

CABLINE®-UX II

適合通孔解決方案的超細設計，窄間距（0.25 mm），90°出線垂直插拔款的極細同軸線連接器

Product Specifications:

Mating type		Right angle vertical
Board Pitch (mm)		0.5
Wiping Length (mm)		0.2
Mated size (mm)	Height	1.10 Max
	Width	Formula: $4.1 + (0.25 * ?p)$
	Depth	2.4
Pin Counts	Range	Up to 50
	Available	30, 34, 40, 50

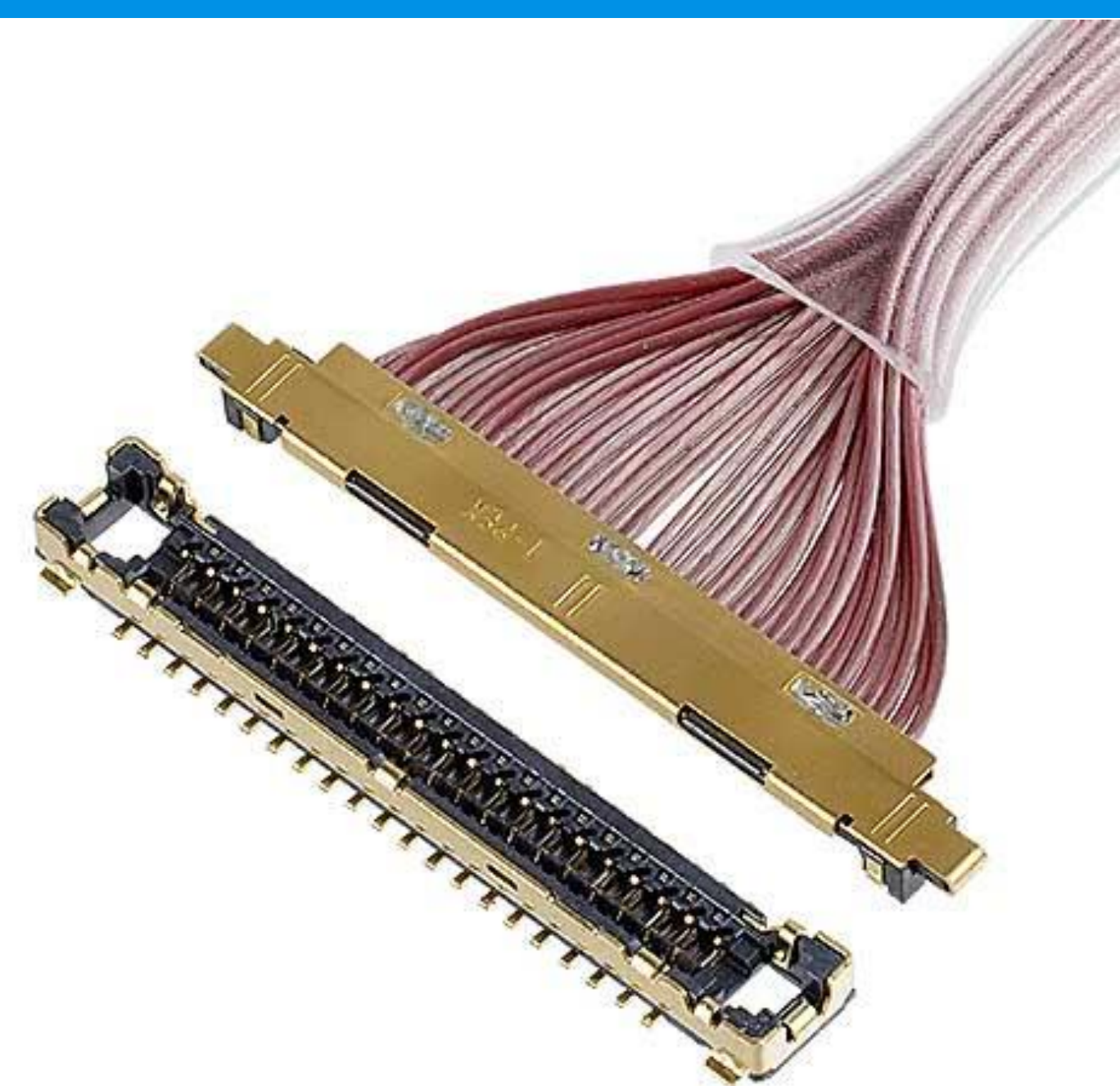
*若有規格外 Pin 數需求, 請與當地負責業務窗口聯繫。

Applicable Cable Size:

Maximum O.D. (mm)	0.25
Micro-Coaxial for Signal (AWG)	45 ohm: #44 or smaller 50 ohm: #46 or smaller
Twinax (AWG)	-
Discrete (AWG)	#39 or smaller

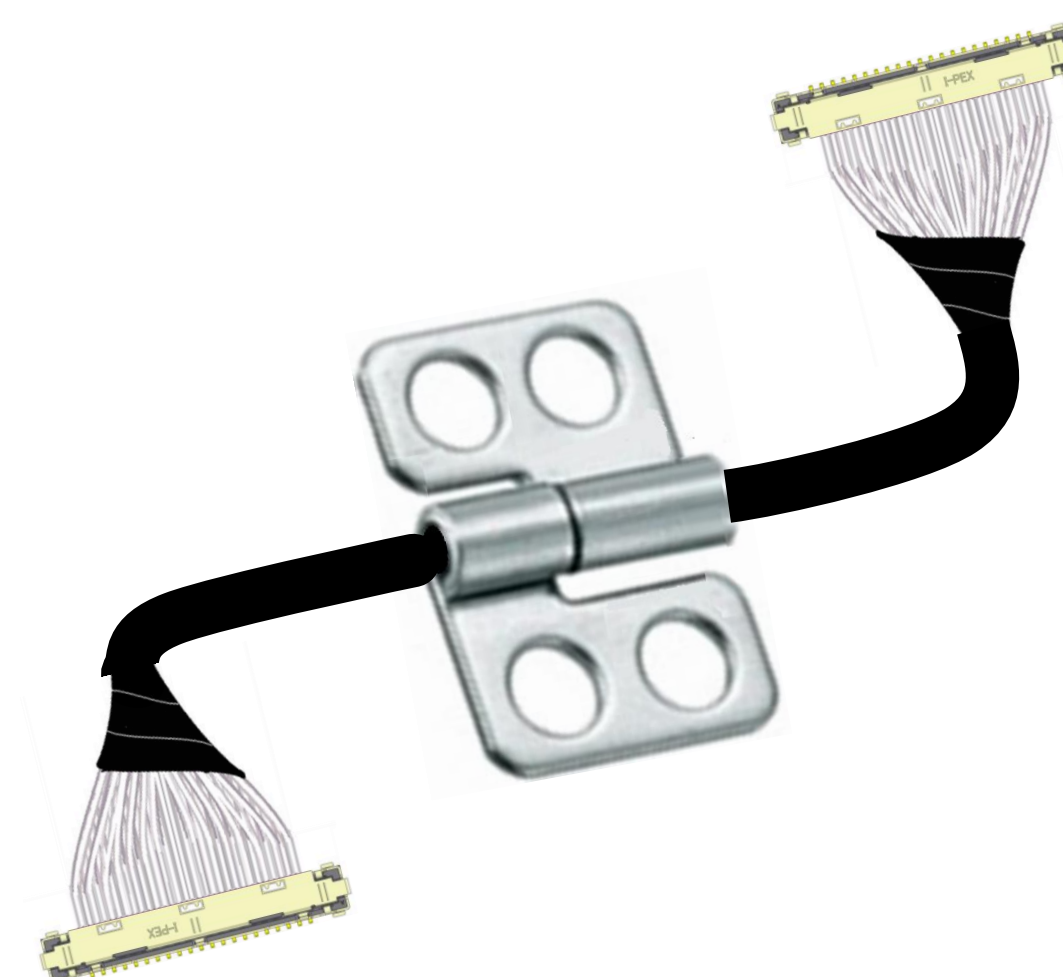
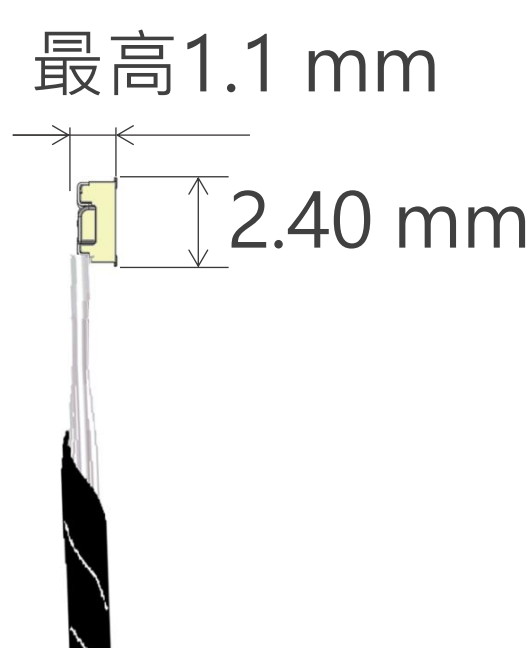
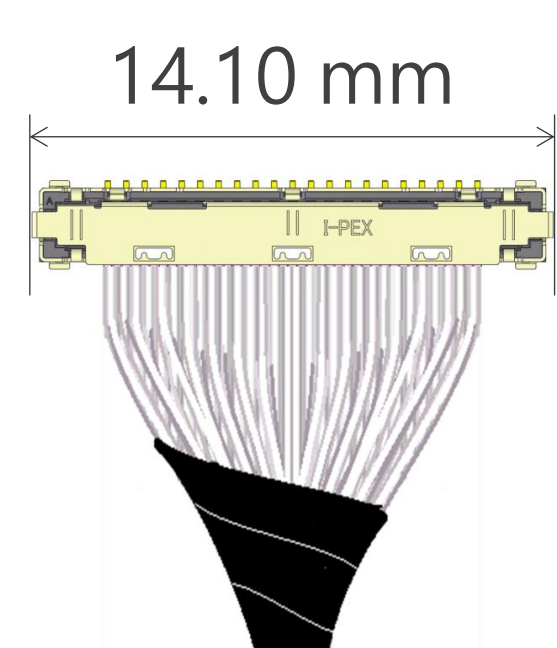
Applicable Standards (Reference Only):

USB 3.1 Gen 1 (5 Gbps), V-By-One HS 1.4 (4 Gbps), HDMI 1.3 (3.4 Gbps)



