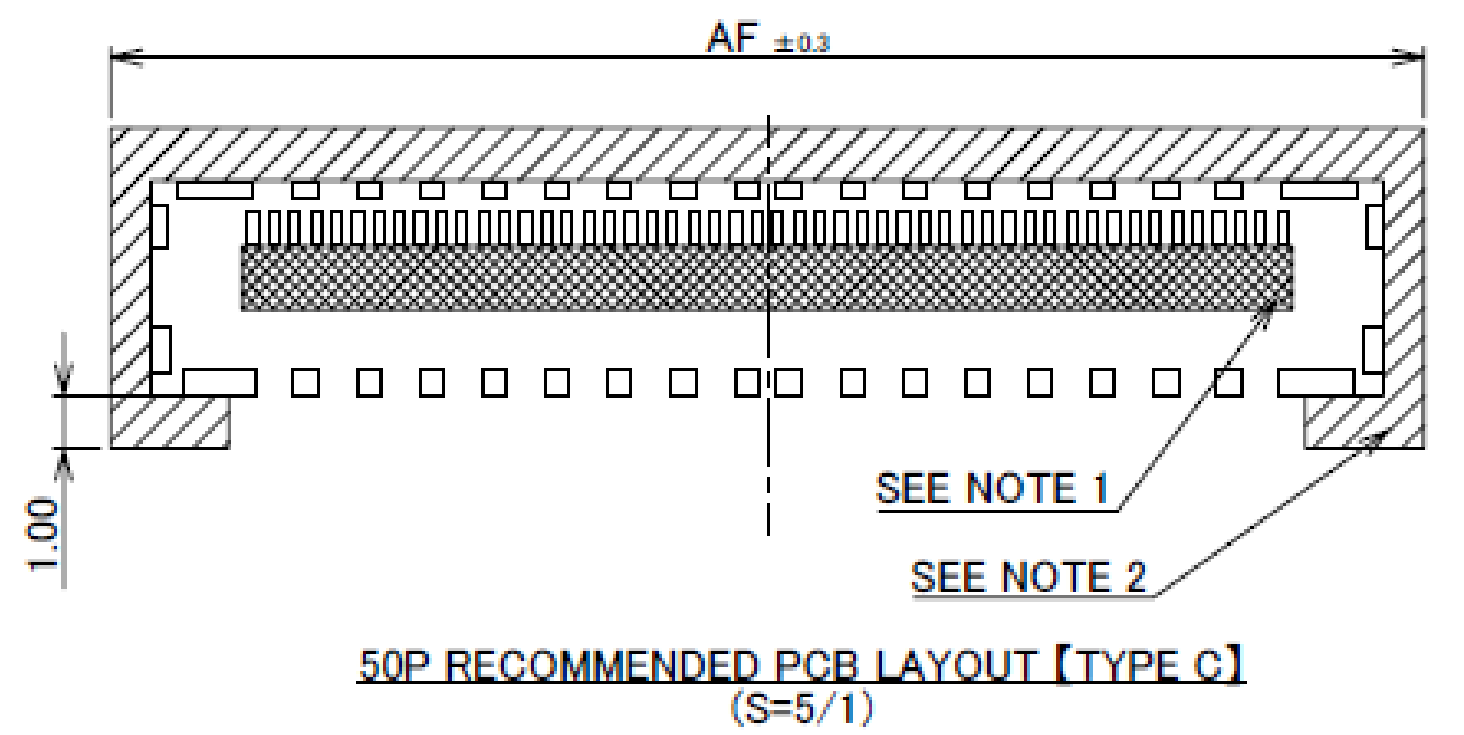
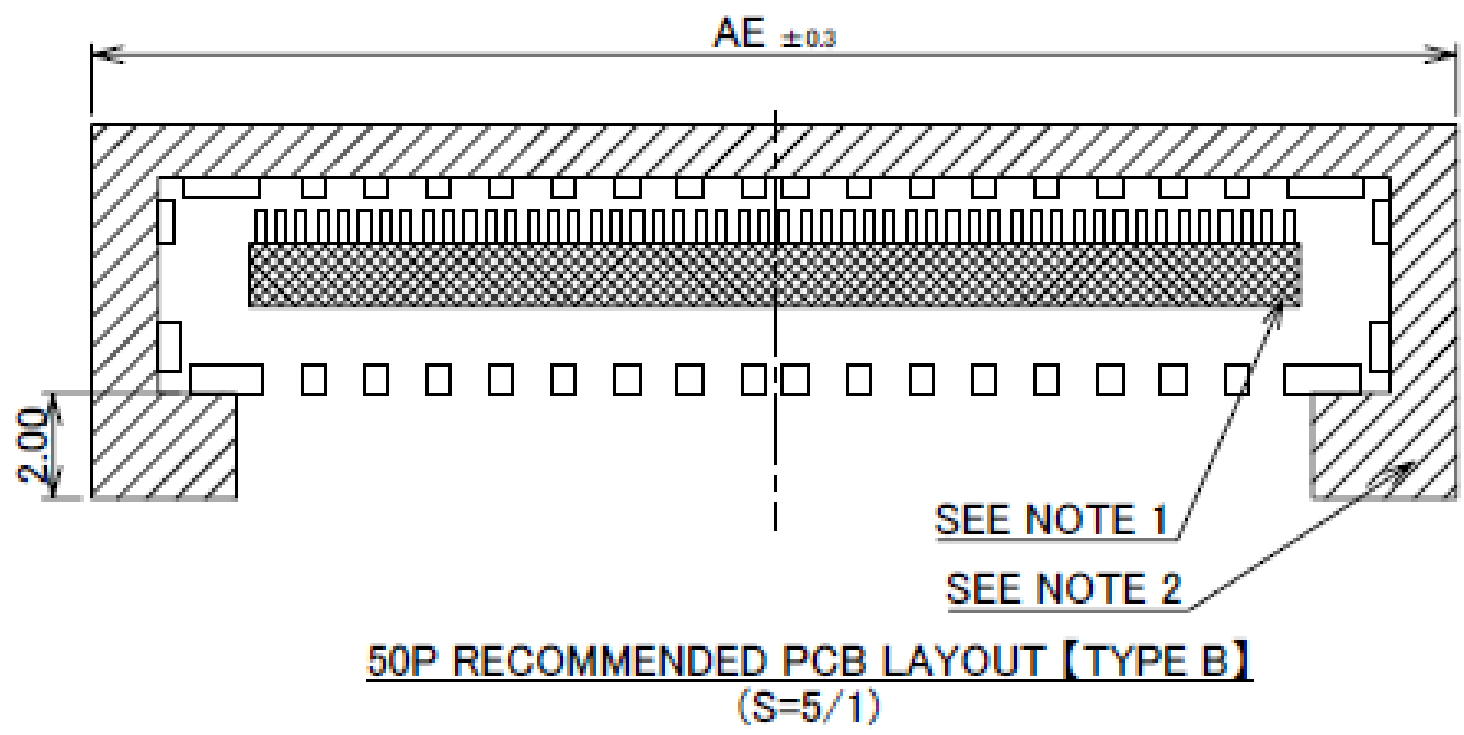
Rev.18

Receptacle Assembly

PART No.	Pos.	B	C	D	F	P	Q	R	S	T	AE	AF
20879-050E-#1	50	21.01	19.60	17.60	20.88	23.17	20.00	23.07	27.00	20.50	26.00	25.00



PLUG PART No.	DUAL-HOOK PULL JIG	PCB LAYOUT
20877-0##T-01	USE	TYPE A
	UNUSED	TYPE B
20877-0##T-02	USE	TYPE A
	UNUSED	TYPE C
20877-0##T-03	-	TYPE C
	-	TYPE C



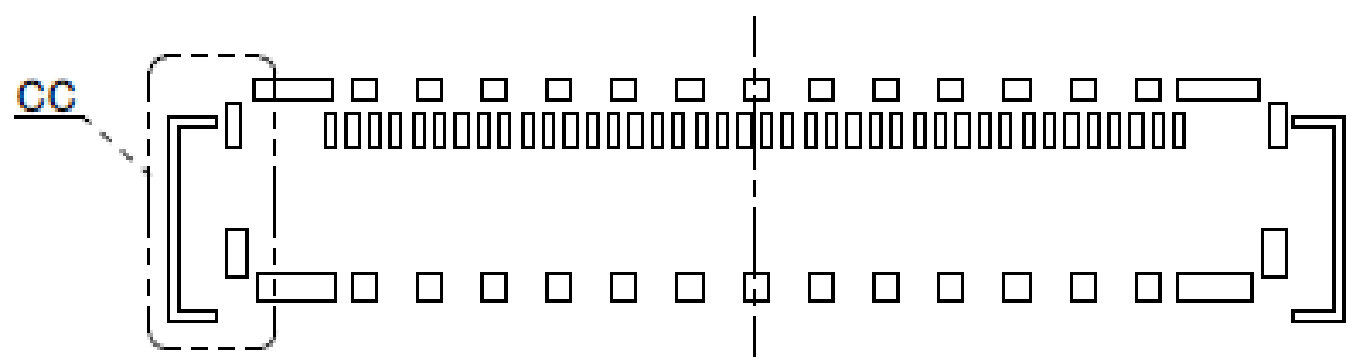
- NOTES.
- 1. SOLDER RESIST MUST BE APPLIED TO THIS AREA.
 - 2. DO NOT MOUNT ANOTHER COMPONENT IN THIS AREA.
- THIS AREA VARIES DEPENDING ON WHETHER THE PULL JIG IS USED, AND THE PART NUMBER OF THE PLUG CABLE ASSEMBLY BEING USED. FOR DETAILS ON THE PULL JIG, PLEASE REFER TO HIM-18033.

Rev.18

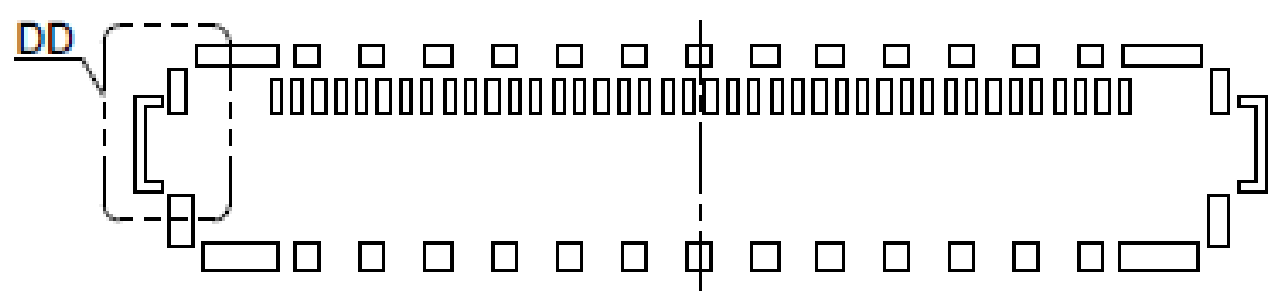
PART No.	Pos.
20879-030E-#1	30
20879-040E-#1	40
20879-050E-#1	50
20879-060E-#1	60

#1 TYPE

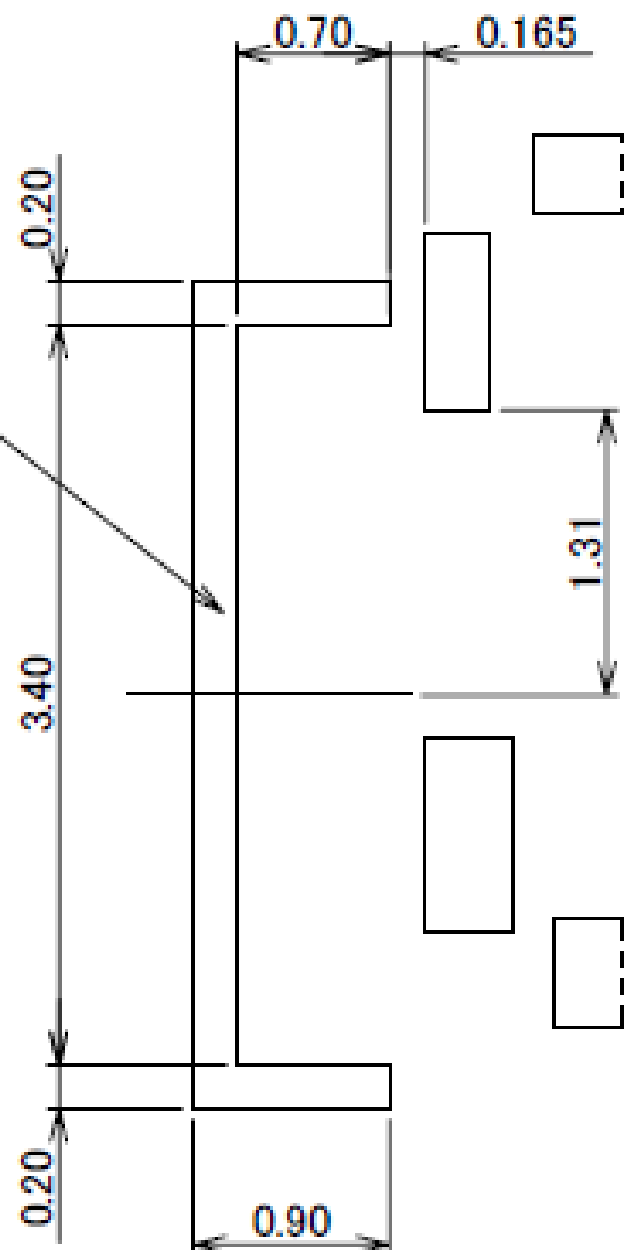
With LOCK COVER



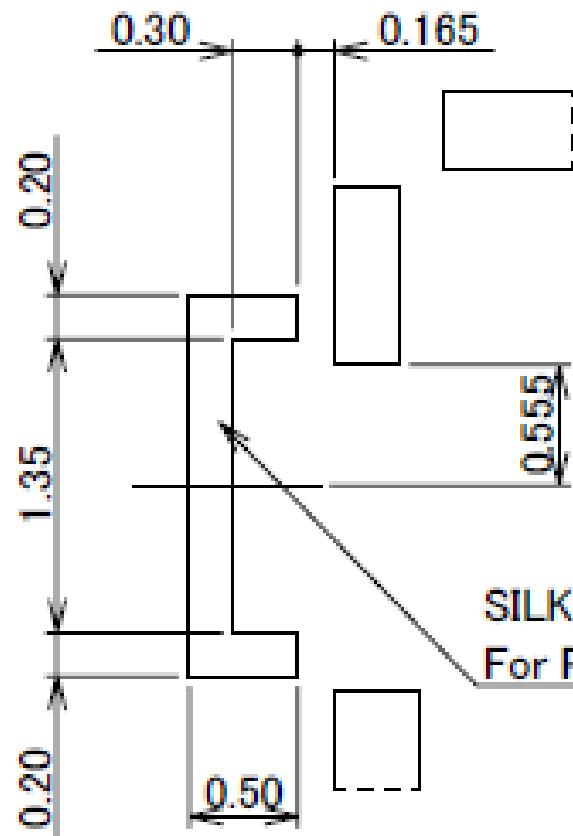
Without LOCK COVER & With PULL TAPE HOLDER