適用於小型連接器空間

CABLINE-UX II 40p 的大小一分錢硬幣還小。



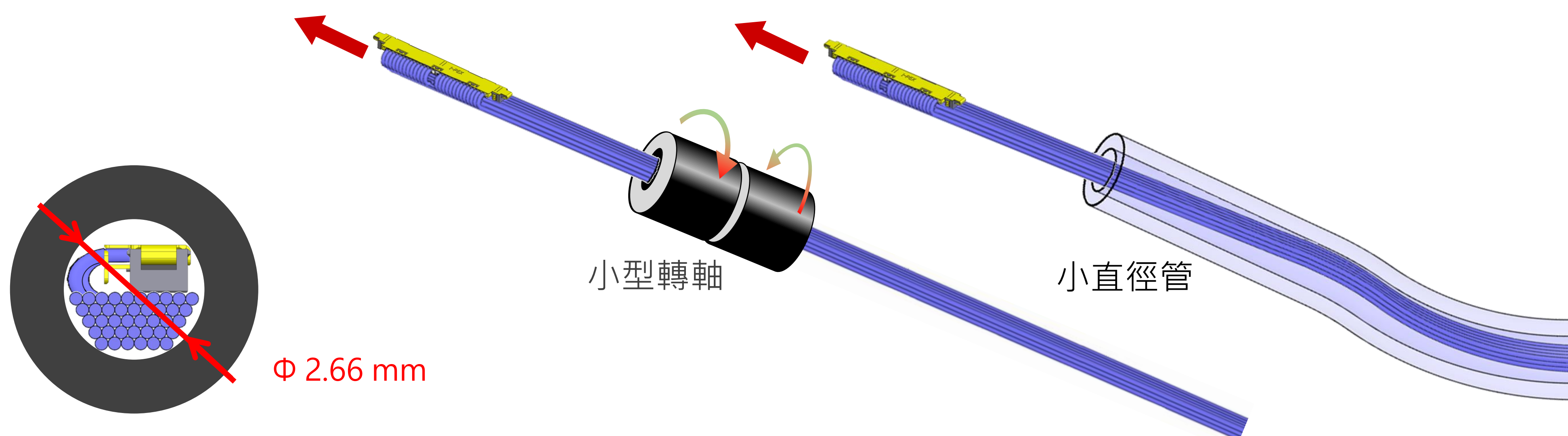
柔性極細同軸線束適合轉軸設計的應用

小巧的公座設計, 適用於穿轉軸組件

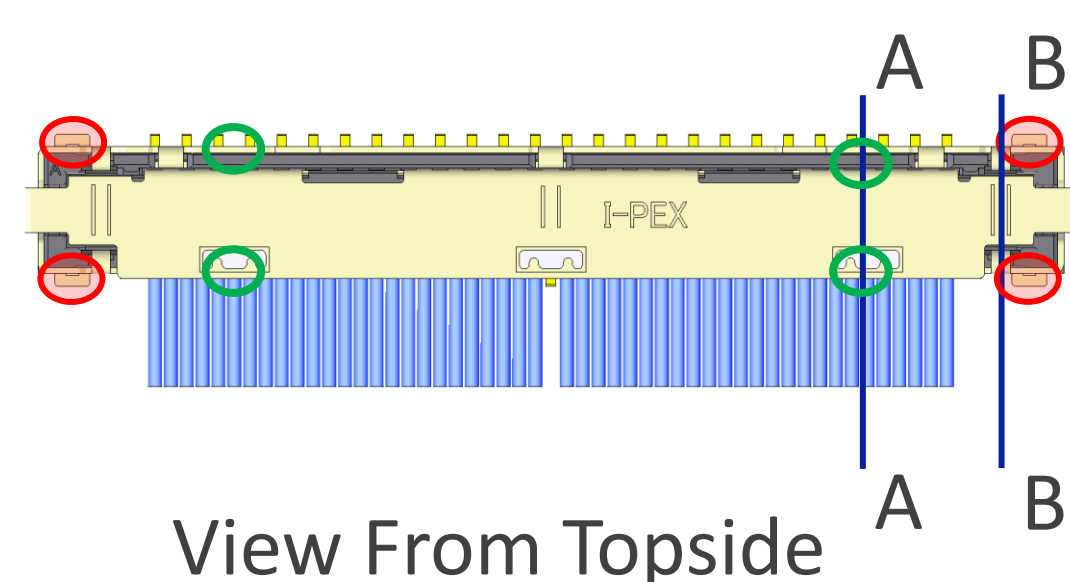
[穿越转轴组件- CABLINE®连接器](#)

模擬參考示例:

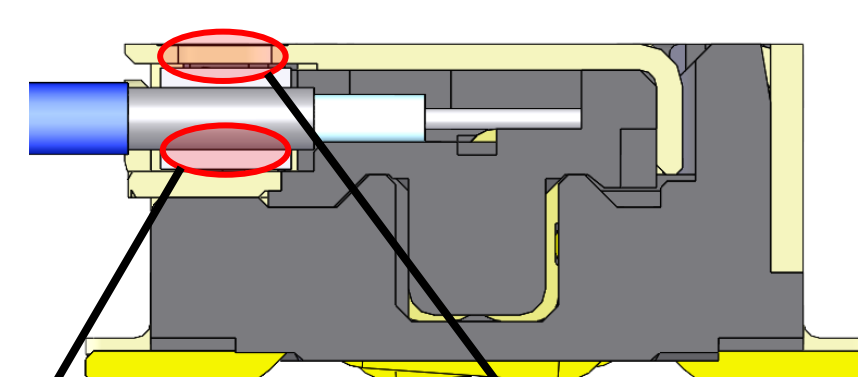
当使用外径为0.24mm的同轴线加工成的UX II 40Pin线束可以穿过内孔径为 $\Phi 2.66$ mm的转轴或者软管。