SILK PRINT For PLUG INSERTION CHECK



SILK PRINT For PLUG INSERTION CHECK

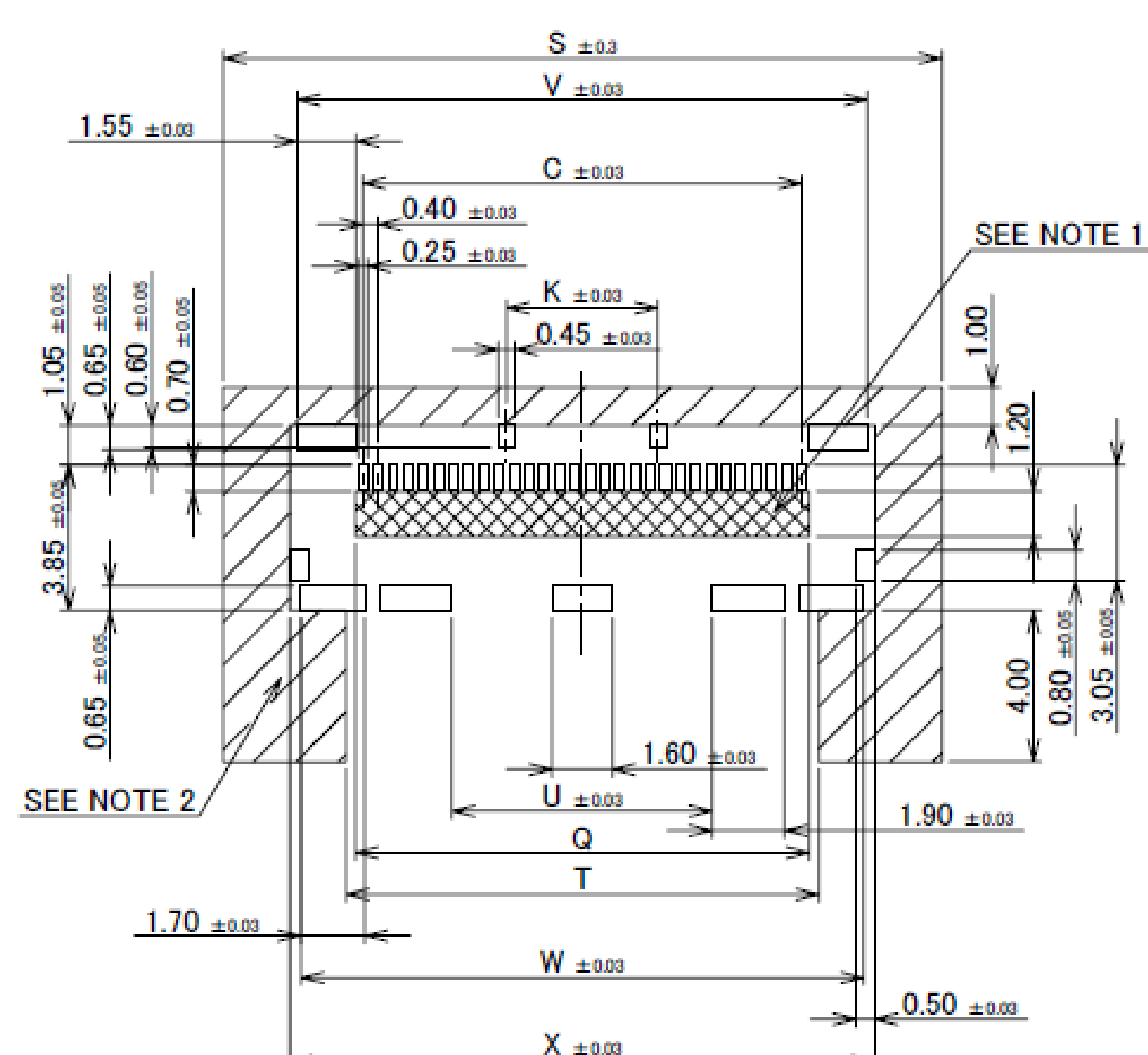


Rev.18

Receptacle Assembly

PART No.	Pos.	C	K	L	Q	S	T	U	V	W	X	AE	AF
20879-030F-02	30	11.60	4.00	-	12.00	19.00	12.50	6.89	15.07	14.89	15.47	18.00	17.00

02 TYPE

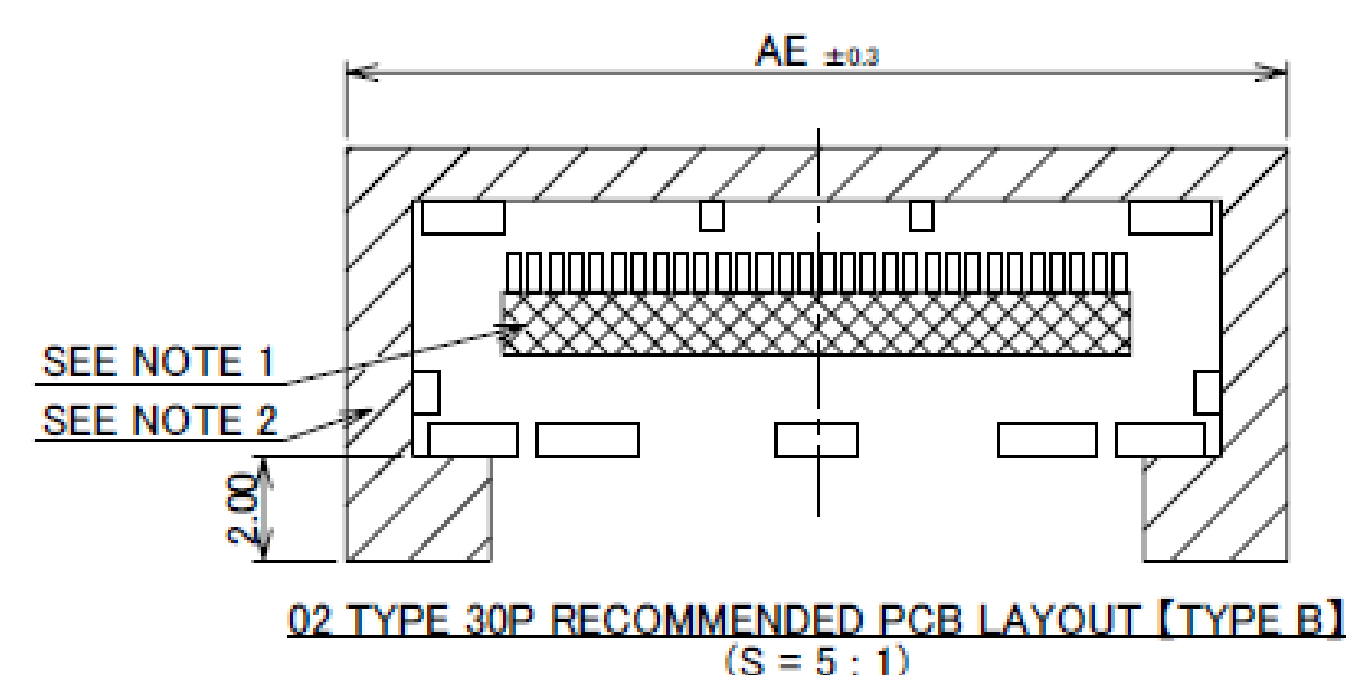


02 TYPE 30P RECOMMENDED PCB LAYOUT [TYPE A]
(S = 5 : 1)

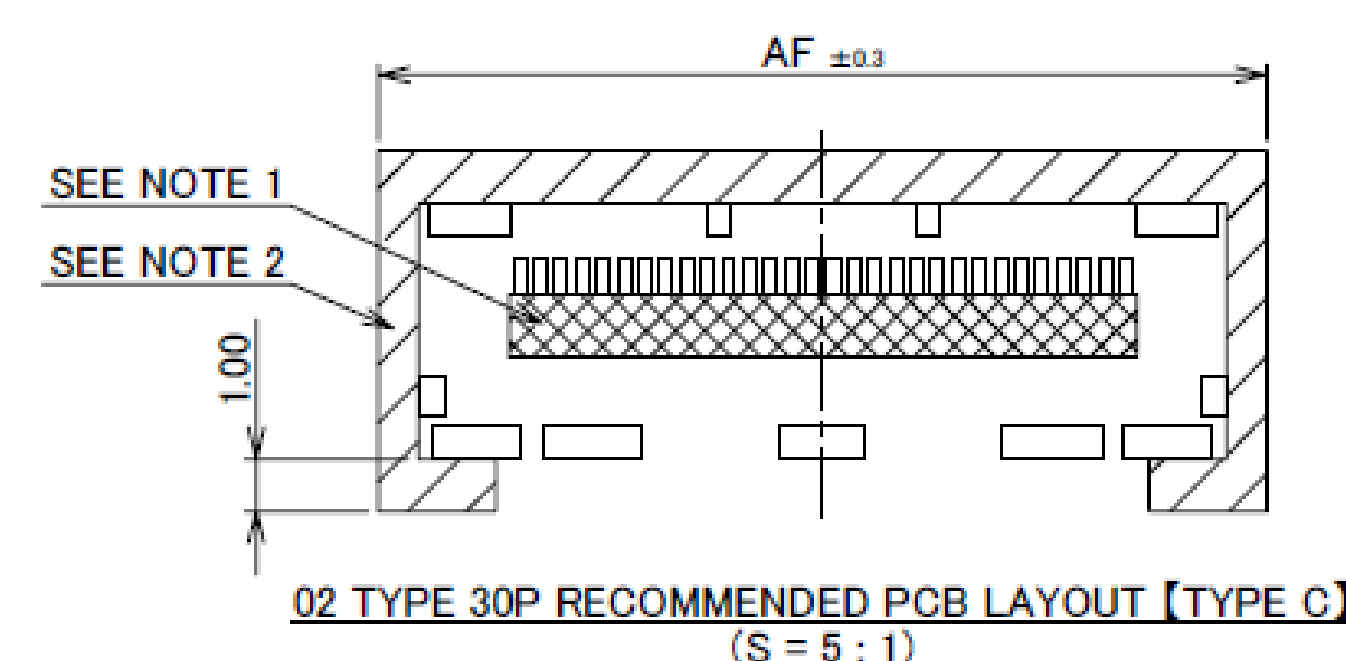
NOTES

- NOTES:
1. SOLDER RESIST MUST BE APPLIED TO THIS AREA.
 2. DO NOT MOUNT ANOTHER COMPONENT IN THIS AREA.
- THIS AREA VARIES DEPENDING ON WHETHER THE PULL JIG IS USED,
AND THE PART NUMBER OF THE PLUG CABLE ASSEMBLY BEING USED.
FOR DETAILS ON THE PULL JIG PLEASE REFER TO HIM-18033

PLUG PART No.	DUAL-HOOK PULL JIG	PCB LAYOUT
20877-0##T-01	USE	TYPE A
	UNUSED	TYPE B
20877-0##T-02	USE	TYPE A
	UNUSED	TYPE C
20877-0##T-03	-	TYPE C
	-	



02 TYPE 30P RECOMMENDED PCB LAYOUT [TYPE B]
(S = 5 : 1)

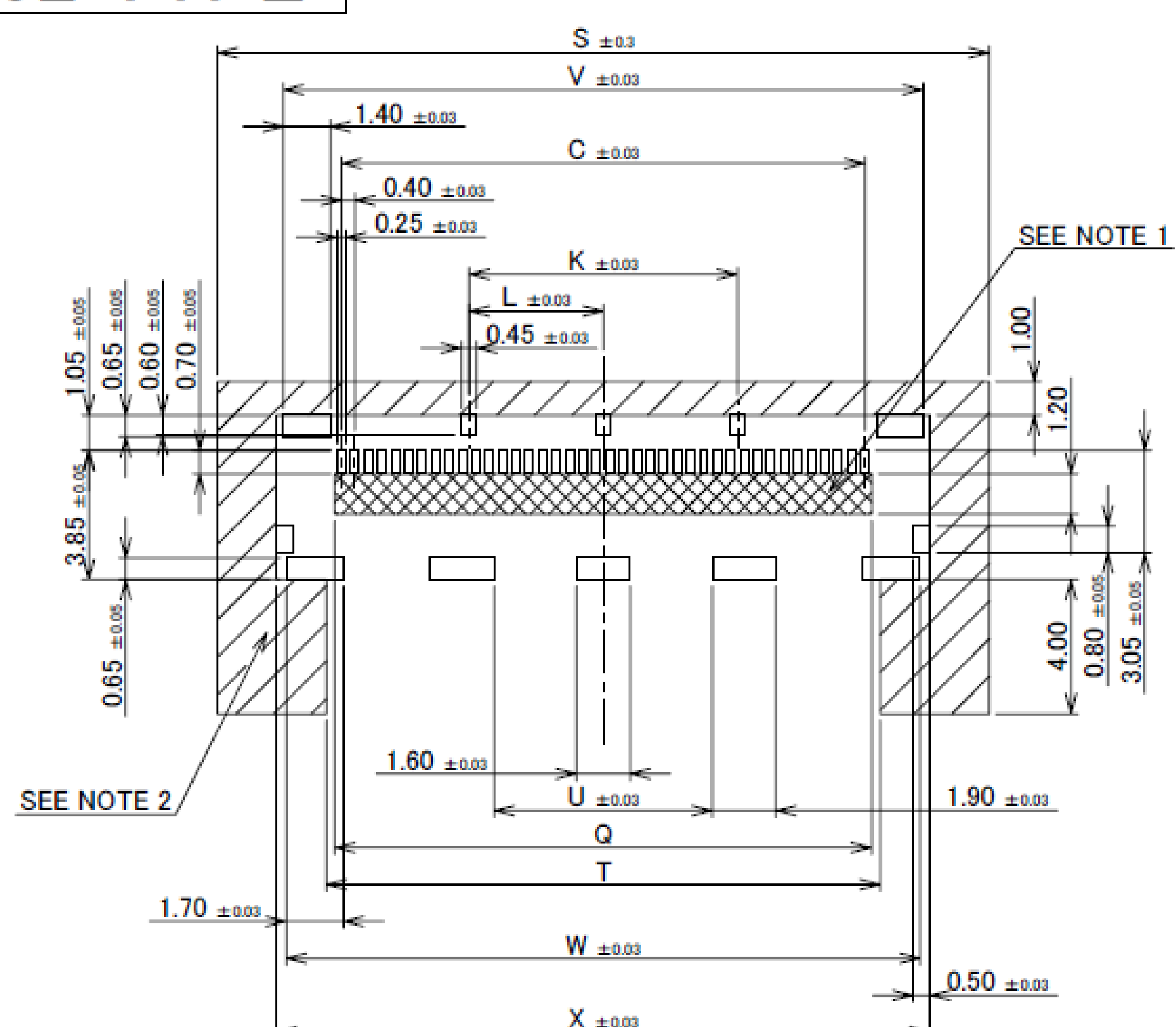


02 TYPE 30P RECOMMENDED PCB LAYOUT 【TYPE C】
(S = 5 : 1)

Rev.18

PART No.	Pos.	C	K	L	Q	S	T	U	V	W	X	AE	AF
20878-040E-02	40	15.60	8.00	4.00	16.00	23.00	16.50	6.50	19.07	18.89	19.47	22.00	21.00