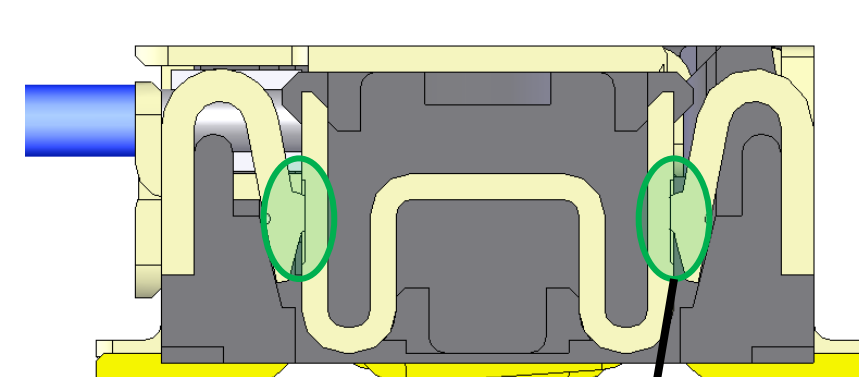
多點接地設計提供良好的EMC解決方案



View From Topside

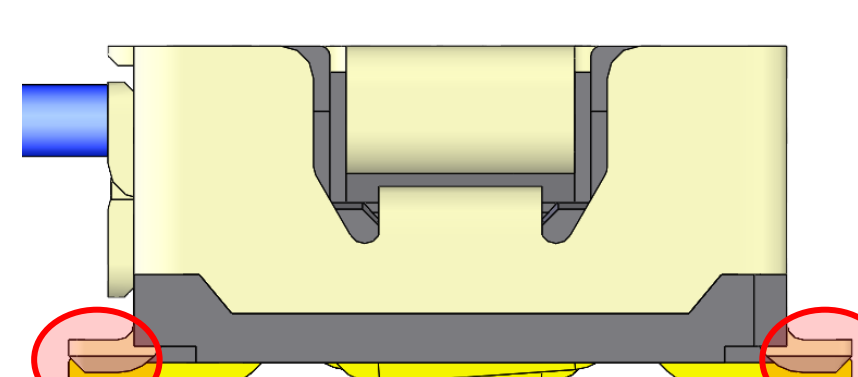


Cross-section A-A



Cross-section B-B

○ Soldered contacts
○ Mechanical contacts



Wire Shield
to
Ground Bar

Ground Bar
to
Plug Shell

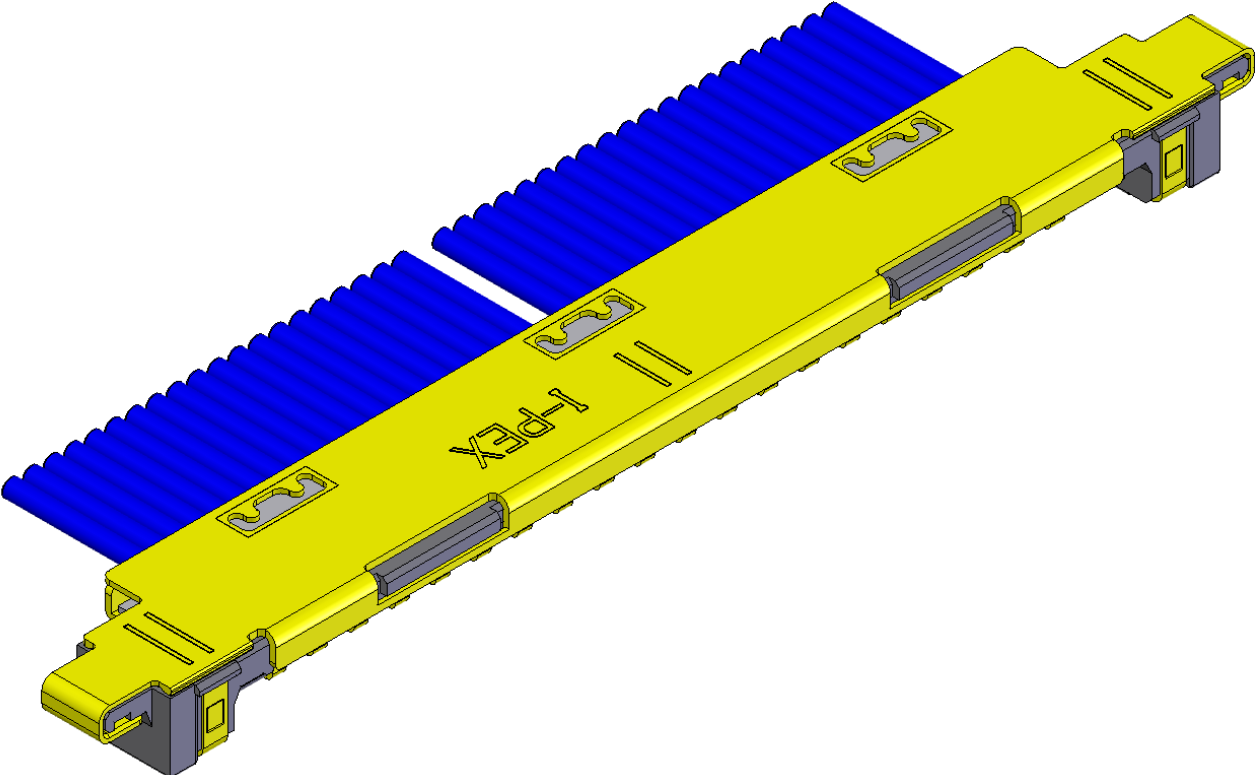
Plug Shell
to
Receptacle Shell

Receptacle Shell
to
PCB

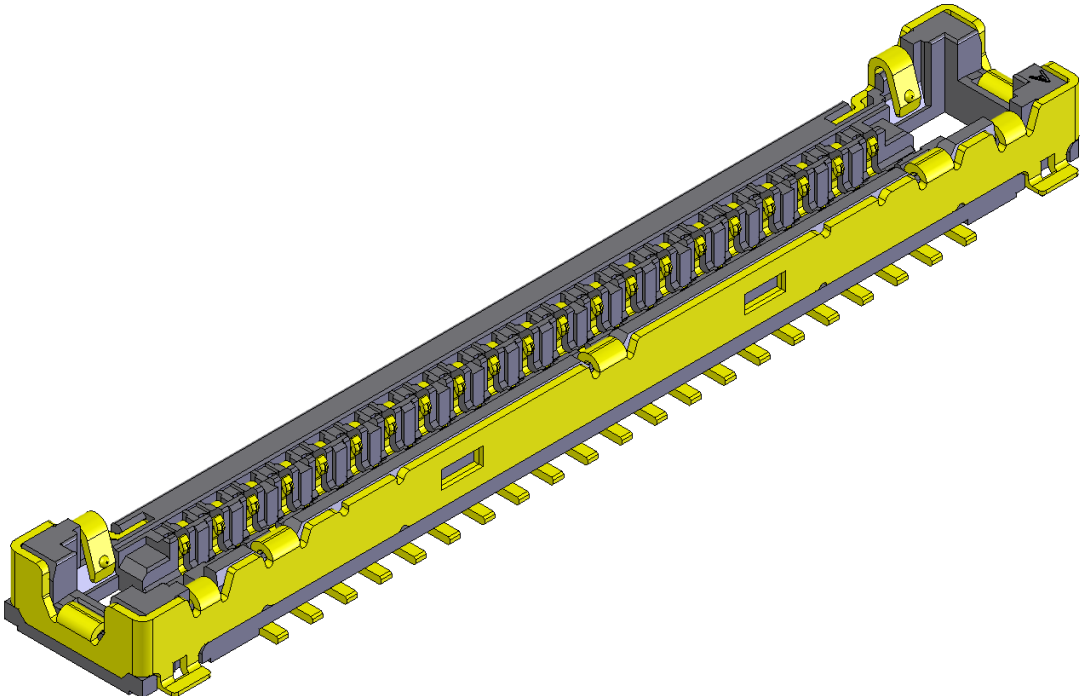
Component Parts Details

Component Parts

Connector parts

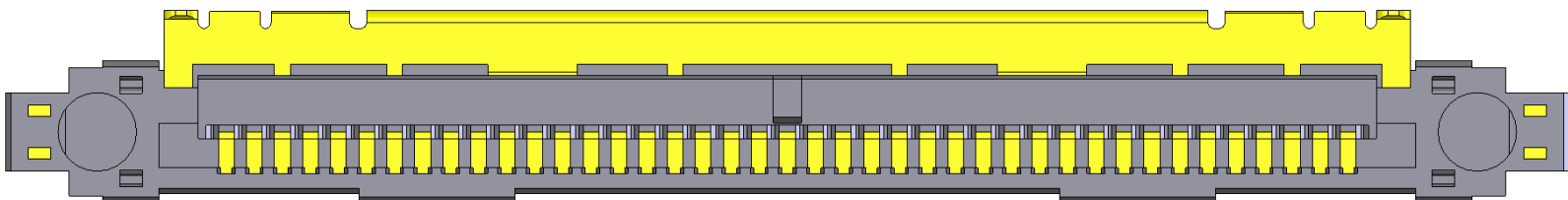


PLUG

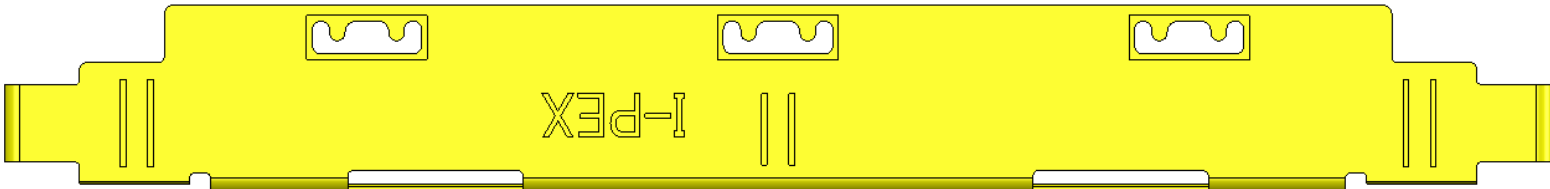


RECEPTACLE

Plug parts



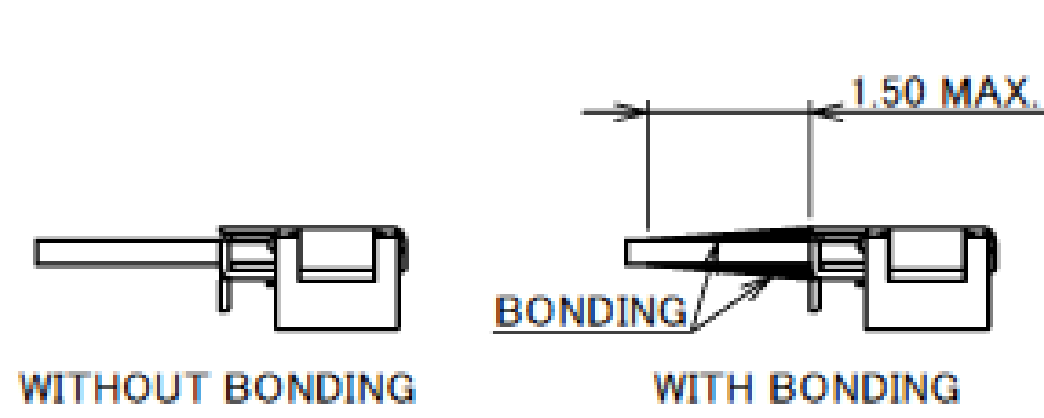
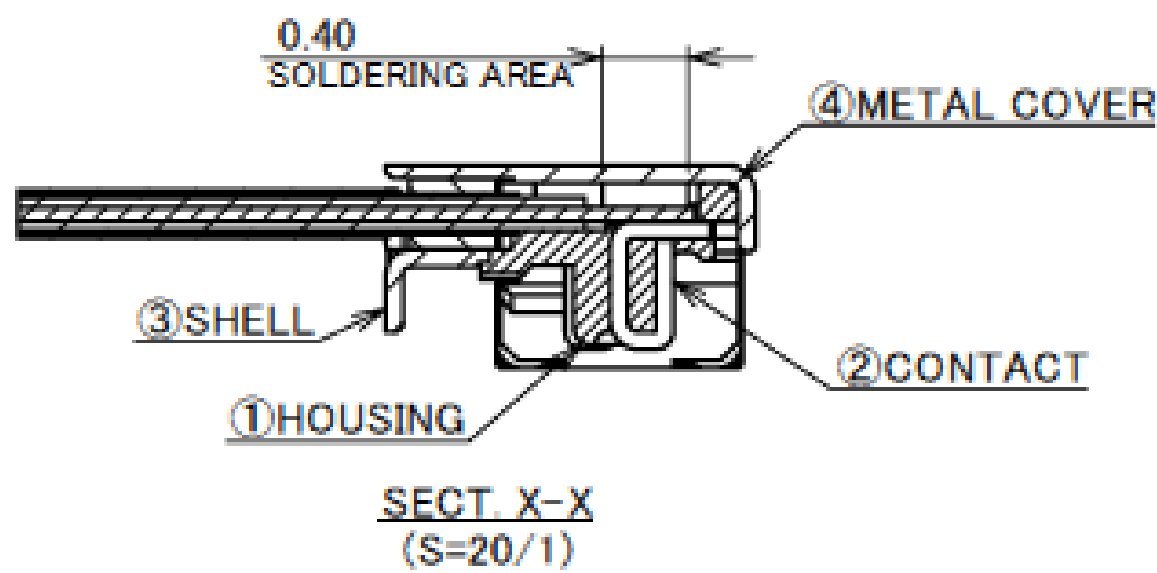
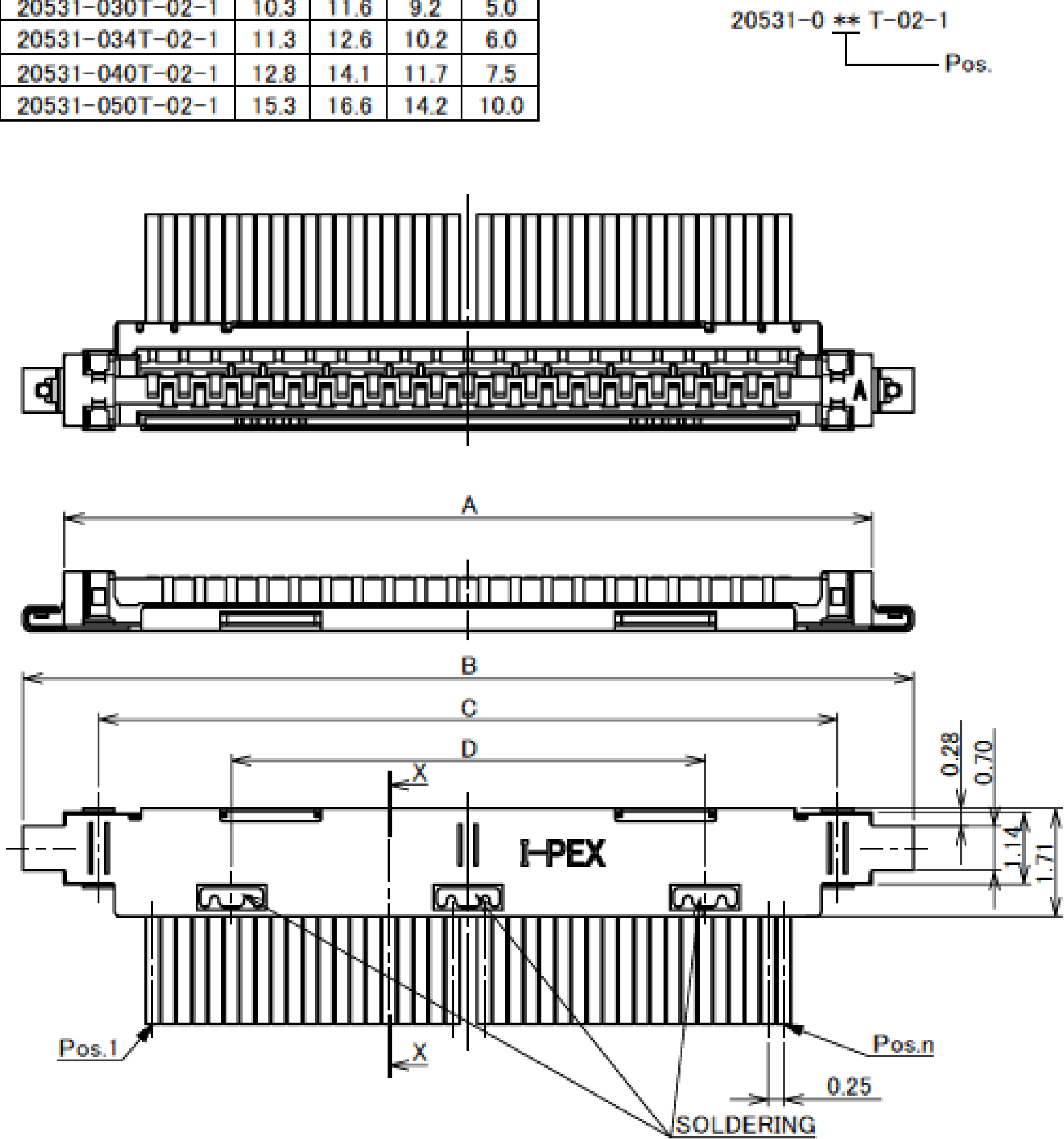
PLUG HOUSING ASSEMBLY