02 TYPE

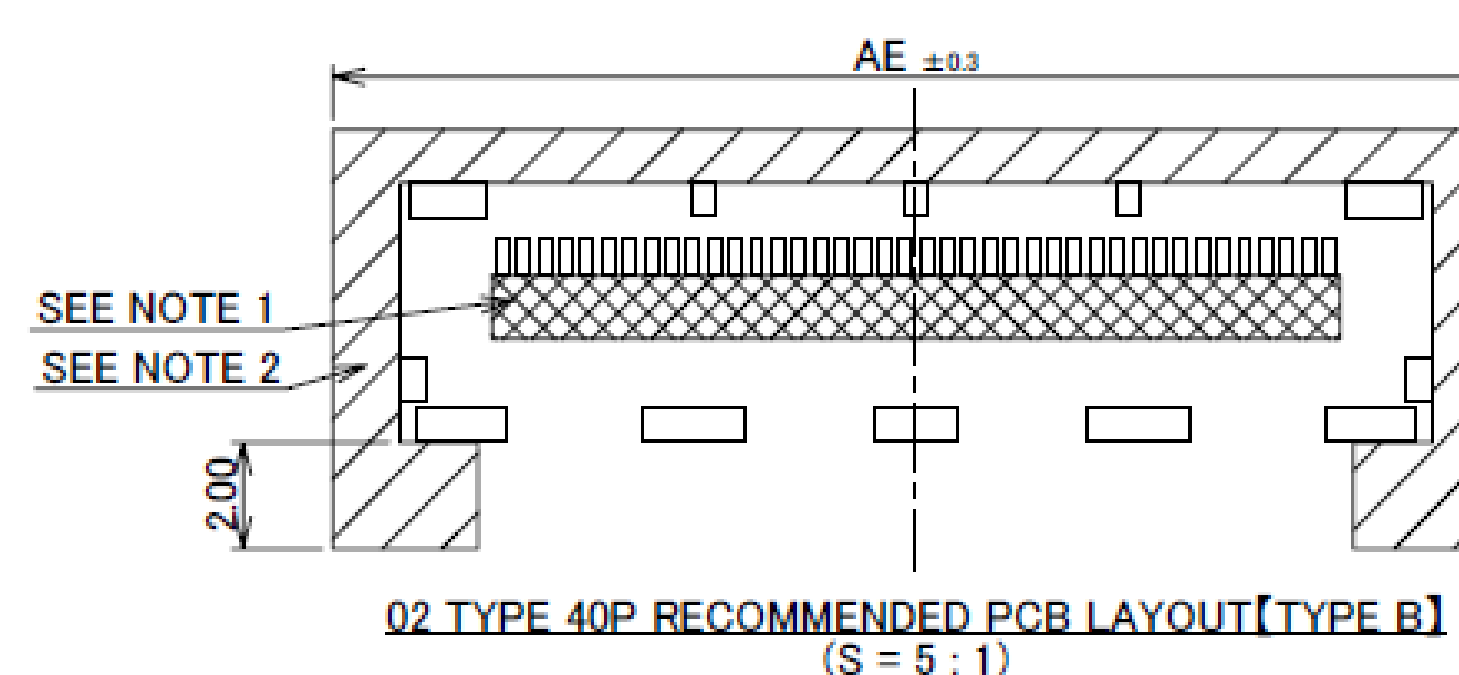


02 TYPE 40P RECOMMENDED PCB LAYOUT【TYPE A】
(S = 5 : 1)

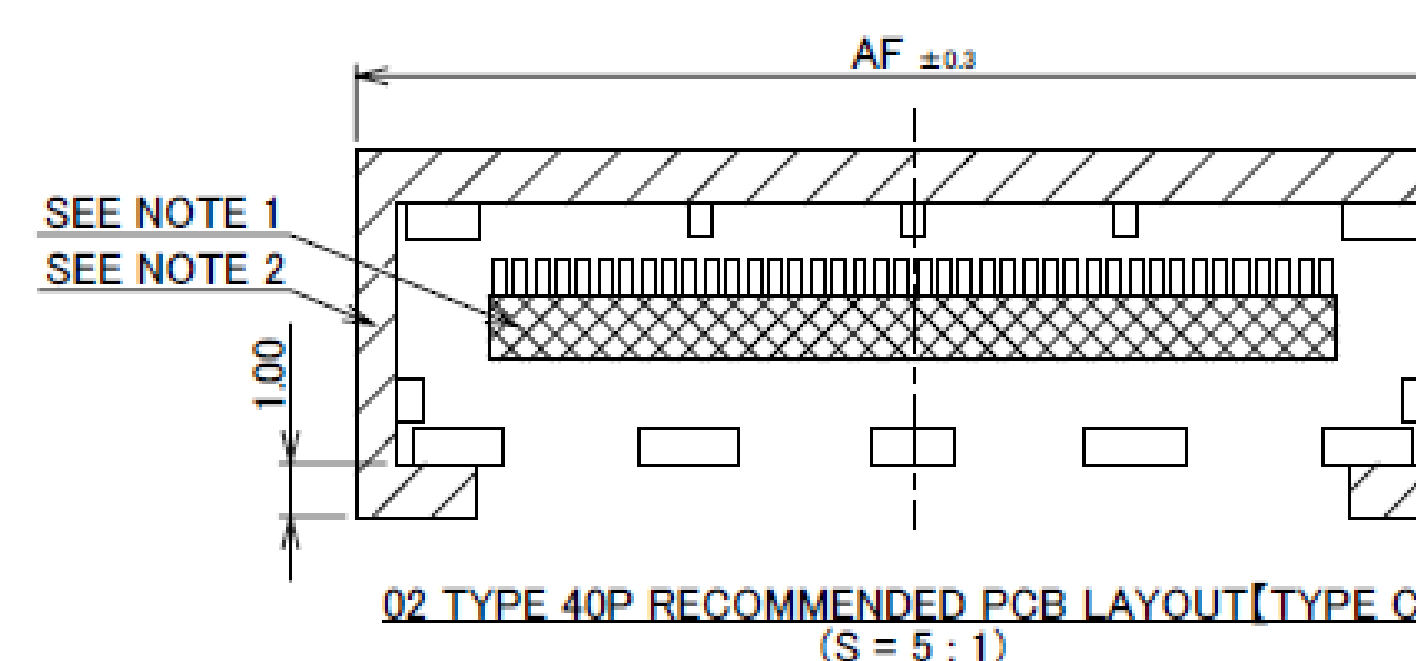
NOTES

- NOTES:
1. SOLDER RESIST MUST BE APPLIED TO THIS AREA.
 2. DO NOT MOUNT ANOTHER COMPONENT IN THIS AREA.
- THIS AREA VARIES DEPENDING ON WHETHER THE PULL JIG IS USED,
AND THE PART NUMBER OF THE PLUG CABLE ASSEMBLY BEING USED.
FOR DETAILS ON THE PULL JIG, PLEASE REFER TO HIM-18033.

PLUG PART No.	DUAL-HOOK PULL JIG	PCB LAYOUT
20877-0##T-01	USE	TYPE A
	UNUSED	TYPE B
20877-0##T-02	USE	TYPE A
	UNUSED	TYPE C
20877-0##T-03	-	TYPE C
	-	



02 TYPE 40P RECOMMENDED PCB LAYOUT【TYPE B】



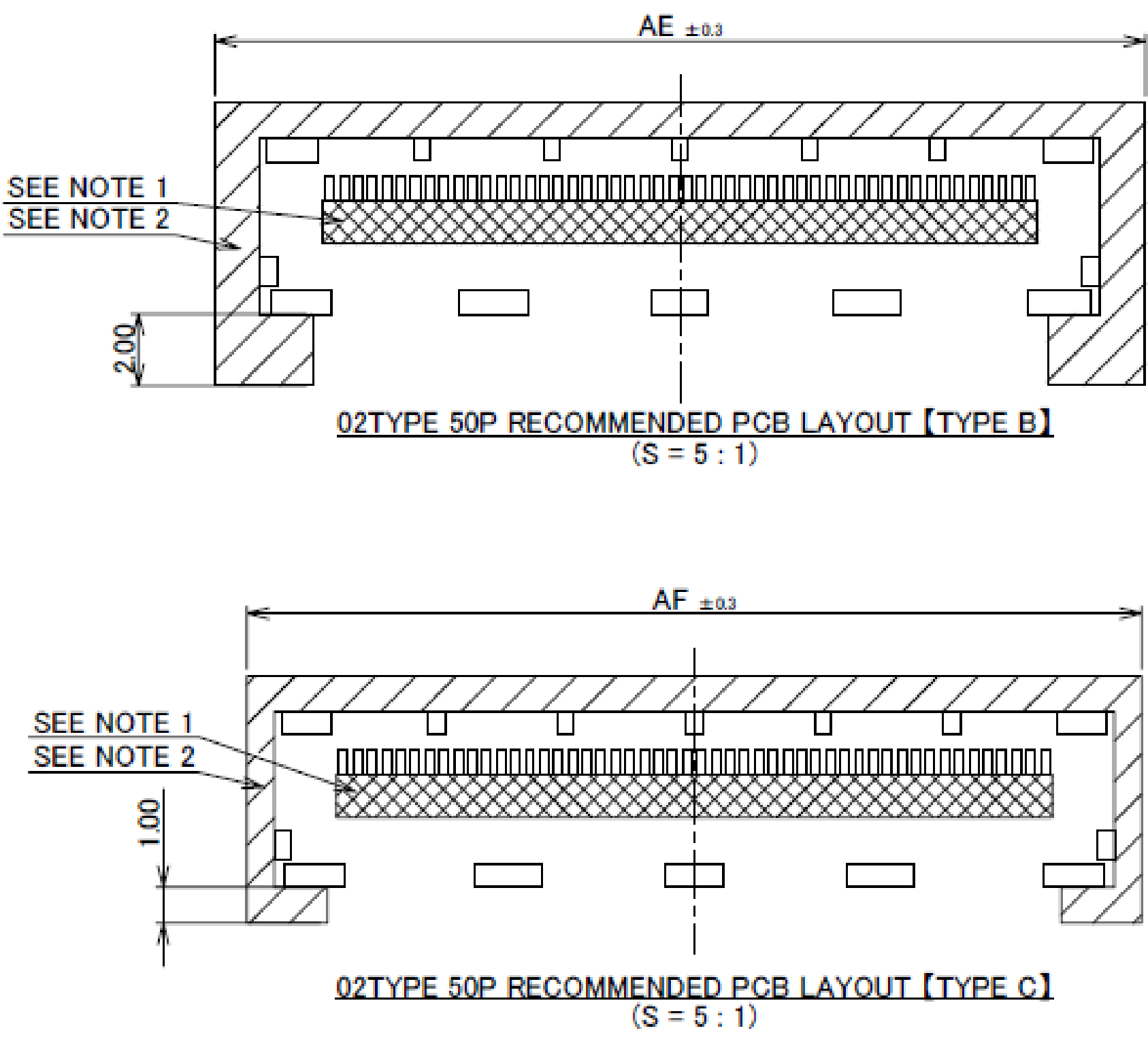
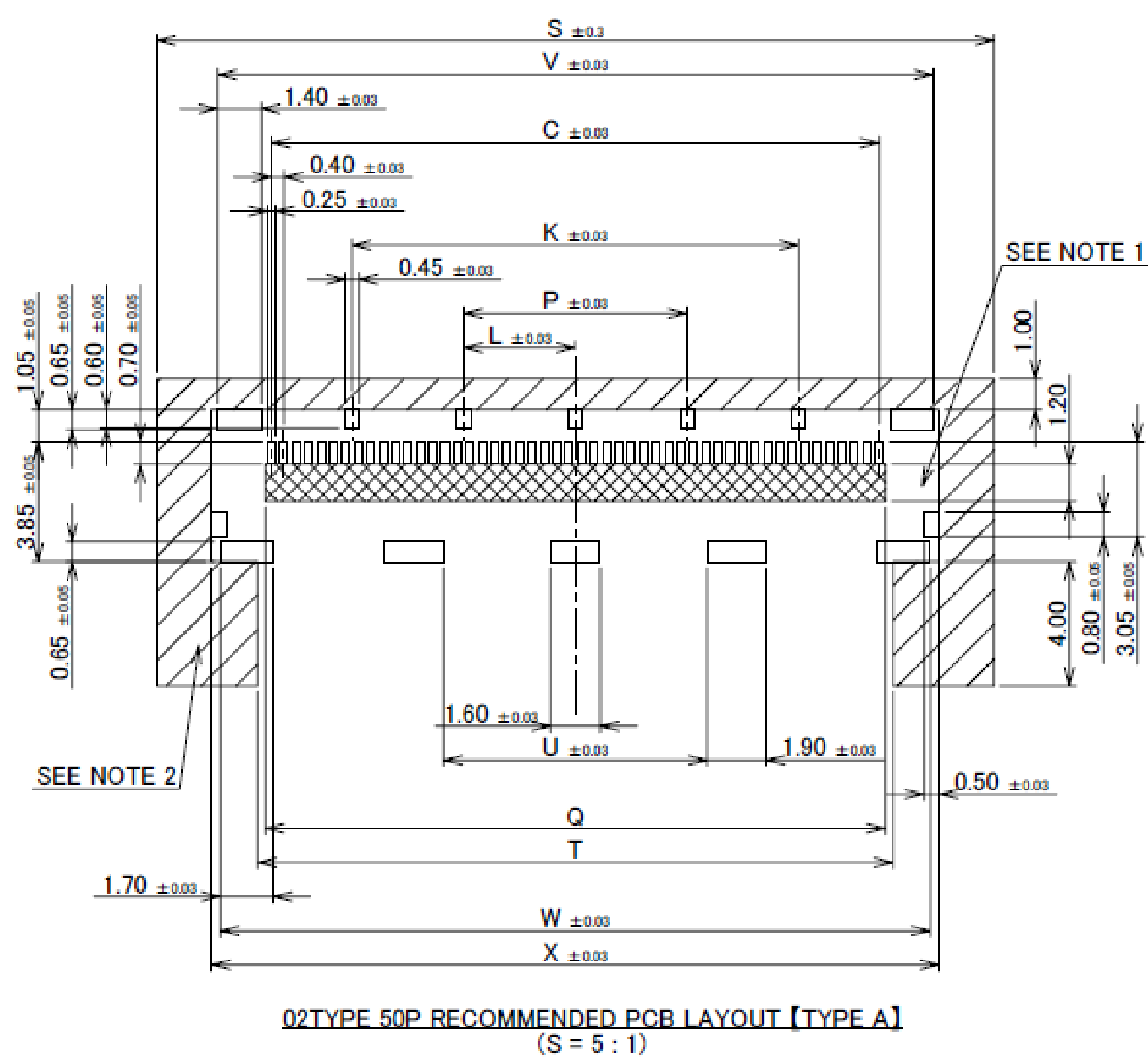
02 TYPE 40P RECOMMENDED PCB LAYOUT [TYPE C]

Rev.18

Receptacle Assembly

PART No.	Pos.	C	K	L	P	Q	S	T	U	V	W	X	AE	AF
20879-050E-02	50	19.60	14.40	3.60	7.20	20.00	27.00	20.50	8.50	23.07	22.89	23.47	26.00	25.00

02 TYPE

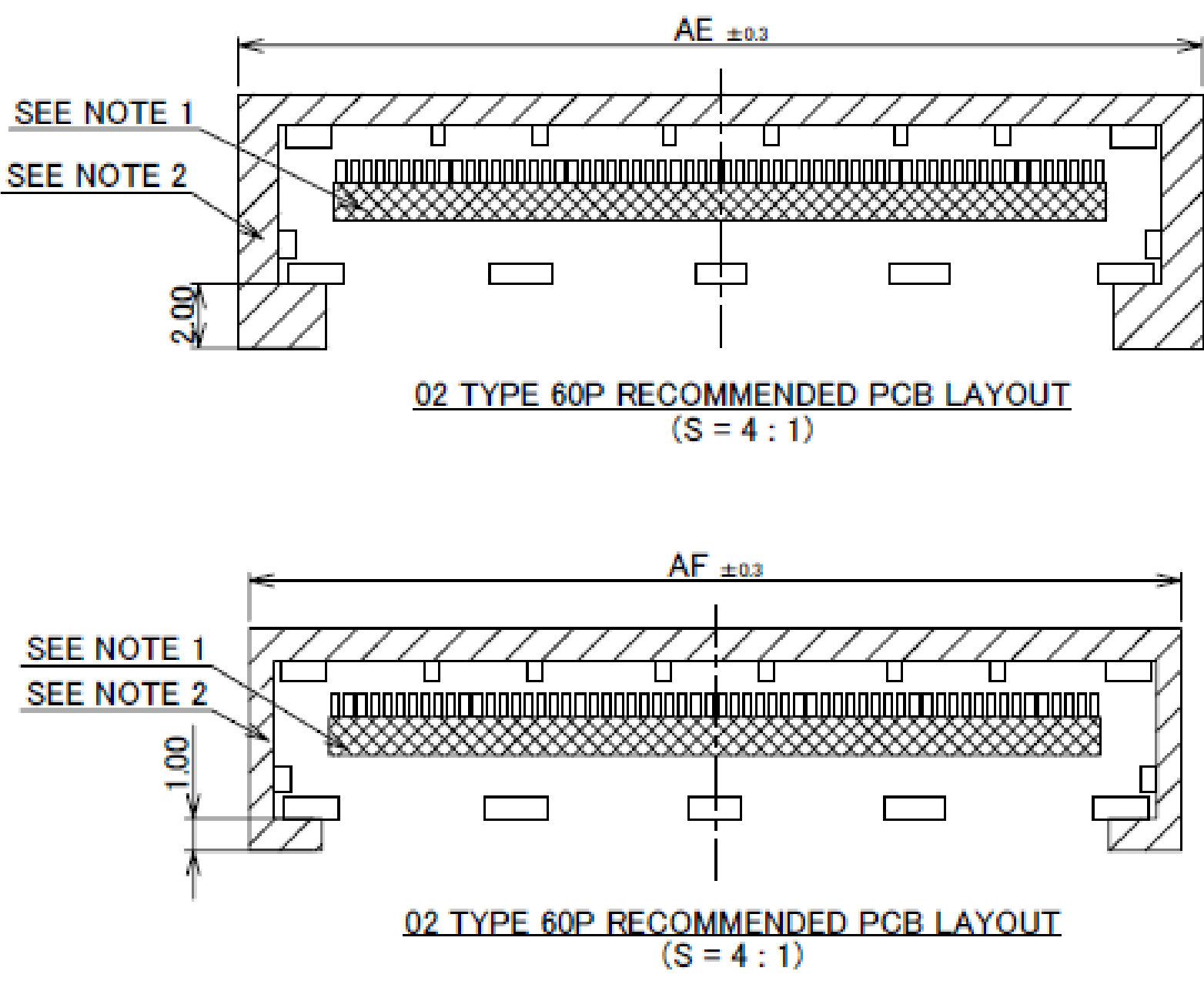
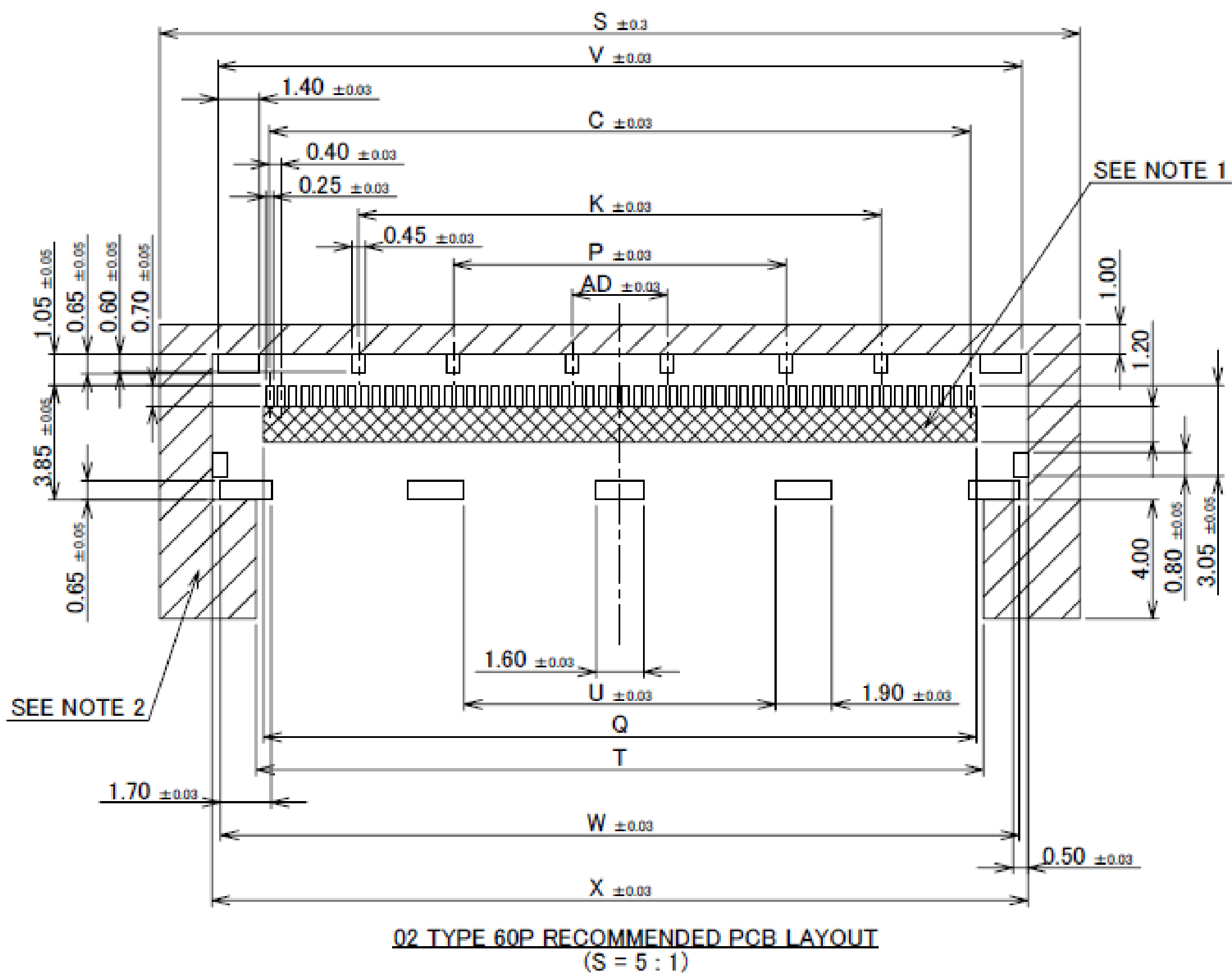


NOTES.
1. SOLDER RESIST MUST BE APPLIED TO THIS AREA.
2. DO NOT MOUNT ANOTHER COMPONENT IN THIS AREA.
THIS AREA VARIES DEPENDING ON WHETHER THE PULL JIG IS USED,
AND THE PART NUMBER OF THE PLUG CABLE ASSEMBLY BEING USED.
FOR DETAILS ON THE PULL JIG, PLEASE REFER TO HIM-18033.

Rev.18

PART No.	Pos.	C	K	L	P	Q	S	T	U	V	W	X	AD	AE	AF
20879-060E-02	60	23.60	17.60	-	11.20	24.00	31.00	24.50	10.50	27.07	26.89	27.47	3.20	30.00	29.00

02 TYPE



NOTES.
1. SOLDER RESIST MUST BE APPLIED TO THIS AREA.
2. DO NOT MOUNT ANOTHER COMPONENT IN THIS AREA.
THIS AREA VARIES DEPENDING ON WHETHER THE PULL JIG IS USED,
AND THE PART NUMBER OF THE PLUG CABLE ASSEMBLY BEING USED.
FOR DETAILS ON THE PULL JIG, PLEASE REFER TO HIM-18033.

Rev.18

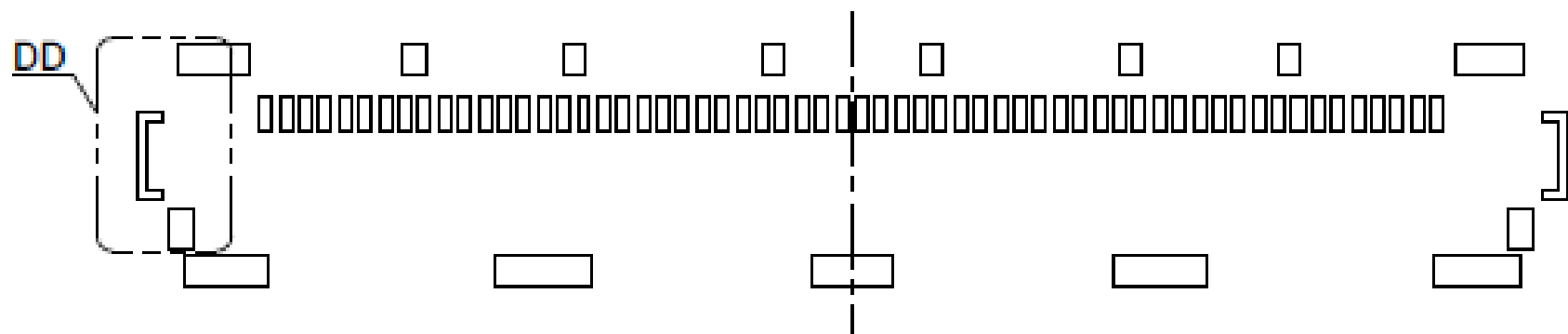
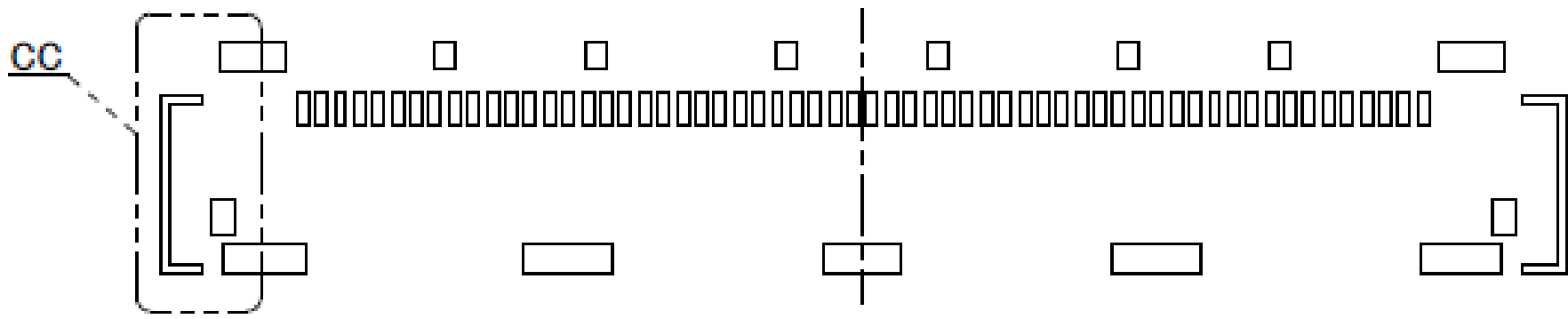
Receptacle Assembly