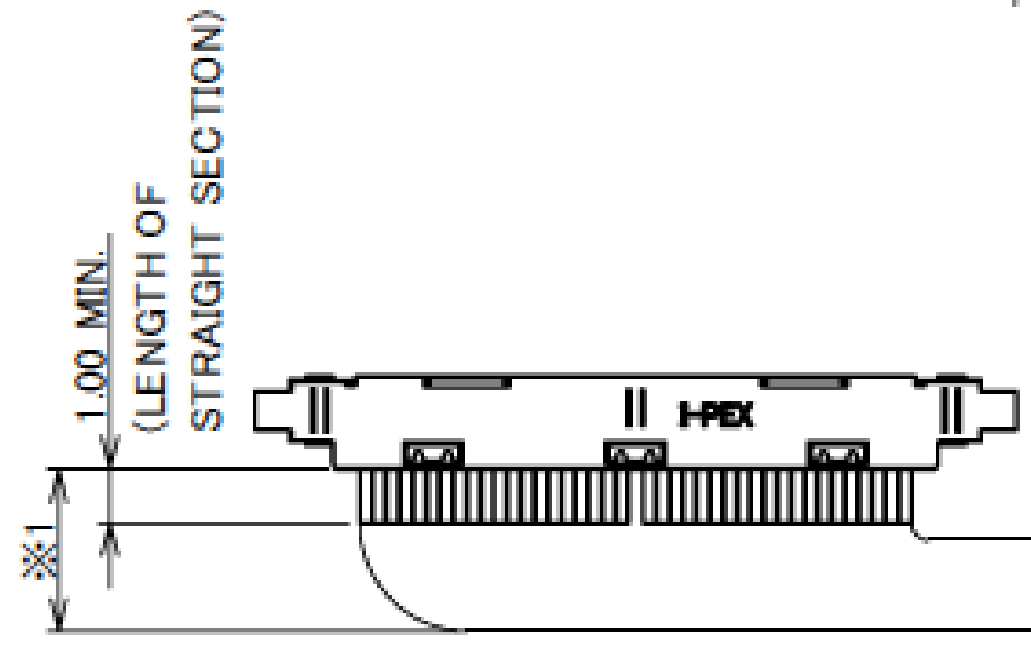
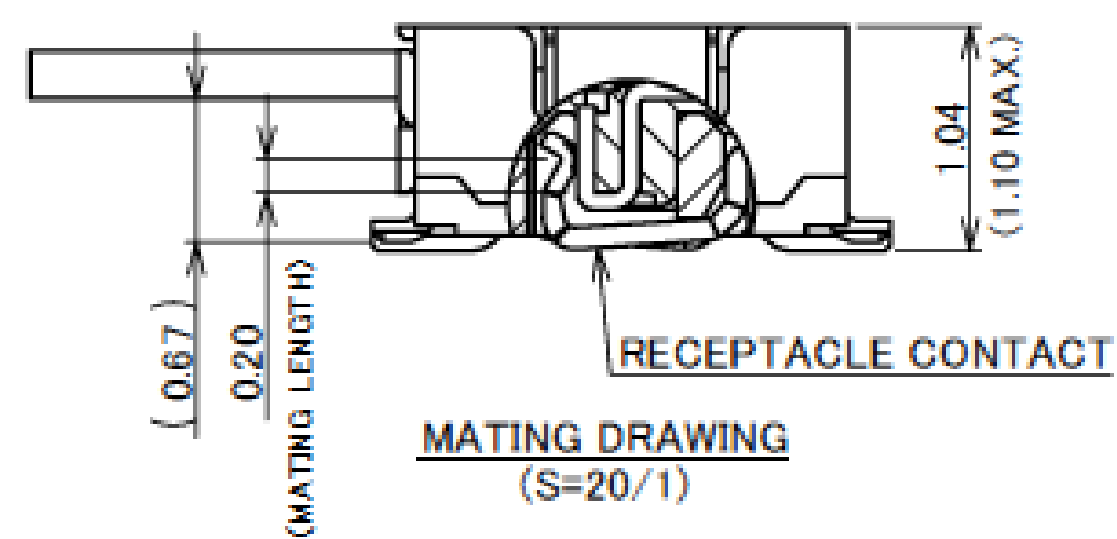
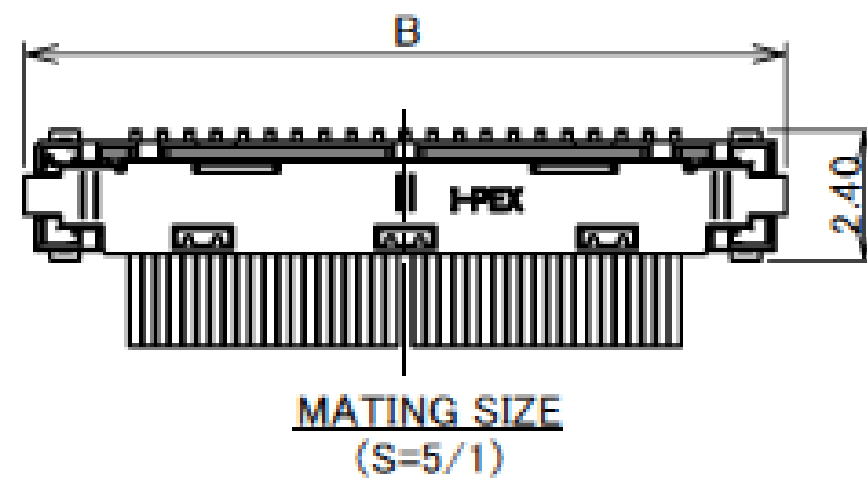
PLUG METAL COVER

Plug for Cable Assembly

RECOMMENDED PART No.		20531-0**T-02-1			
PART No.	A	B	C	D	
20531-030T-02-1	10.3	11.6	9.2	5.0	
20531-034T-02-1	11.3	12.6	10.2	6.0	
20531-040T-02-1	12.8	14.1	11.7	7.5	
20531-050T-02-1	15.3	16.6	14.2	10.0	



※WE RECOMMEND BONDING THE CABLE AND CONNECTOR TO PROTECT THE CABLE.

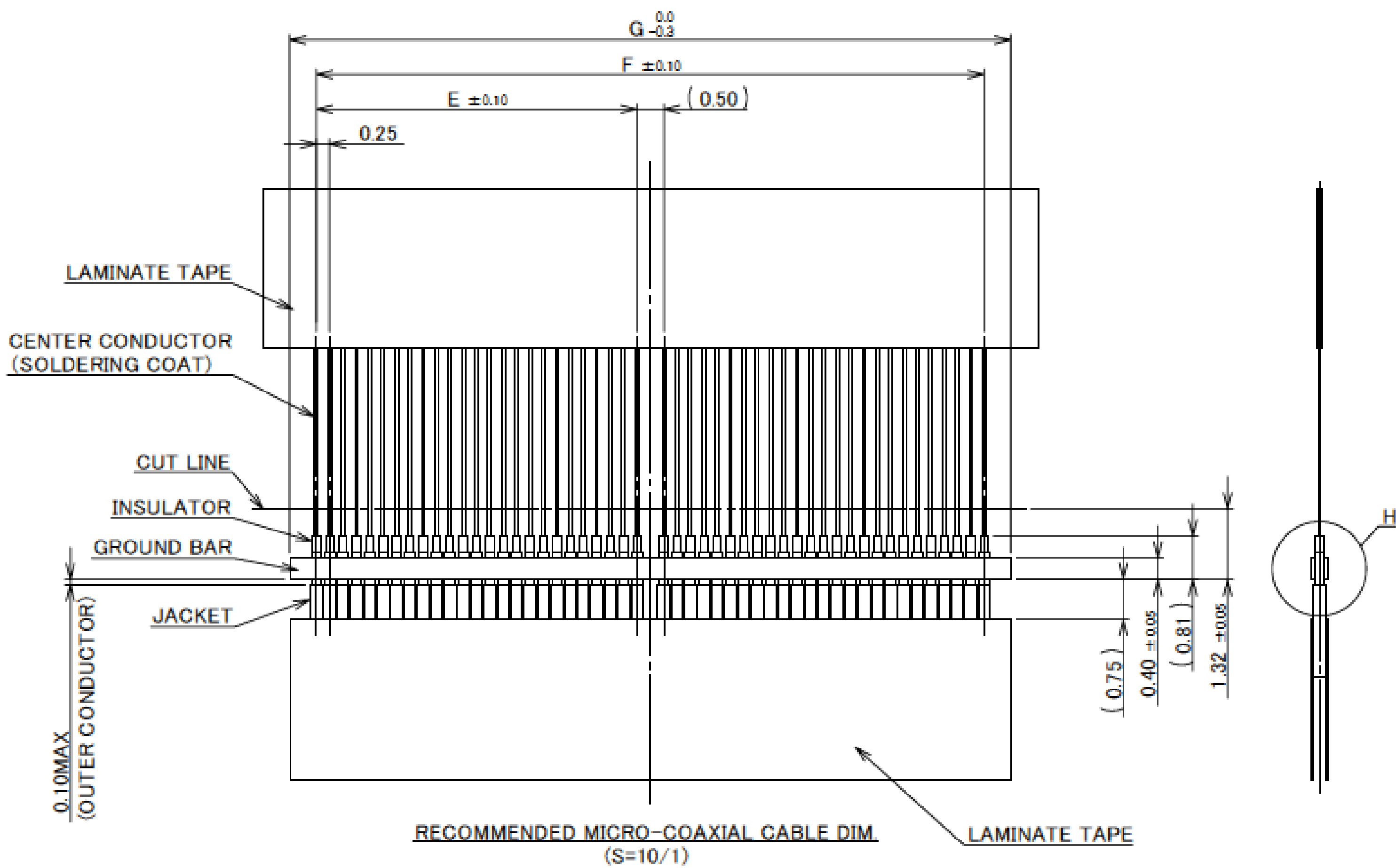


※1 : THE BEND DIMENSIONS MAY VARY BASED ON THE SIZE AND QUANTITY OF CABLES.
PLEASE CONFIRM THE MINIMUM BENDING RADIUS WITH I-PEX OR THE HARNESS MANUFACTURER.

4	METAL COVER	SUS	Au 0.05 μm MIN. OVER Ni 1.0 μm MIN.
3	SHELL	PHOSPHOR BRONZE	Au 0.05 μm MIN. OVER Ni 1.0 μm MIN.
2	CONTACT	PHOSPHOR BRONZE	Au 0.1 μm MIN. OVER Ni 1.0 μm MIN.
1	HOUSING	LCP	UL94V-0 .BLACK
NO.	DISCRIPTION	MATERIAL	FINISH , REMARKS

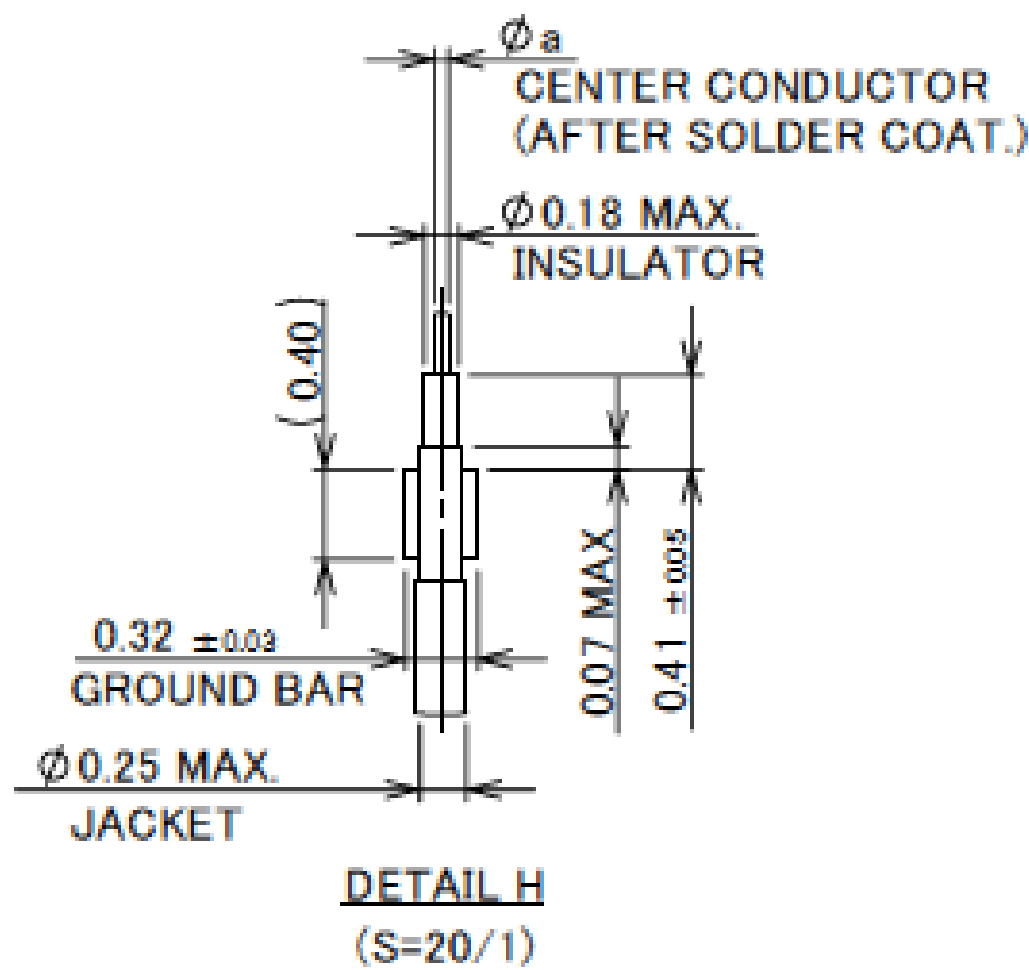
Rev.15

PART No.	E	F	G
20531-030T-02-1	3.5	7.5	8.5
20531-034T-02-1	4.0	8.5	9.5
20531-040T-02-1	4.75	10.0	11.0
20531-050T-02-1	6.0	12.5	13.5