PART No.	Pos.
20879-030E-02	30
20879-040E-02	40
20879-050E-02	50
20879-060E-02	60
20879-070E-02	70

02 TYPE

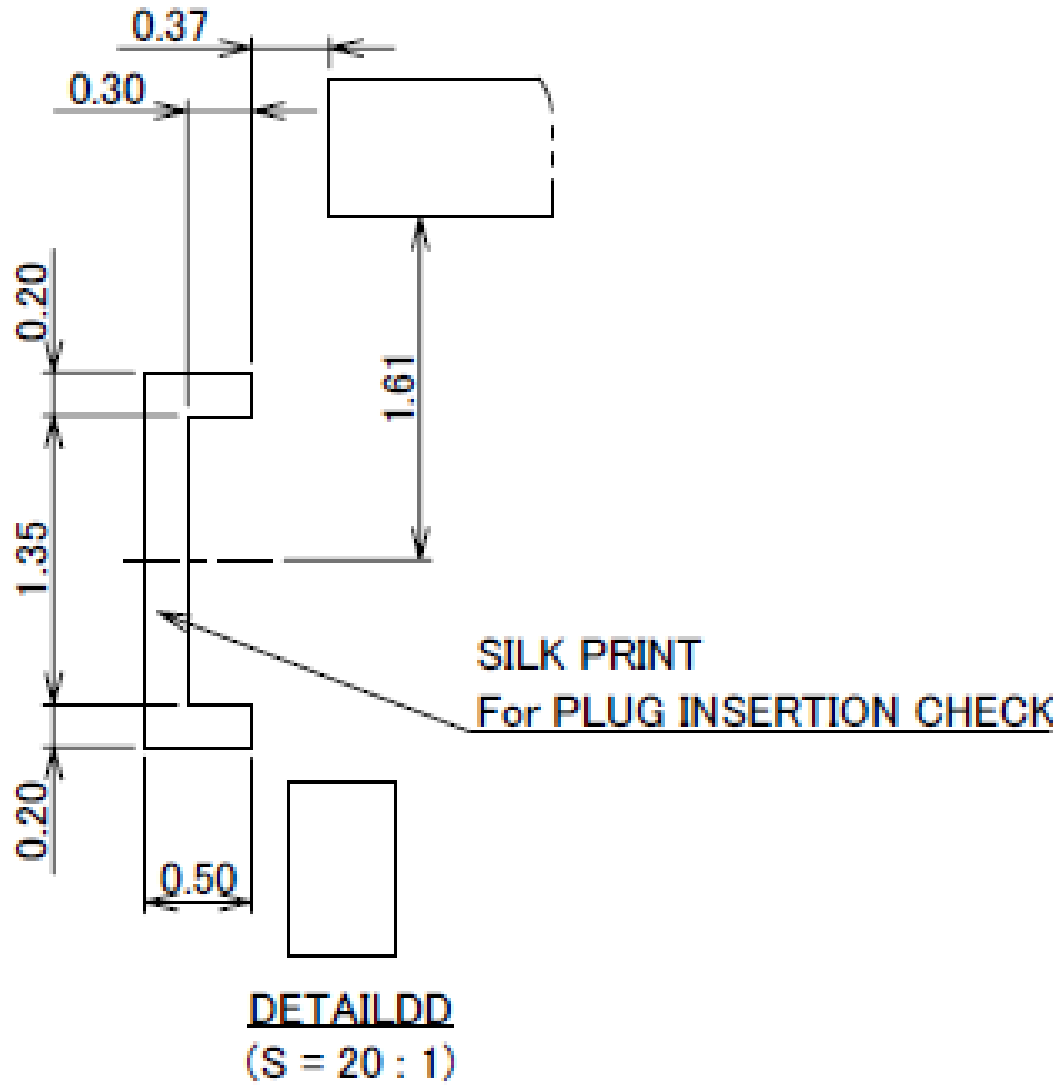
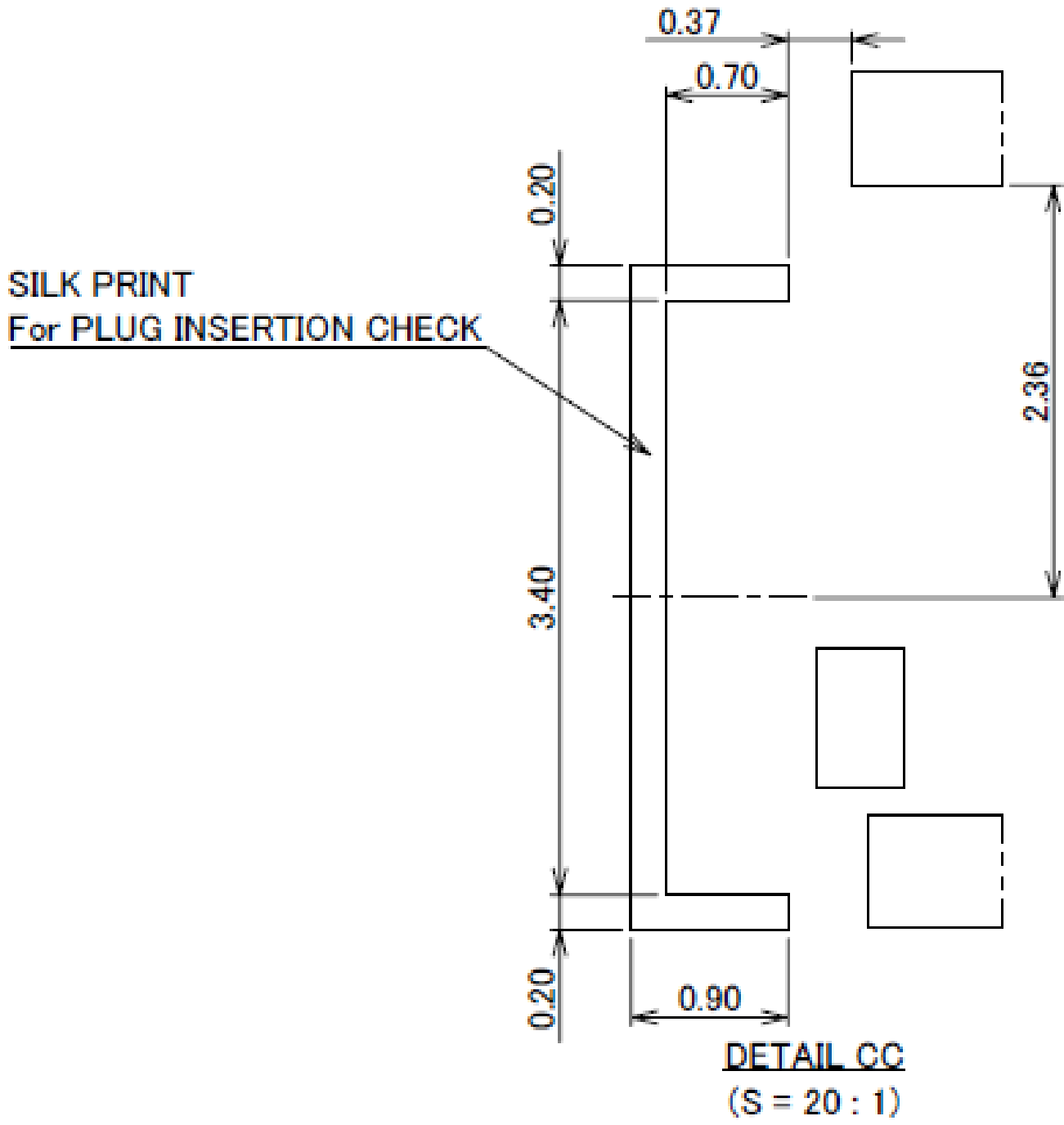
With LOCK COVER

Without LOCK COVER &
With PULL TAPE HOLDER



RECOMMENDED SILK PRINT For With LOCK COVER
(S = 5 : 1)

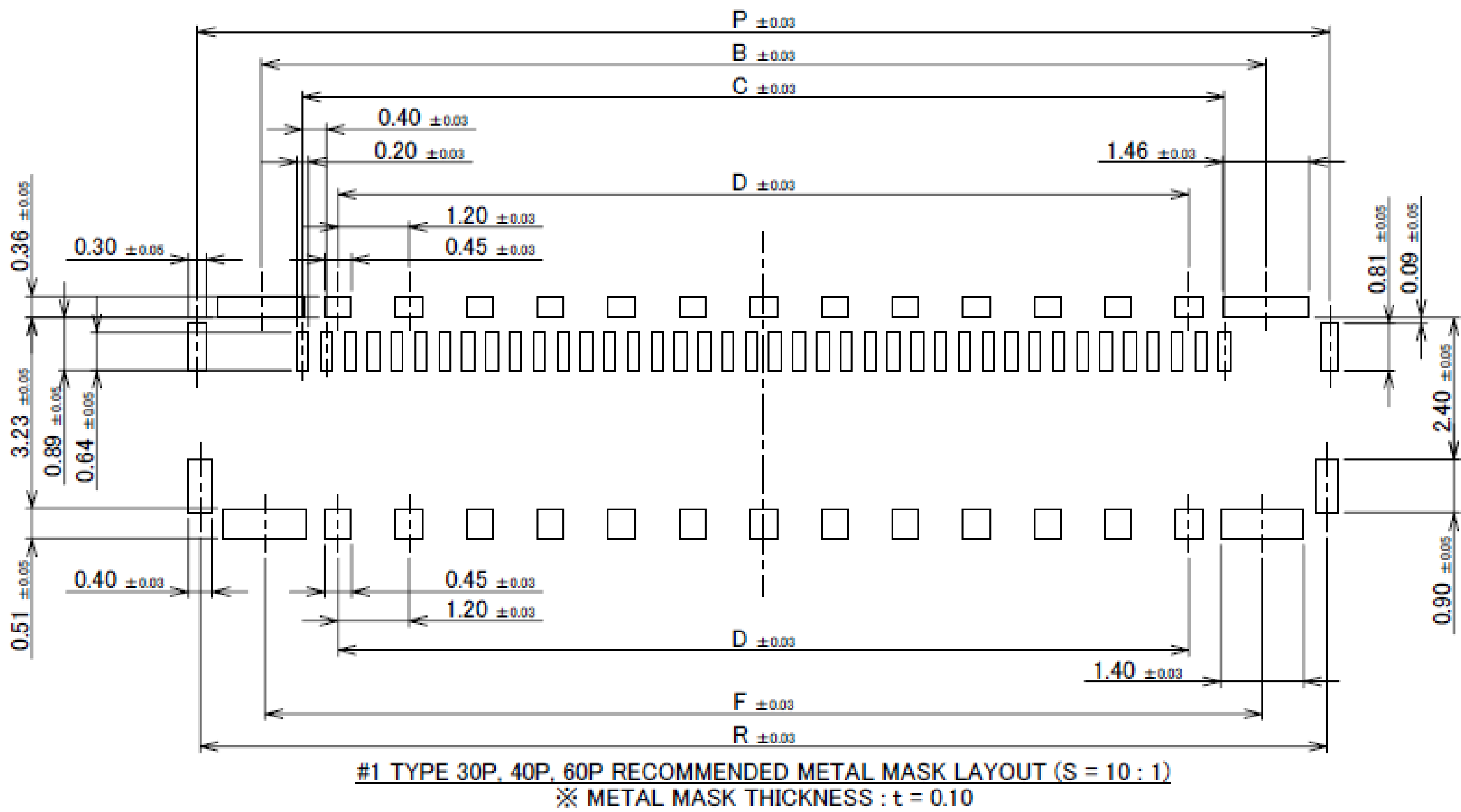
RECOMMENDED SILK PRINT For Without LOCK COVER
(S = 5 : 1)



Rev.18

PART No.	Pos.	B	C	D	F	P	R
20879-030E-#1	30	13.01	11.60	9.60	12.88	15.17	15.07
20879-040E-#1	40	17.01	15.60	14.40	16.88	19.17	19.07
20879-060E-#1	60	25.01	23.60	21.60	24.88	27.17	27.07