MICRO-COAXIAL CABLE DIMENSION

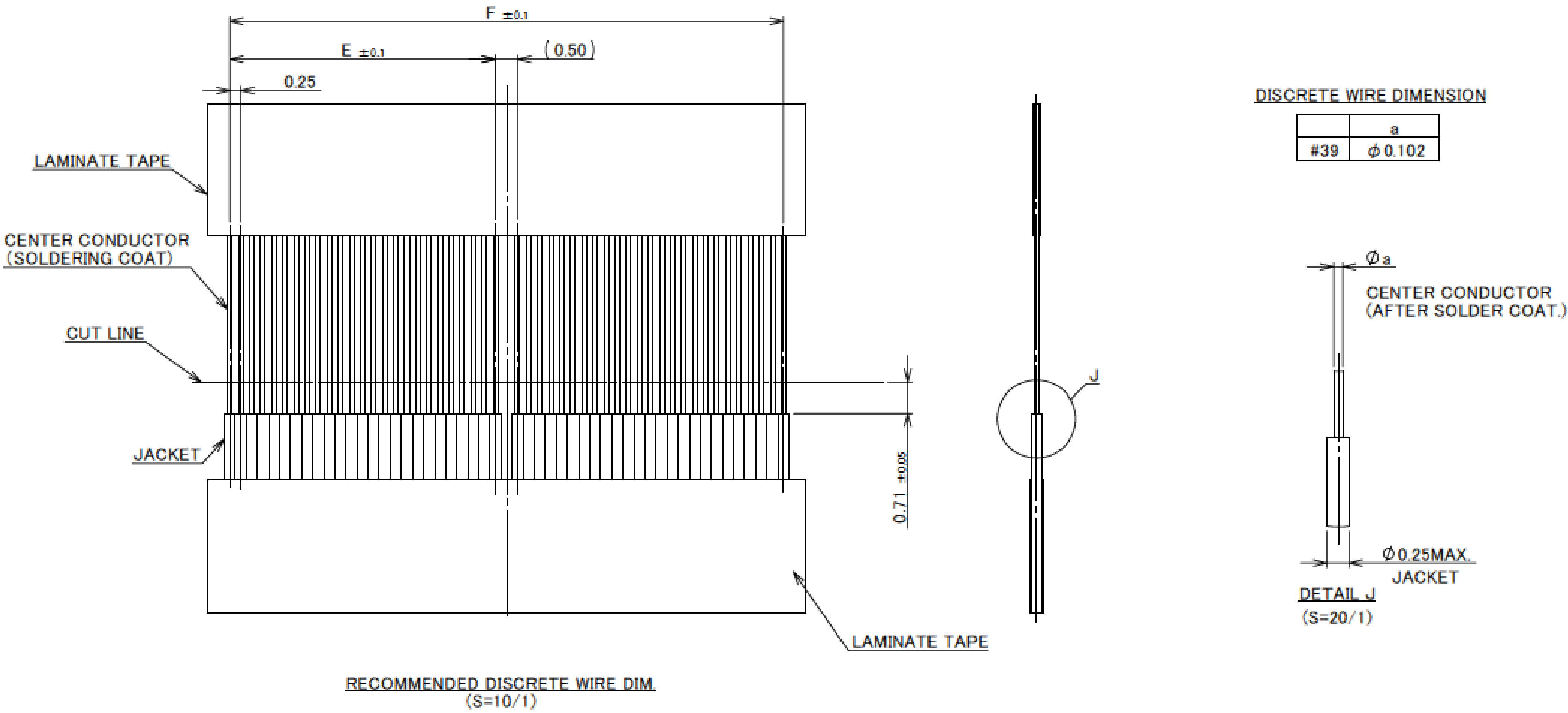
	a
#44	φ 0.063
#46	φ 0.048



Rev.15

Plug for Cable Assembly

PART No.	E	F
20531-030T-02-1	3.5	7.5
20531-034T-02-1	4.0	8.5
20531-040T-02-1	4.75	10.0
20531-050T-02-1	6.0	12.5



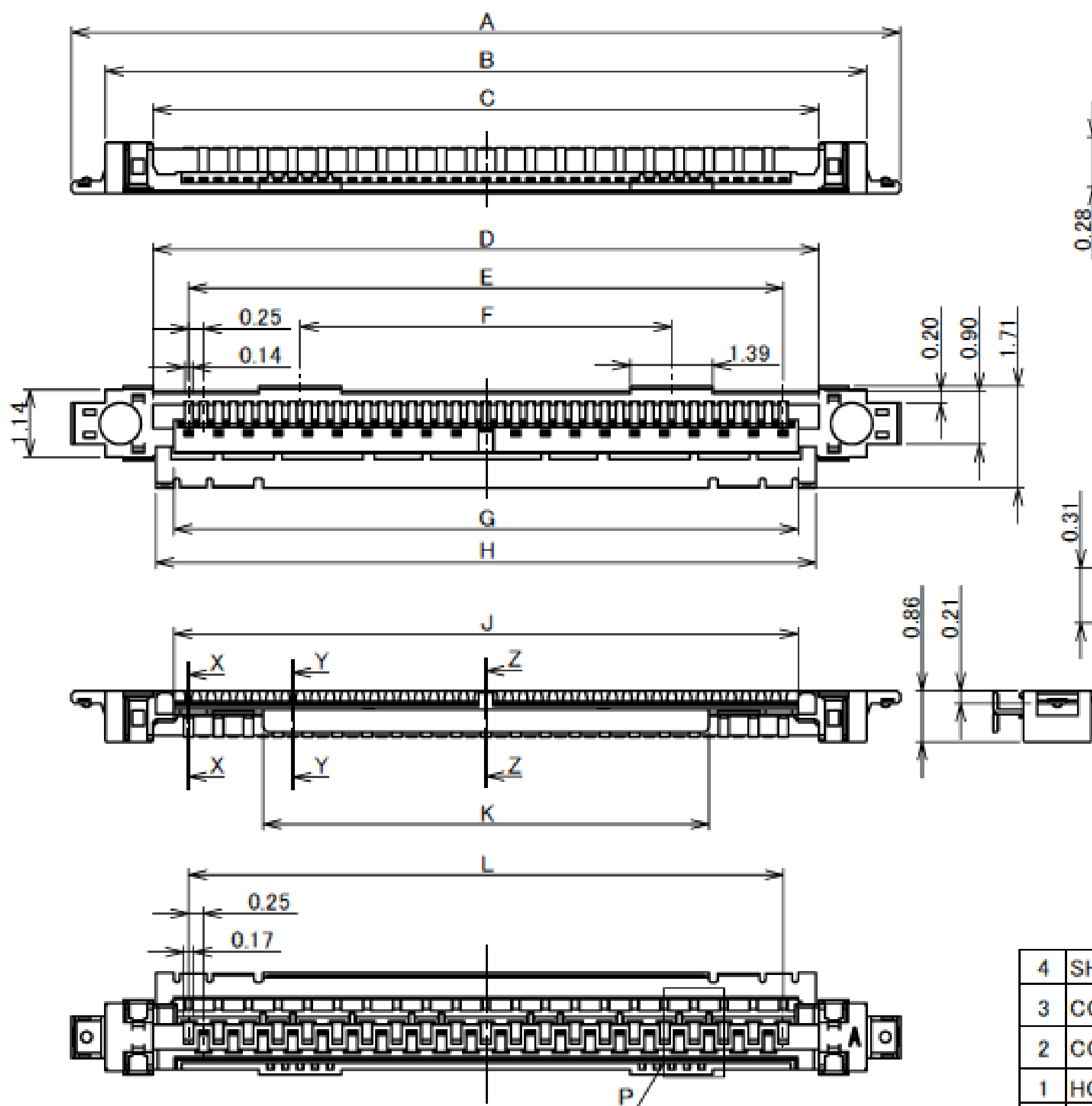
Rev.15

ITEMS	SPECIFICATION
APPLICABLE CABLE	MICRO-COAXIAL CABLE : AWG# 44 ,46 DISCRETE WIRE : AWG#39
RATING VOLTAGE	50V 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.
RATING AMPERAGE (FOR CONTACT)	0.50A AC/DC [AWG#39] (PER CONTACT PIN / UP TO 6 CONTACTS) 0.15A AC/DC [AWG#44] 0.10A AC/DC [AWG#46] ※TESTING BY A REAL MACHINE IS RECOMMENDED BECAUSE TEMPERATURE RISE MAY AFFECTED BY ACTUAL SITUATION
OPERATING TEMPERATURE	233~358K(-40℃~+85℃)
OPERATING HUMIDITY	75% MAX.(NON-CONDENSING)
CONTACT RESISTANCE	INITIAL : 450mohm MAX.(AWG#39) 1080mohm MAX.(AWG#44) 1880mohm MAX.(AWG#46) AFTER TEST : ≦40mohm MAX.
GROUND SHELL RESISTANCE	INITIAL : 100mohm MAX. / AFTER TEST : ≦40mohm MAX.
INSULATION RESISTANCE	INITIAL : 100Mohm MIN. / AFTER TEST : 100Mohm MIN.
DIELECTRIC WITHSTANDING VOLTAGE	AC100V 1min
DURABILITY	20 CYCLES
MATING FORCE (INITIAL / AFTER TEST)	30P : 26.4N MAX. 34P : 27.6N MAX. 40P : 29.4N MAX. 50P : 32.4N MAX.
UNMATING FORCE (INITIAL / AFTER TEST)	30P : 1.5N MIN. 34P : 1.9N MIN. 40P : 2.5N MIN. 50P : 3.5N MIN.
CABLE RETENTION FORCE	30P : 15.0N MIN. 34P : 17.0N MIN. 40P : 20.0N MIN. 50P : 25.0N MIN.
PRODUCT SPECIFICATION	PRS-2887
TEST REPORT	TR-24028
INSTRUCTION MANUAL	HIM-10001
ASSEMBLY MANUAL	ASM-10001
APPEARANCE CRITERIA No.	QLS-A***

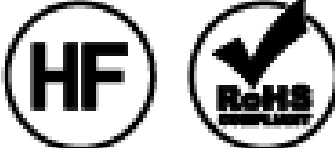
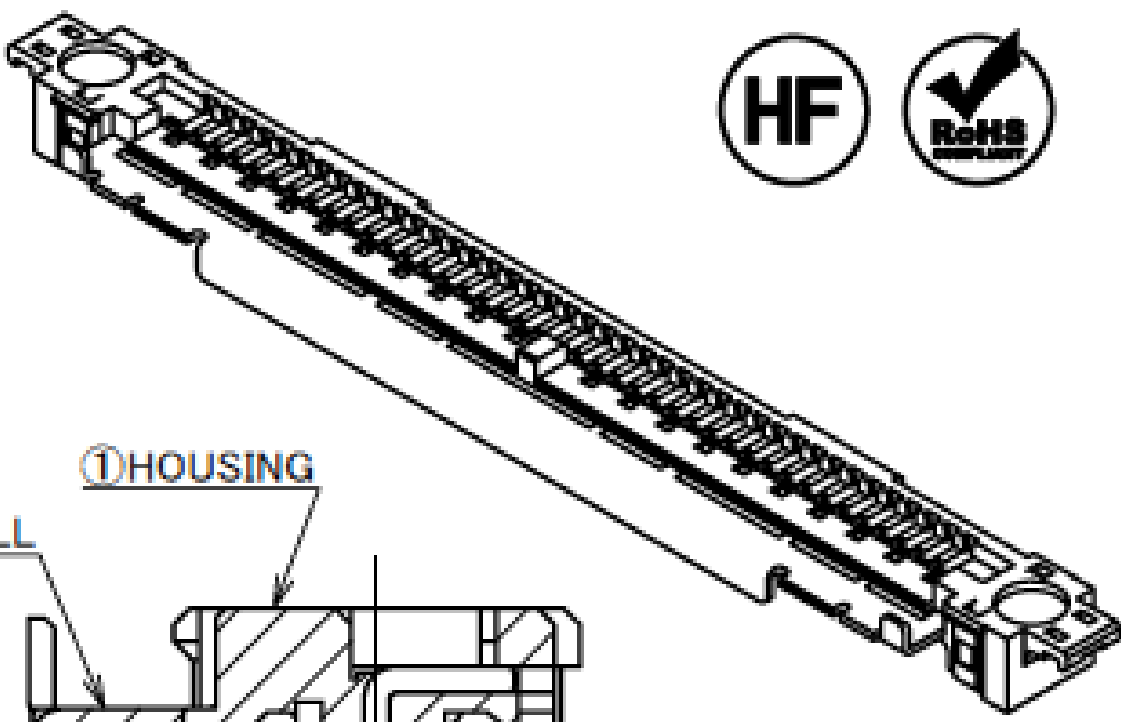
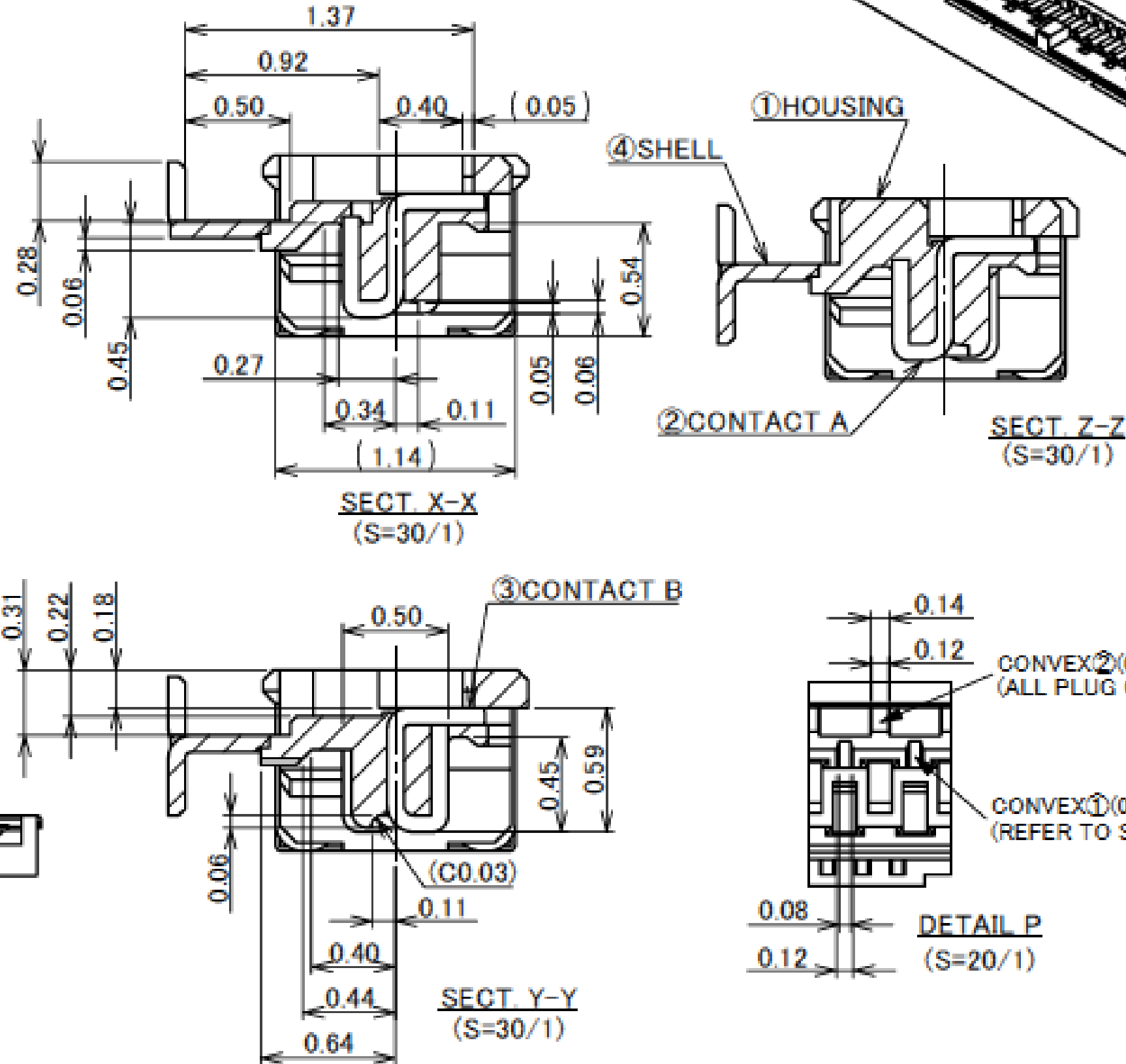
Rev.15

Plug Housing Assembly

RECOMMENDED PART No.		20532-0**T-02-1										
PART No.	Pos	A	B	C	D	E	F	G	H	J	K	L
20532-030T-02-1	30	11.44	10.30	8.70	8.70	7.50	3.75	8.00	8.60	8.00	5.00	7.50
20532-034T-02-1	34	12.44	11.30	9.70	9.70	8.50	4.75	9.00	9.60	9.00	6.00	8.50
20532-040T-02-1	40	13.94	12.80	11.20	11.20	10.00	6.25	10.50	11.10	10.50	7.50	10.00
20532-050T-02-1	50	16.44	15.30	13.70	13.70	12.50	6.25	13.00	13.60	13.00	10.00	12.50

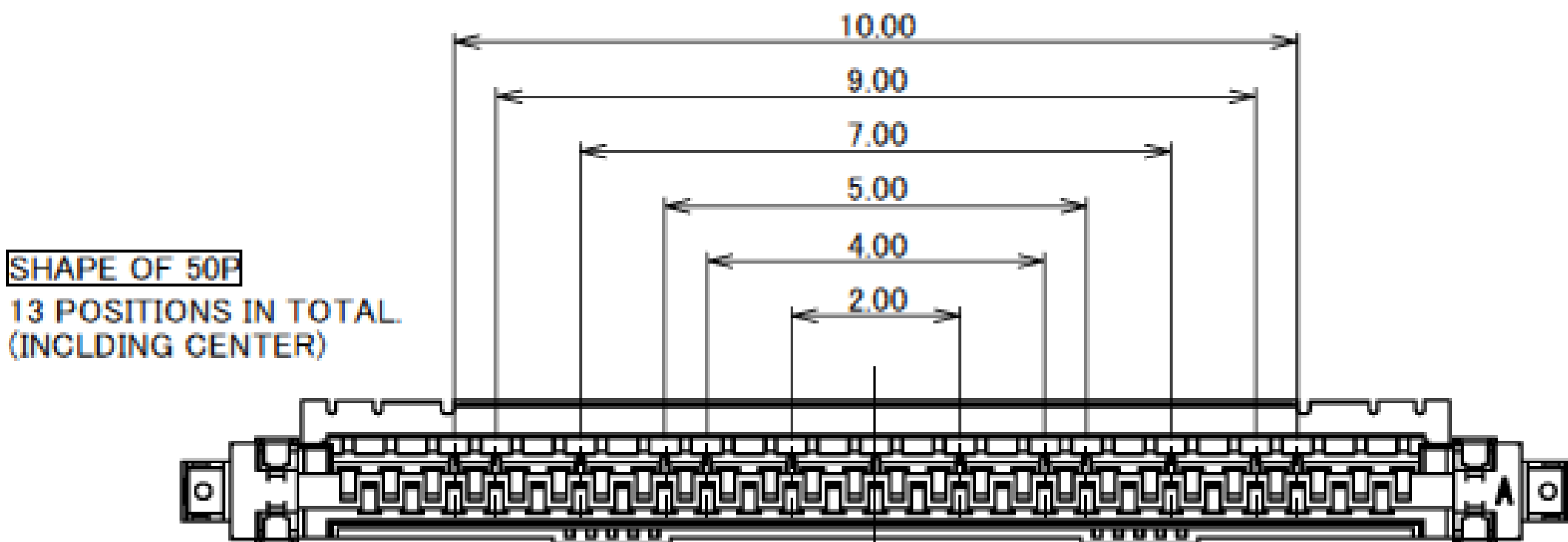
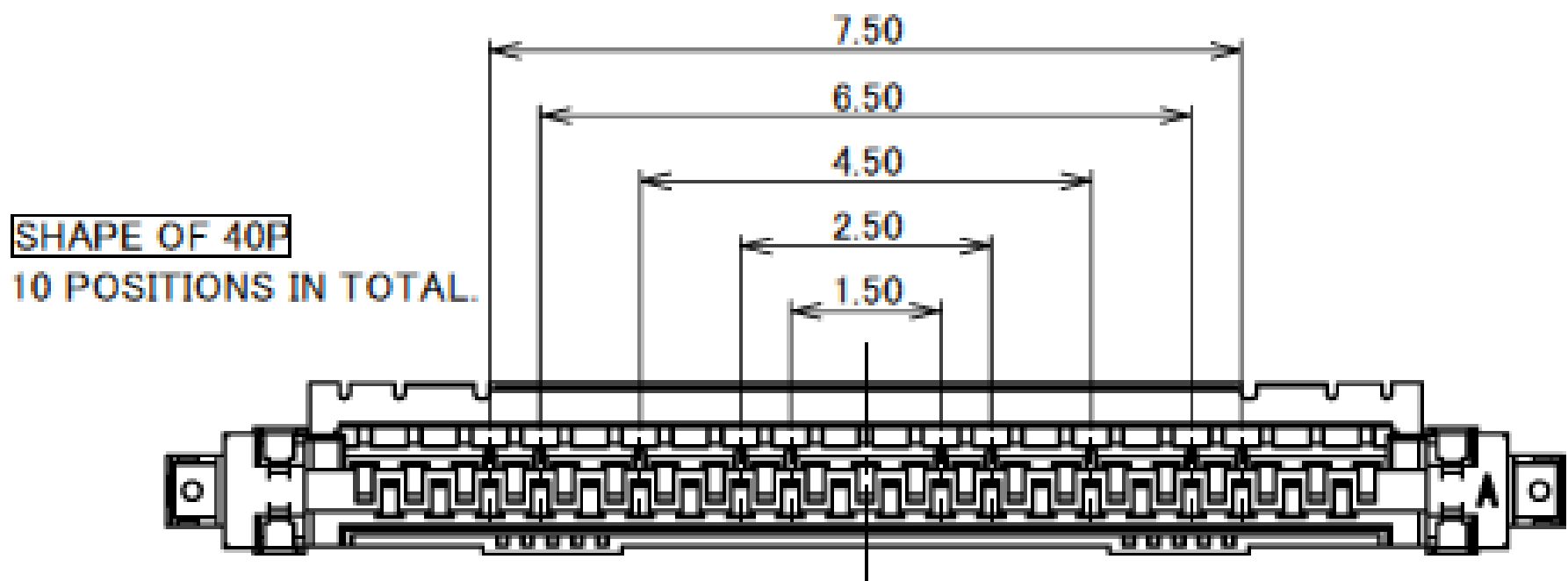
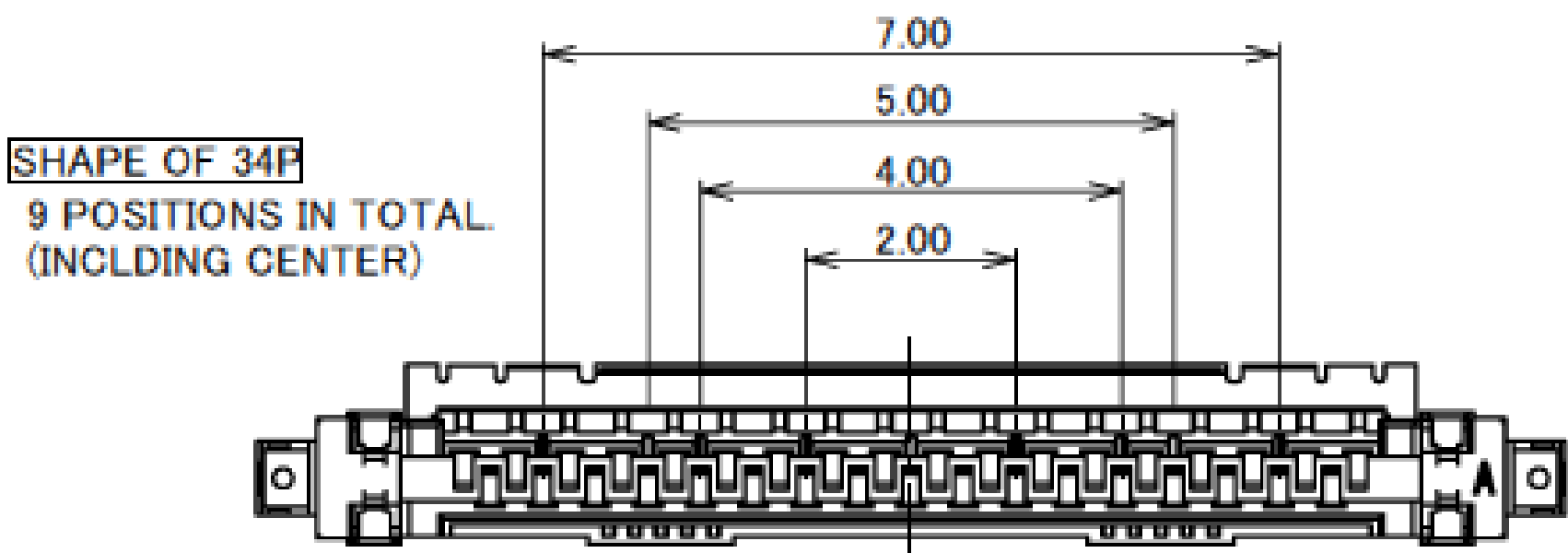
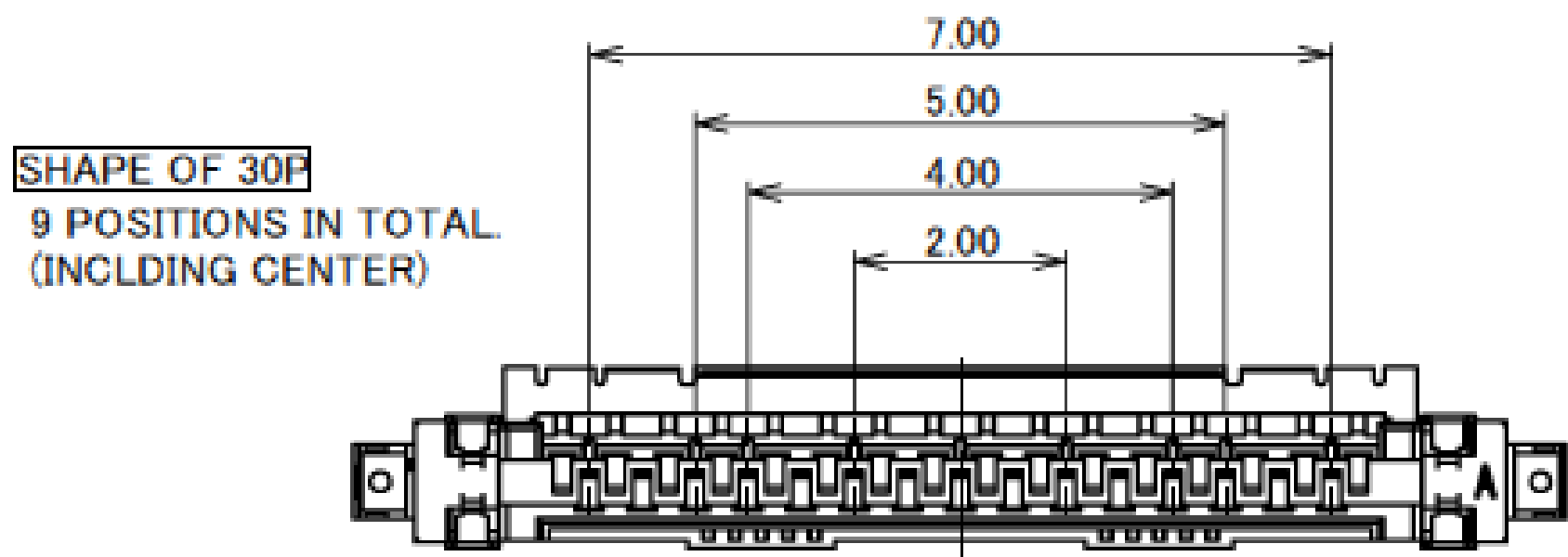