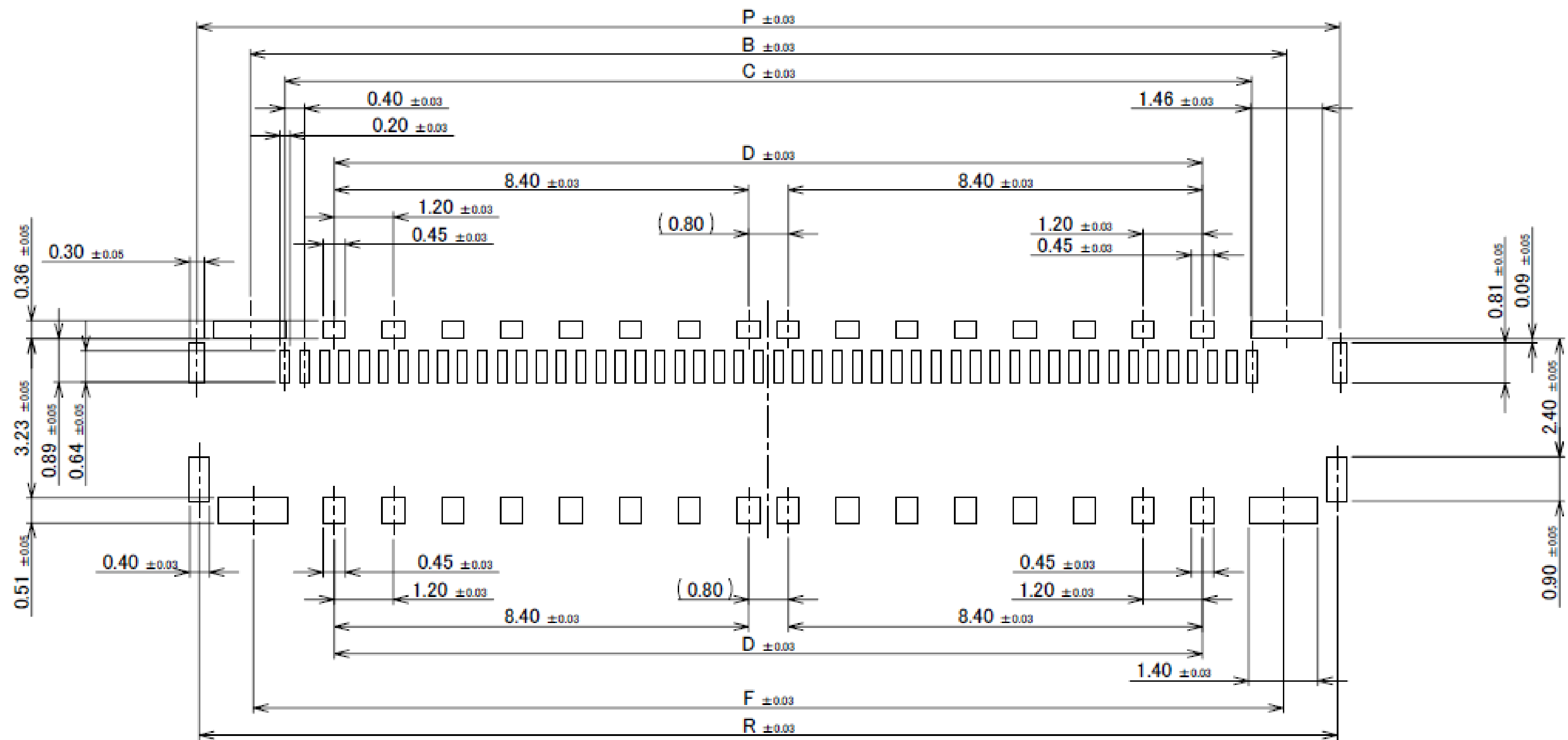
#1 TYPE



Receptacle Assembly

PART No.	Pos.	B	C	D	F	P	R
20879-050E-#1	50	21.01	19.60	17.60	20.88	23.17	23.07

#1 TYPE

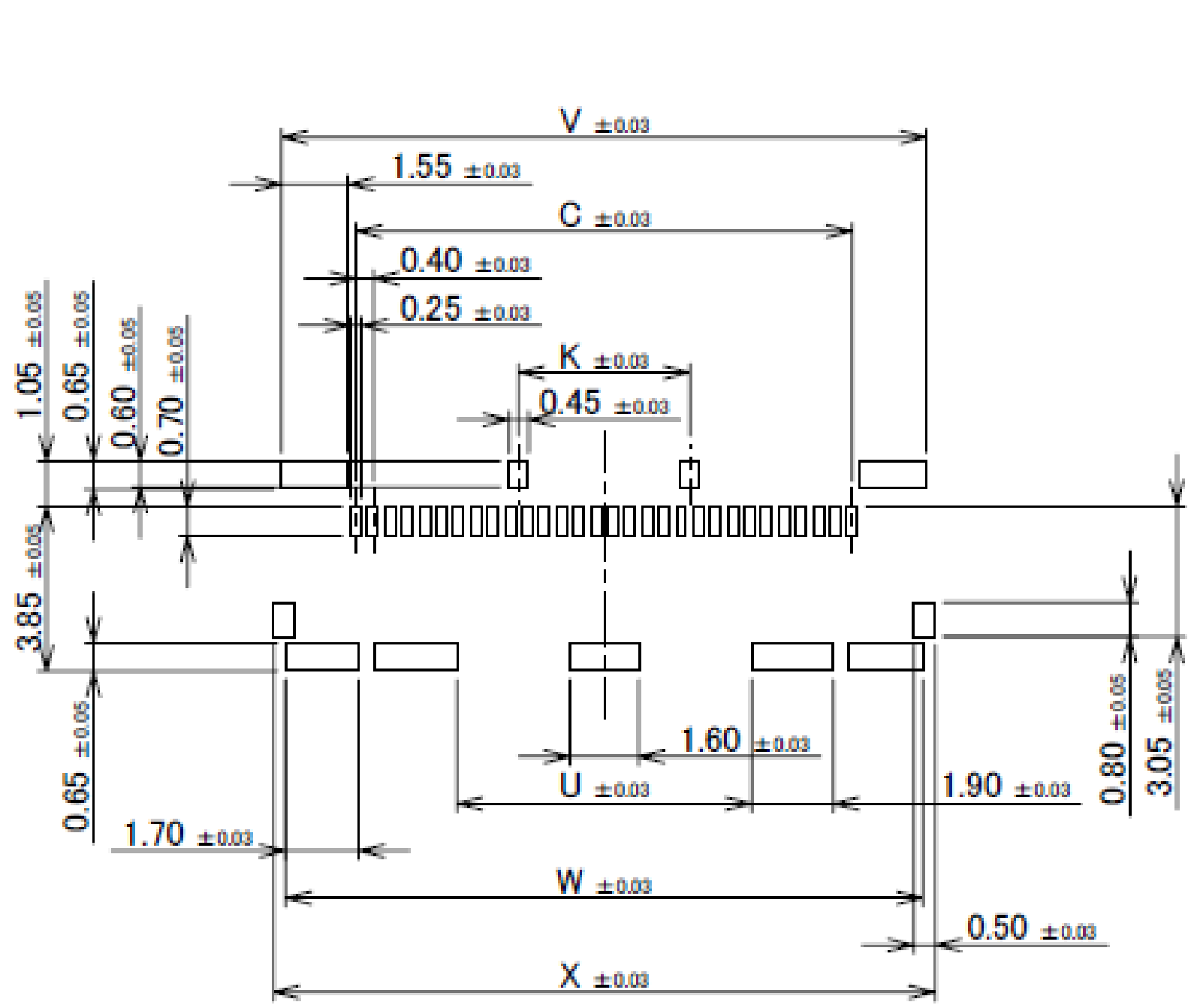


#1 TYPE 50P RECOMMENDED METAL MASK LAYOUT (S = 10 : 1)
※ METAL MASK THICKNESS : t = 0.10

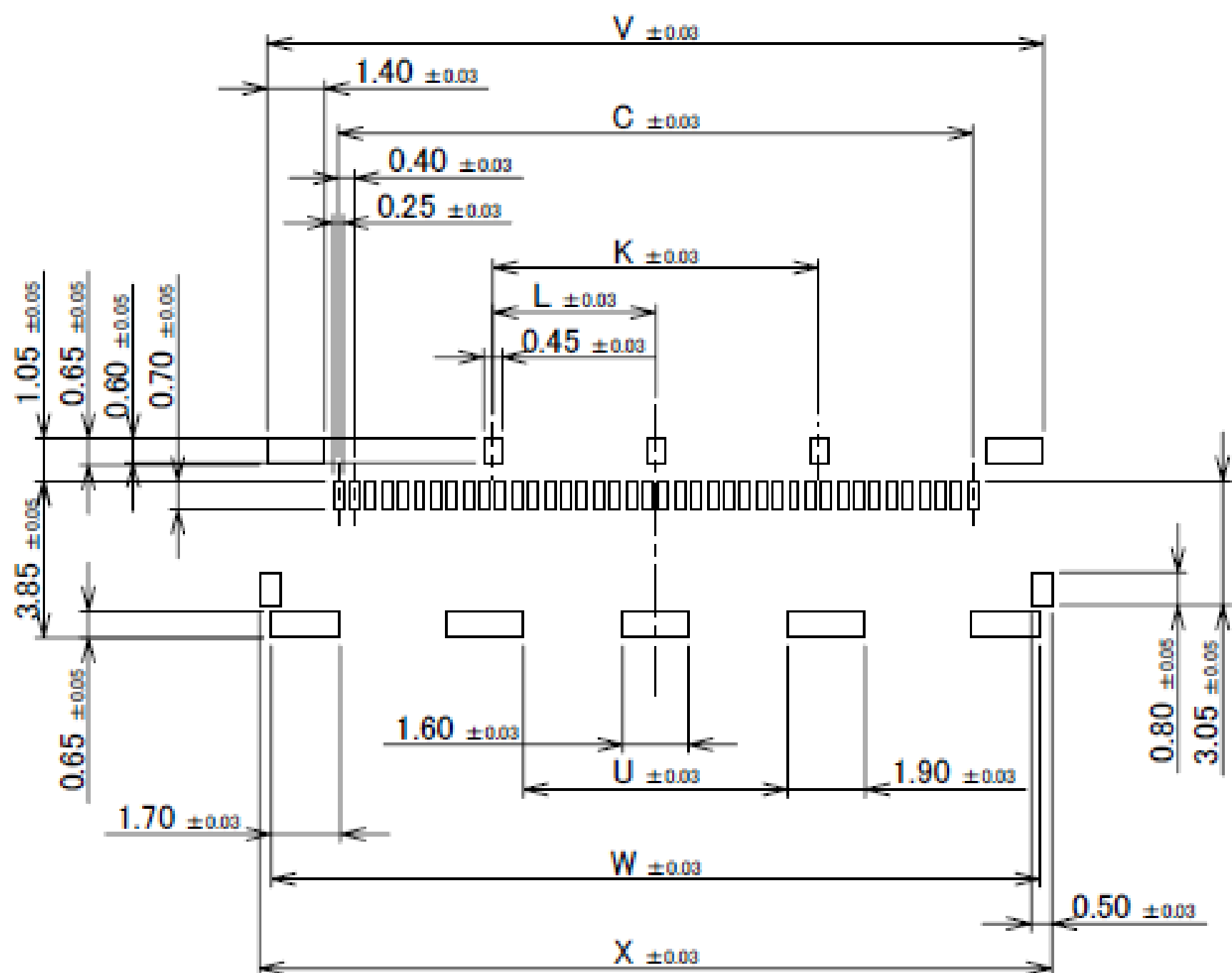
Rev.18

PART No.	Pos.	C	K	L	U	V	W	X
20879-030E-02	30	11.60	4.00	-	6.89	15.07	14.89	15.47
20879-040E-02	40	15.60	8.00	4.00	6.50	19.07	18.89	19.47
20879-050E-02	50	19.60	14.40	3.60	8.50	23.07	22.89	23.47
20879-060E-02	60	23.60	17.60	-	10.50	27.07	26.89	27.47
20879-070E-02	70	27.60	20.00	-	11.30	31.07	30.89	31.47