20532-0 ** T-02-1
Pos.



4	SHELL	PHOSPHOR BRONZE	Au 0.05 μm MIN. OVER Ni 1.00 μm MIN.
3	CONTACT B	PHOSPHOR BRONZE	Au 0.1 μm MIN. OVER Ni 1.00 μm MIN.
2	CONTACT A	PHOSPHOR BRONZE	Au 0.1 μm MIN. OVER Ni 1.00 μm MIN.
1	HOUSING	LCP	UL94V-0 BLACK
NO.	DISCRIPTION	MATERIAL	FINISH , REMARKS

Rev.9

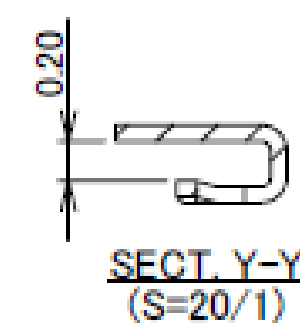
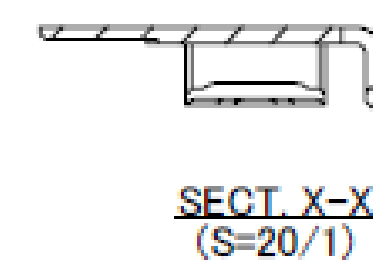
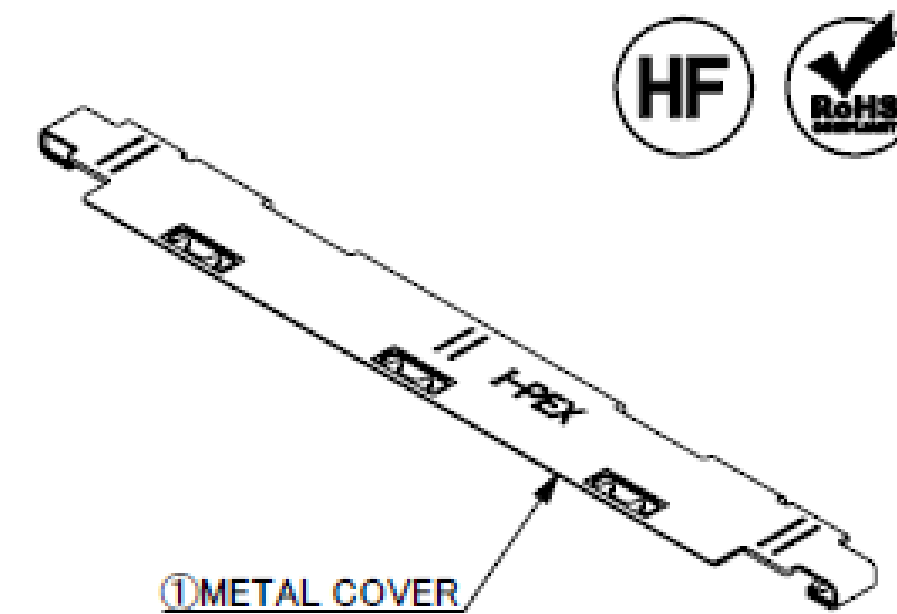
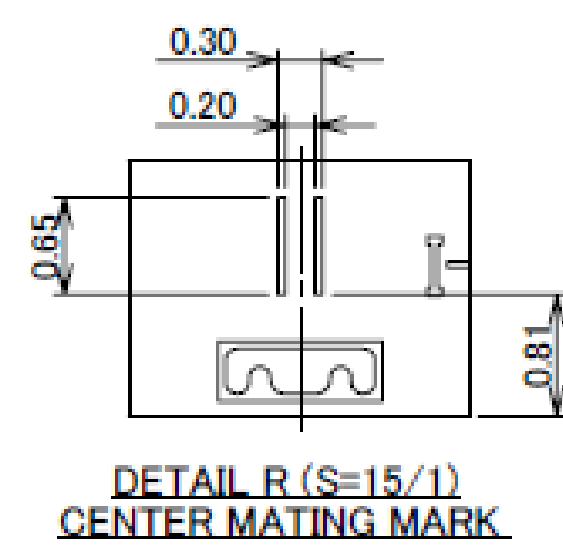
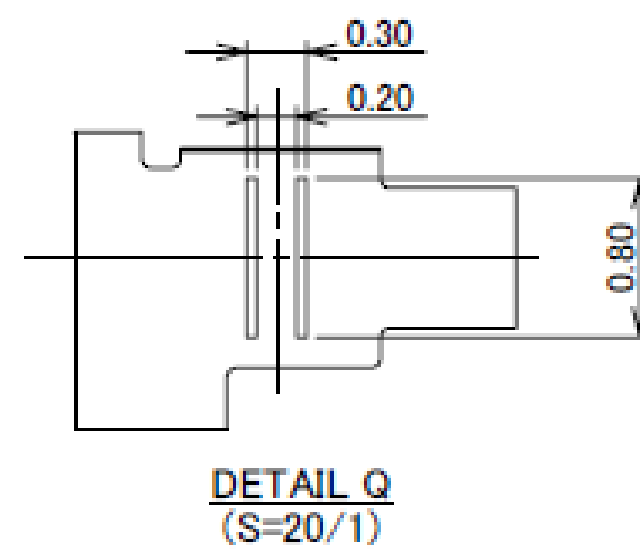
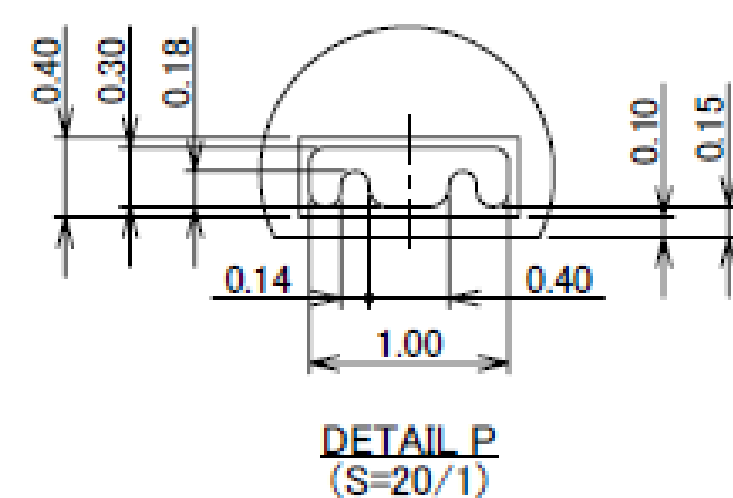
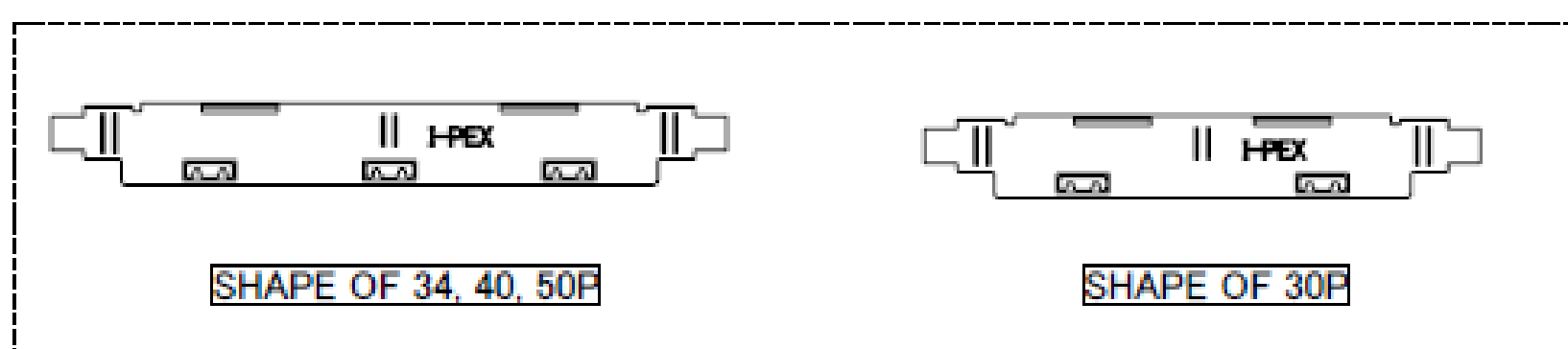
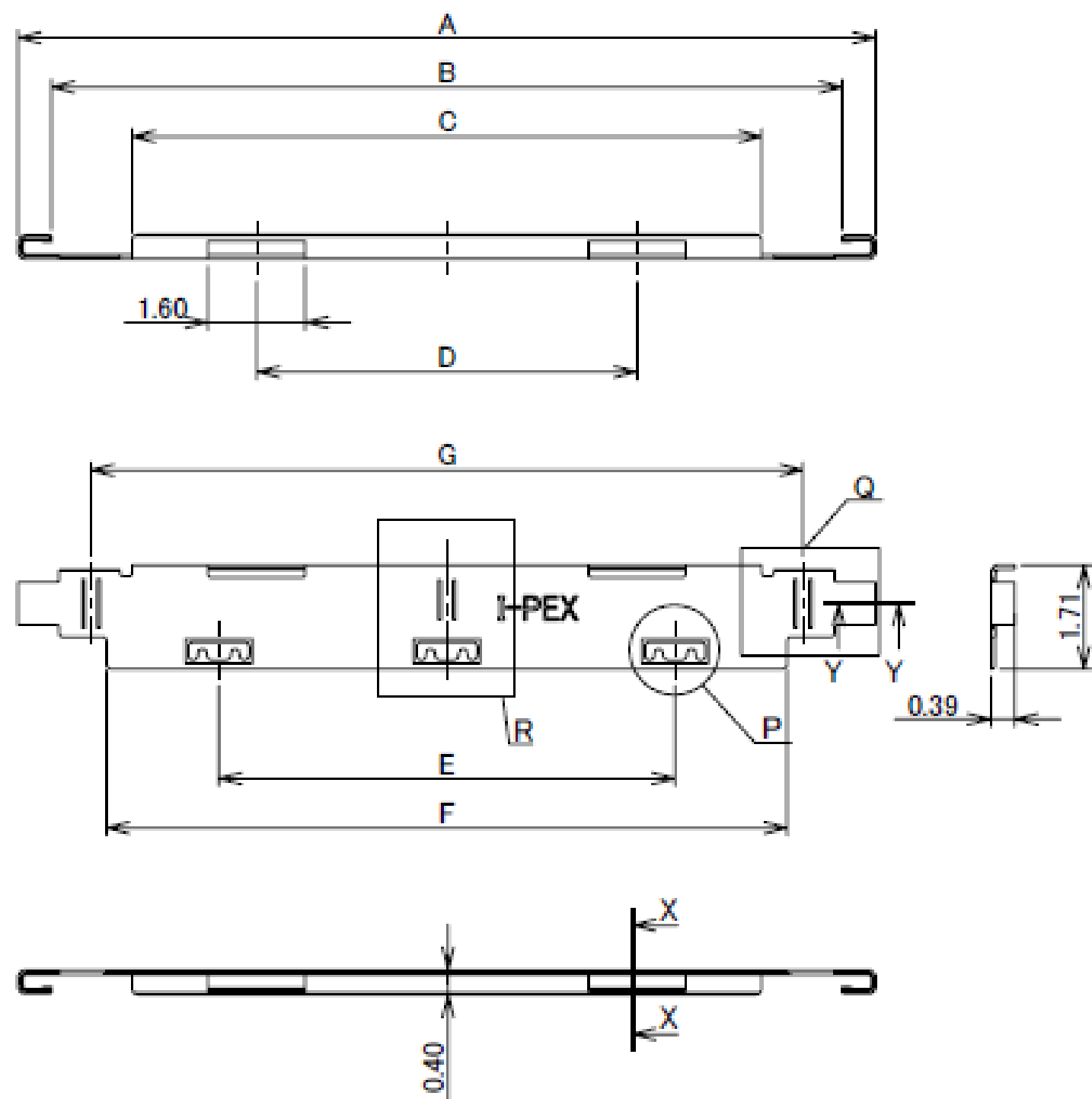