02 TYPE



02 TYPE 30P RECOMMENDED METAL MASK LAYOUT (S = 5 : 1)
※ METAL MASK THICKNESS : t = 0.12



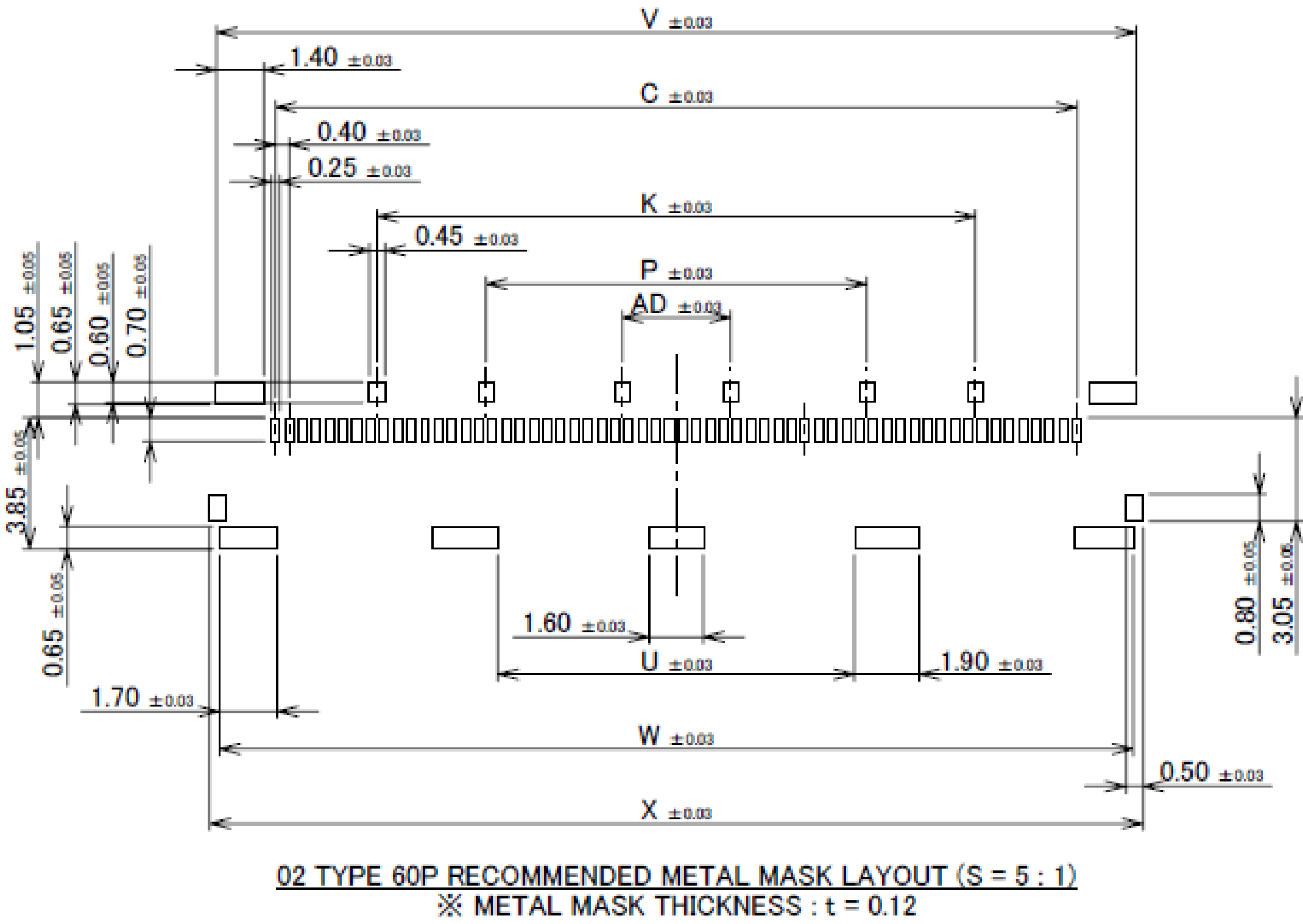
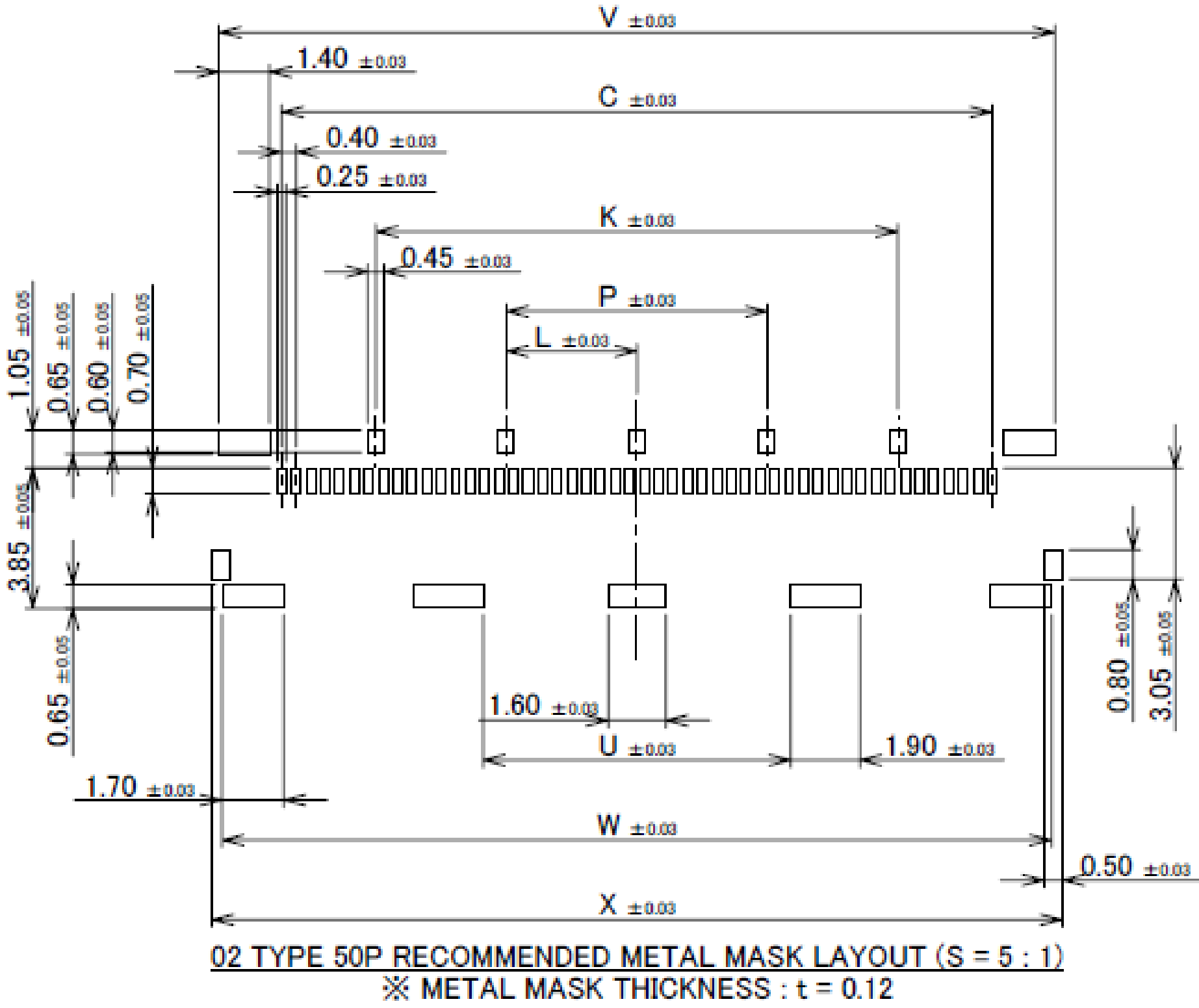
02 TYPE 40P RECOMMENDED METAL MASK LAYOUT (S = 5 : 1)
※ METAL MASK THICKNESS : t = 0.12

Rev.18

Receptacle Assembly

PART No.	Pos.	C	K	L	P	U	V	W	X	AD
20879-030E-02	30	11.60	4.00	-	-	6.89	15.07	14.89	15.47	-
20879-040E-02	40	15.60	8.00	4.00	-	6.50	19.07	18.89	19.47	-
20879-050E-02	50	19.60	14.40	3.60	7.20	8.50	23.07	22.89	23.47	-
20879-060E-02	60	23.60	17.60	-	11.20	10.50	27.07	26.89	27.47	3.20
20879-070E-02	70	27.60	20.00	-	12.00	11.30	31.07	30.89	31.47	4.00

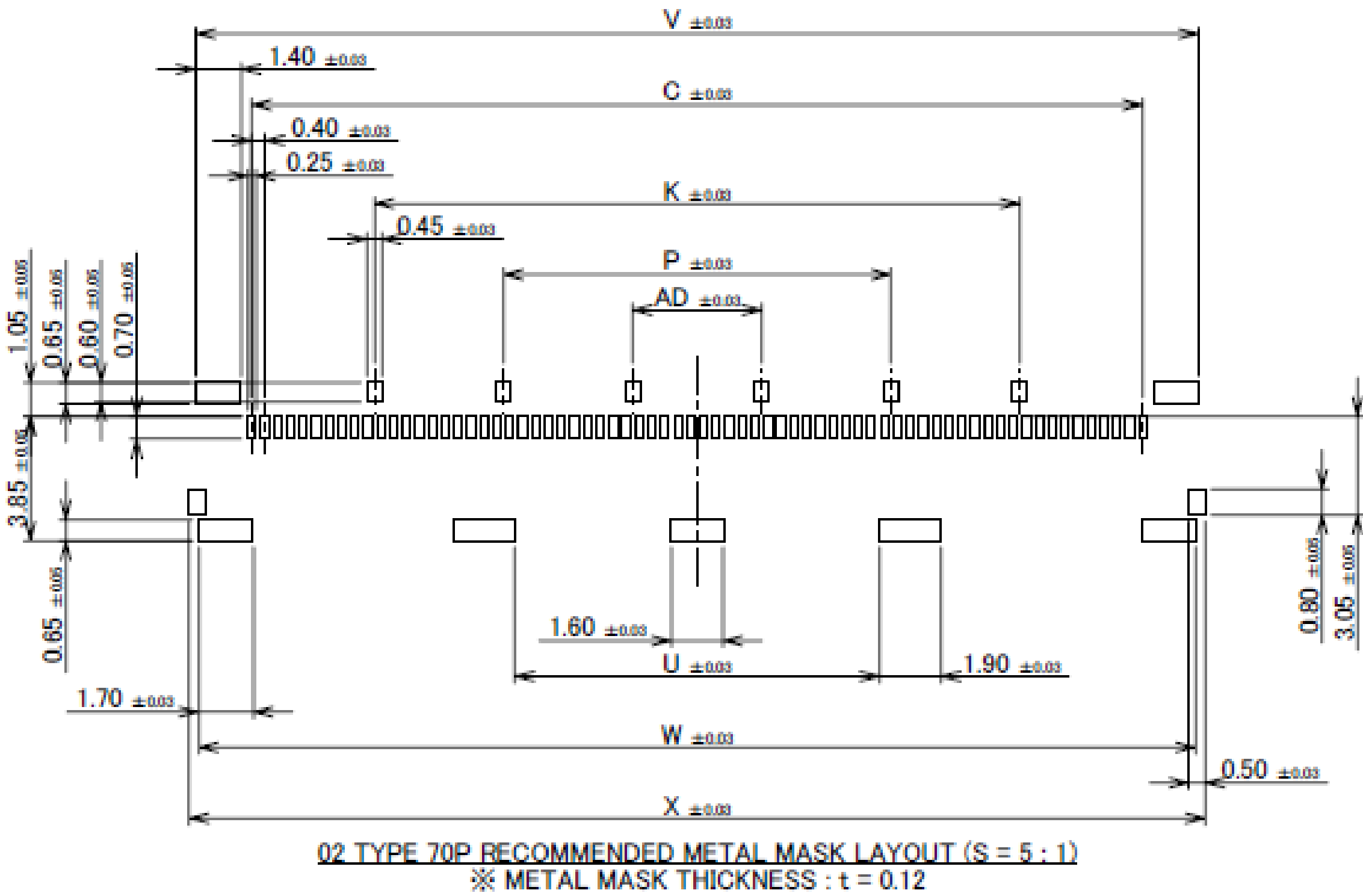
02 TYPE



Rev.18

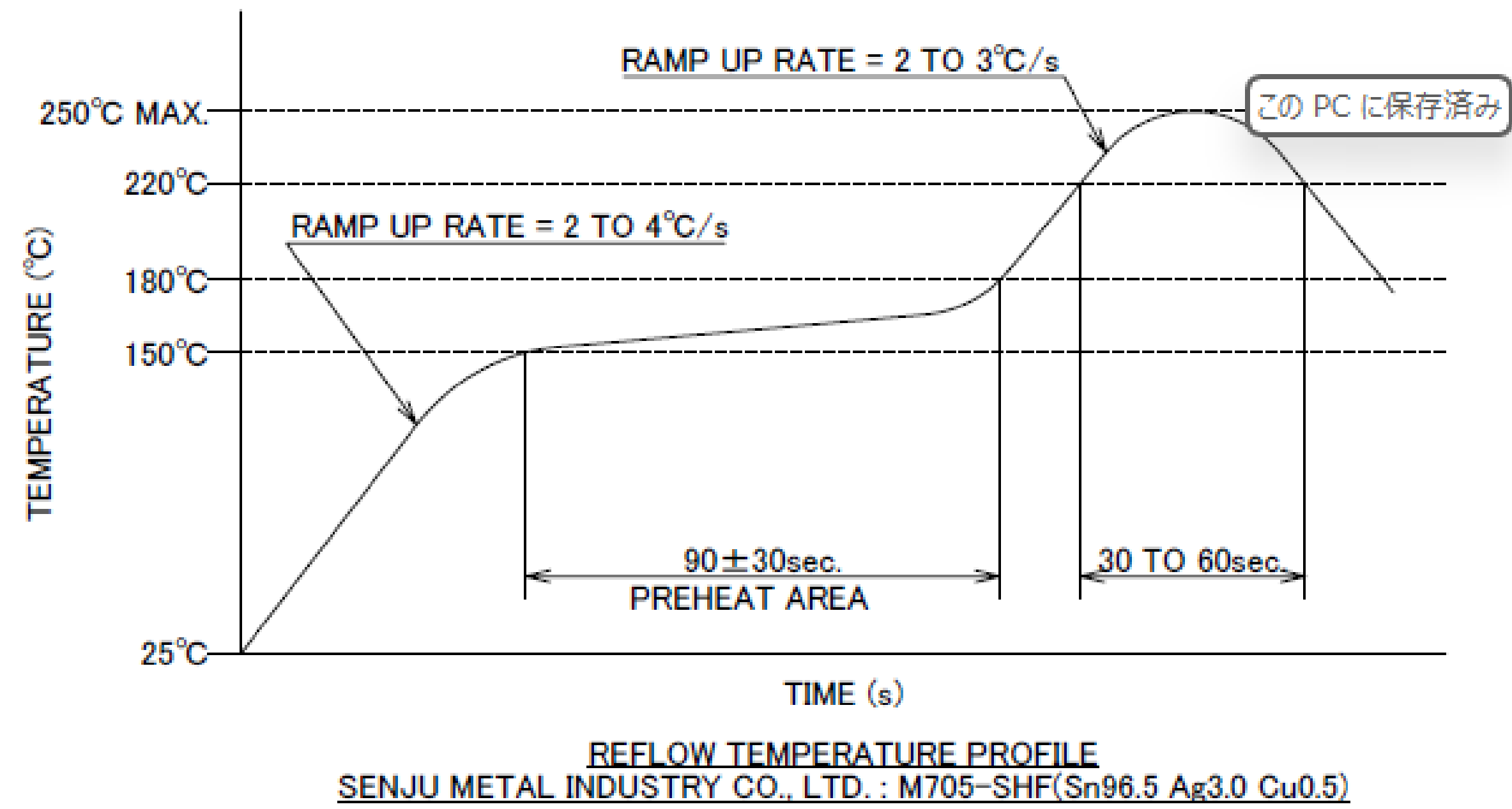
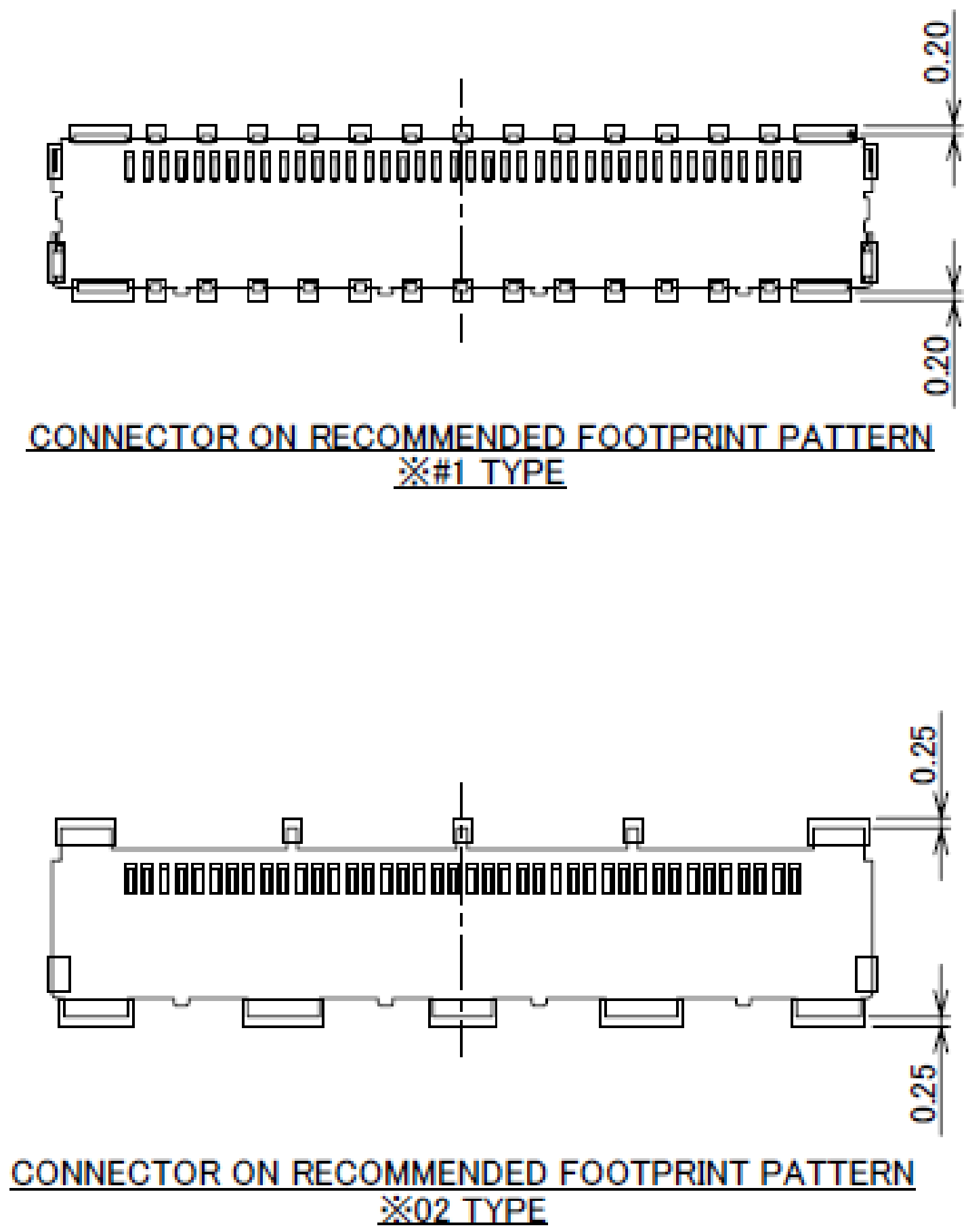
PART No.	Pos.	C	K	L	P	U	V	W	X	AD
20879-030E-02	30	11.60	4.00	-	-	6.89	15.07	14.89	15.47	-
20879-040E-02	40	15.60	8.00	4.00	-	6.50	19.07	18.89	19.47	-
20879-050E-02	50	19.60	14.40	3.60	7.20	8.50	23.07	22.89	23.47	-
20879-060E-02	60	23.60	17.60	-	11.20	10.50	27.07	26.89	27.47	3.20
20879-070E-02	70	27.60	20.00	-	12.00	11.30	31.07	30.89	31.47	4.00

02 TYPE



Rev.18

Receptacle Assembly



Rev.18

ITEMS	SPECIFICATION
APPLICABLE CABLE	MICRO-COAXIAL CABLE : AWG #44 , 42 , 40 , 38 , 36 DISCRETE WIRE : AWG #36 , 34 TWINAXIAL CABLE : AWG #40 , 42
RATED VOLTAGE	100V AC (PER CONTACT PIN) ※THIS IS THE RATED VOLTAGE OF THE CONNECTOR. PLEASE NOTE THAT THE RATED VOLTAGE MAY VARY IN THE HARNESS DEPENDING ON THE CABLES USED.
RATED AMPERAGE (FOR CONTACT)	0.15A AC/DC [AWG #44] PER CONTACT PIN/UP TO 60 CONTACTS 0.24A AC/DC [AWG #42] PER CONTACT PIN/UP TO 49 CONTACTS 0.3A AC/DC [AWG #40] PER CONTACT PIN/UP TO 38 CONTACTS 0.5A AC/DC [AWG #38] PER CONTACT PIN/UP TO 19 CONTACTS 0.8A AC/DC [AWG #36] PER CONTACT PIN/UP TO 12 CONTACTS 1.0A AC/DC [AWG #34] PER CONTACT PIN/UP TO 10 CONTACTS ※TESTING BY A REAL MACHINE IS RECOMMENDED BECAUSE TEMPERATURE RISE MAY AFFECTED BY ACTUAL SITUATION.
OPERATING TEMPERATURE	233 TO 378K(−40°C TO +105°C)
OPERATING HUMIDITY	85% MAX.
CONTACT RESISTANCE	INITIAL : 180mohm MAX.(AWG #34) / AFTER TEST : 440mohm MAX. 275mohm MAX.(AWG #36) 360mohm MAX.(AWG #38) 600mohm MAX.(AWG #40) 700mohm MAX.(AWG #42) 1080mohm MAX.(AWG #44)
GROUND SHELL RESISTANCE	INITIAL : 50mohm MAX. / AFTER TEST : 440mohm MAX.
INSULATION RESISTANCE	INITIAL : 1000Mohm MIN. / AFTER TEST : 500Mohm MIN.
DIELECTRIC WITHSTANDING VOLTAGE	AC250V 1min
DURABILITY	30 CYCLES
MATING FORCE (INITIAL / AFTER TEST)	30P : 34.00N MAX. 40P : 40.00N MAX. 50P : 46.00N MAX. 60P : 52.00N MAX. 70P : 58.00N MAX.
UNMATING FORCE (INITIAL / AFTER TEST)	30P : 3.0N MIN. 40P : 4.0N MIN. 50P : 5.0N MIN. 60P : 6.0N MIN. 70P : 7.0N MIN.
CABLE RETENTION FORCE	30P : 14.70N MIN. 40P : 19.60N MIN. 50P : 24.50N MIN. 60P : 29.40N MIN. 70N : 34.30N MIN.
COPLANARITY	0.10 MAX.
PRODUCT SPECIFICATION	PRS-2514
TEST REPORT	TR-18067 (PLUG:20877-0**T-0#, RECEPTACLE:20879-0**E-01) TR-18088 (PLUG:20877-0**T-0#, RECEPTACLE:20879-0**E-02) TR-24001 (PLUG:20877-0**T-0#, RECEPTACLE:20879-0**E-11) TR-24002 (PLUG:20877-0**T-1#, RECEPTACLE:20879-0**E-01) TR-24003 (PLUG:20877-0**T-1#, RECEPTACLE:20879-0**E-02) TR-24004 (PLUG:20877-0**T-1#, RECEPTACLE:20879-0**E-11)
PACKING STANDARD	PST-18043
INSTRUCTION MANUAL	HIM-18033
APPEARANCE CRITERIA No.	QLS-A***

※Only the single-hook pull jig is permitted for 70P.
The dual-hook pull jig is not allowed for 70P.

Rev.18

Custom Connectors Available

RF Connectors

MHF® series



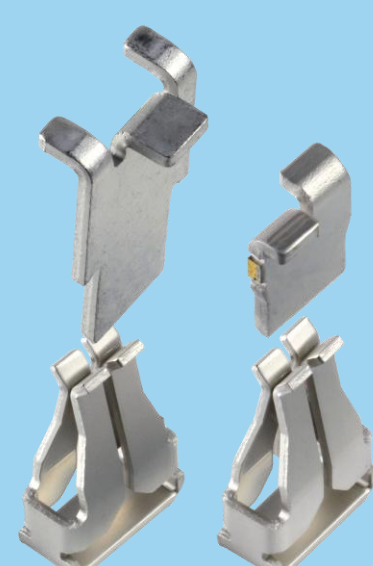
CABLINE® series

Micro-Coaxial/Twinaxial Connectors

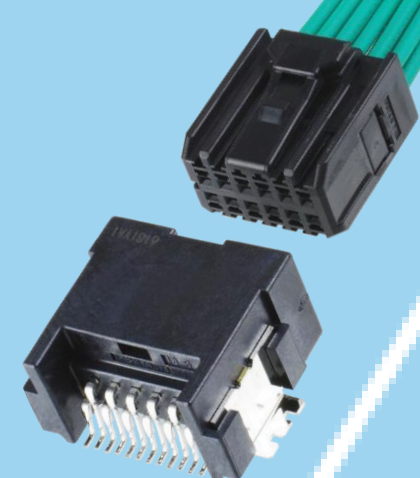


Wire-to-Board Connectors/ Terminals

AP series



ISH®
series



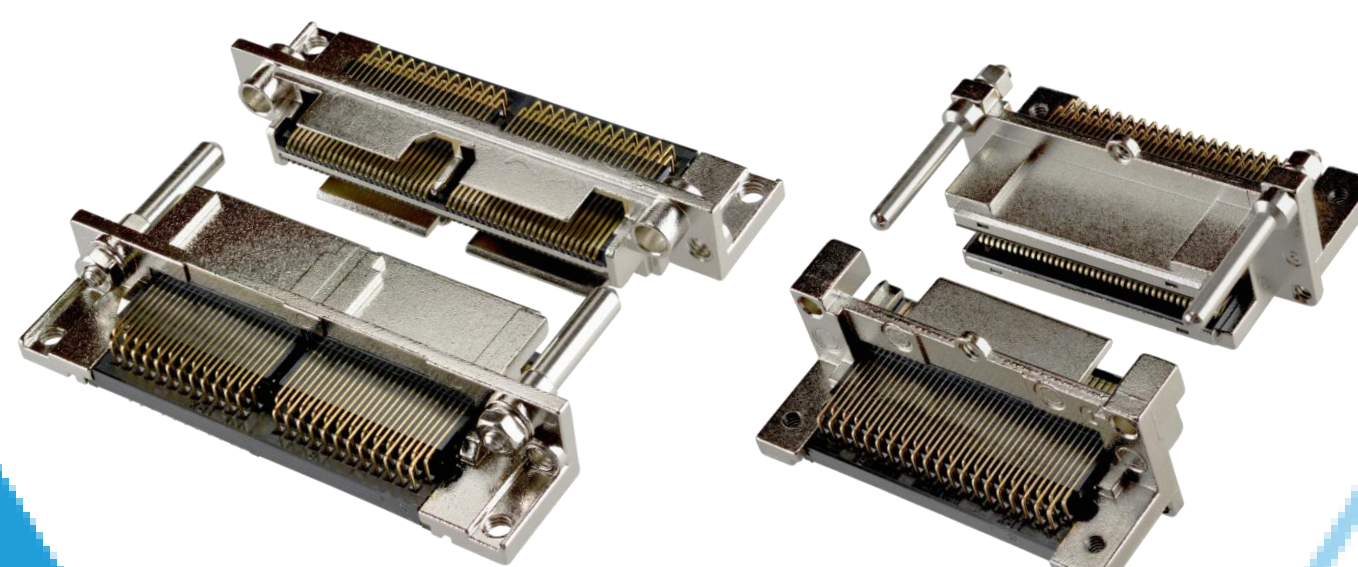
NOVASTACK® series



Board-to-Board Connectors

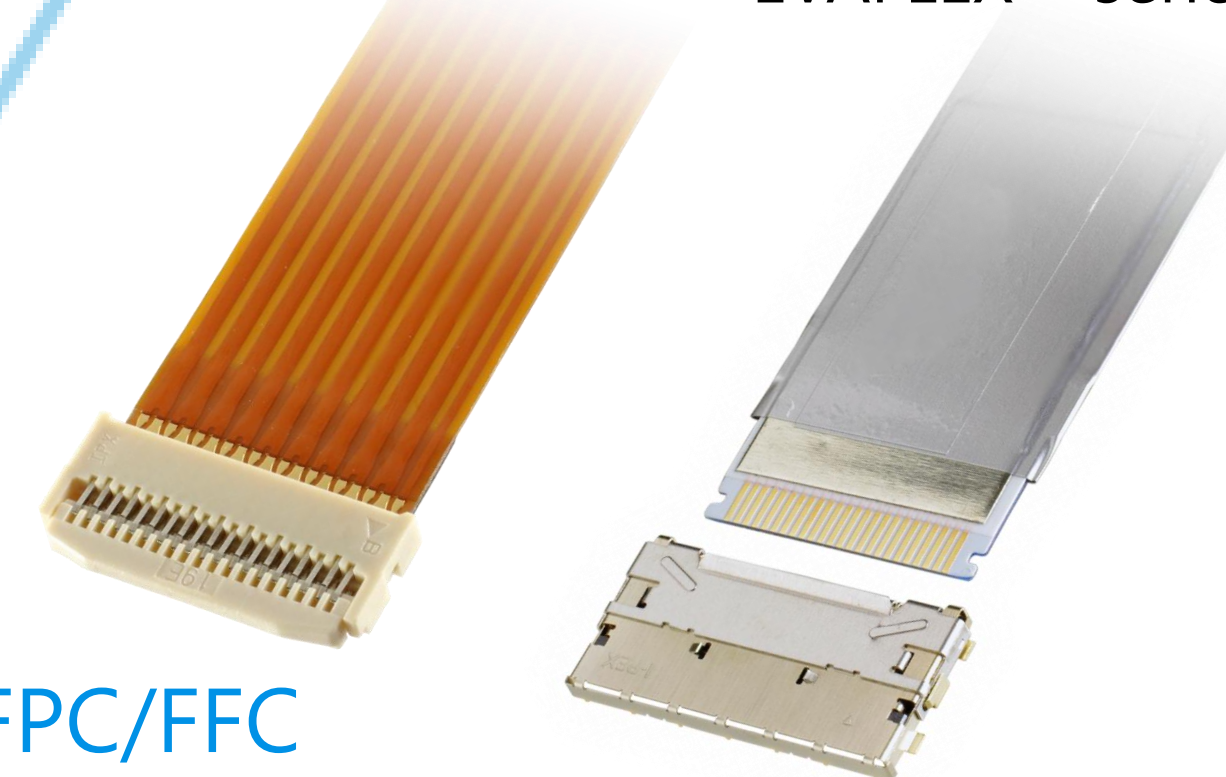


I/O Connectors



MINIDOCK™ series

MINIFLEX® series EVAFLEX® series



FPC/FFC Connectors



Inquiry



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