POSITION OF CONVEX(1)

Rev.9

Plug Metal Cover

Recommended P/N		2799-0**1					
PART No.	A	B	C	D	E	F	G
2799-0301	11.60	10.50	7.85	3.75	5.00	8.70	9.20
2799-0341	12.60	11.50	8.85	4.75	6.00	9.70	10.20
2799-0401	14.10	13.00	10.35	6.25	7.50	11.20	11.70
2799-0501	16.60	15.50	12.85	6.25	10.00	13.70	14.20



1	METAL COVER	SUS	Au 0.05 μ m MIN. OVER Ni 1.00 μ m MIN.
NO.	DISCRIPTION	MATERIAL	FINISH , REMARKS

Rev.9

Receptacle Assembly

RECOMMENDED PART No.		20533-2**E			
PART NO.	Pos.	A	B	C	D
20533-230E	30	11.20	7.50	10.11	1.60
20533-234E	34	12.20	8.50	11.11	2.10
20533-240E	40	13.70	10.00	12.61	2.85
20533-250E	50	16.20	12.50	15.11	4.10

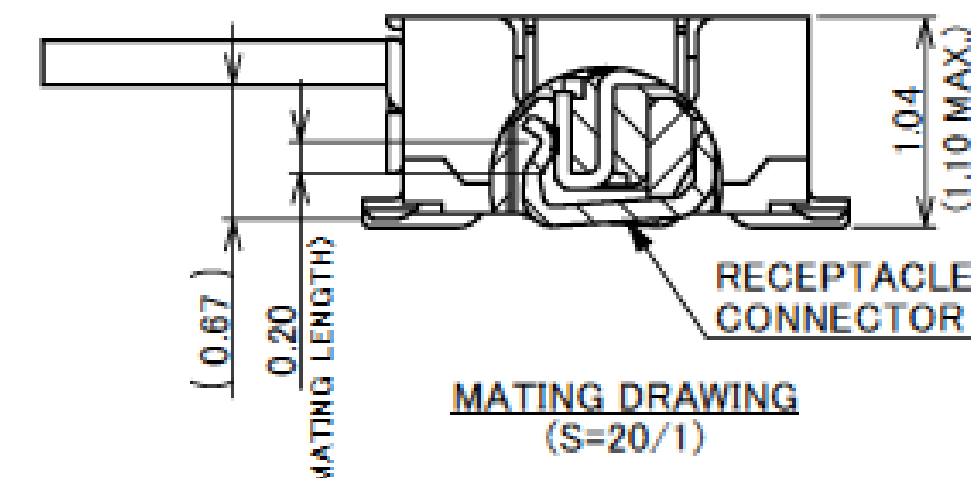
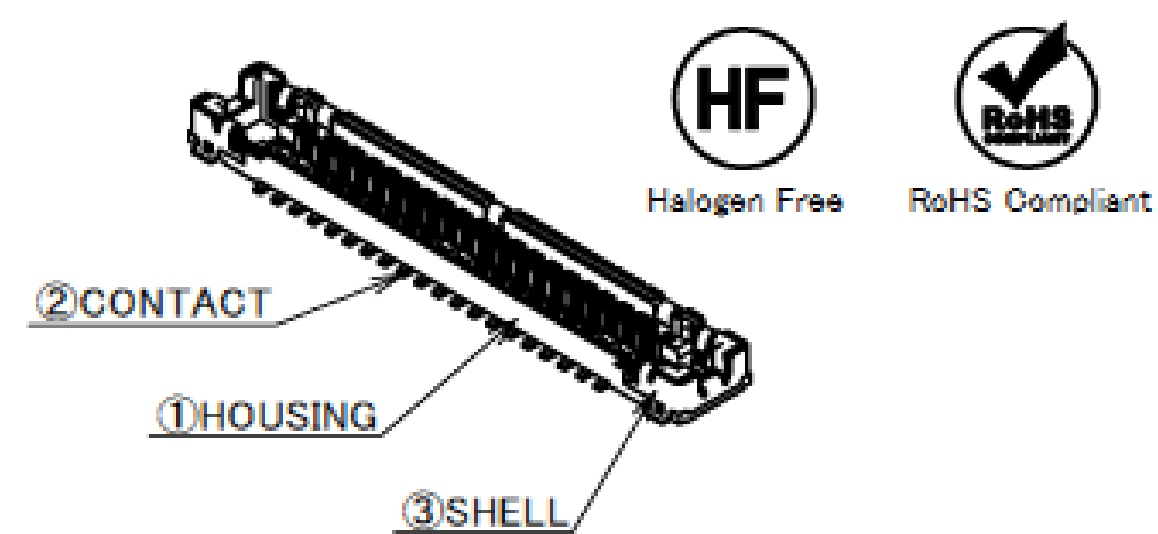
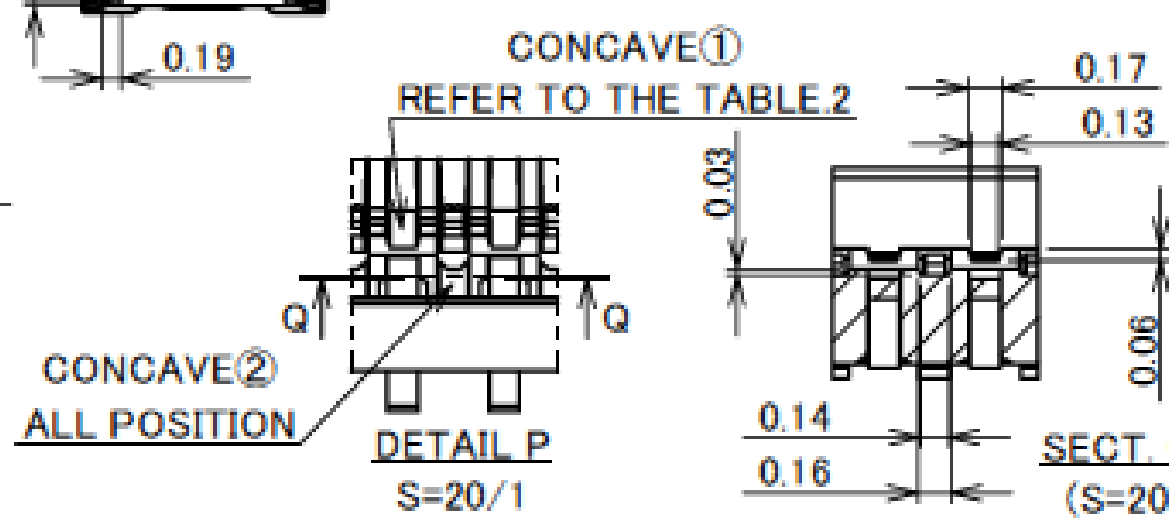
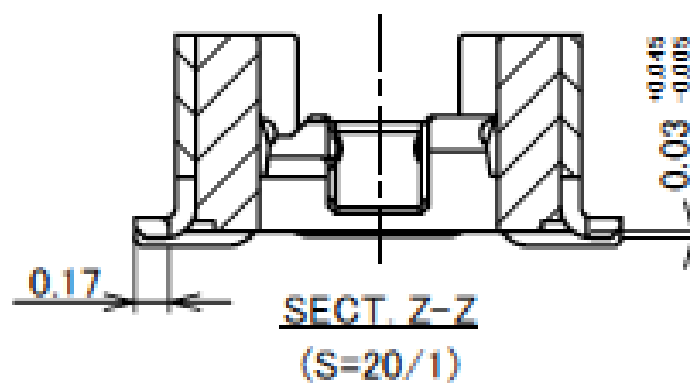
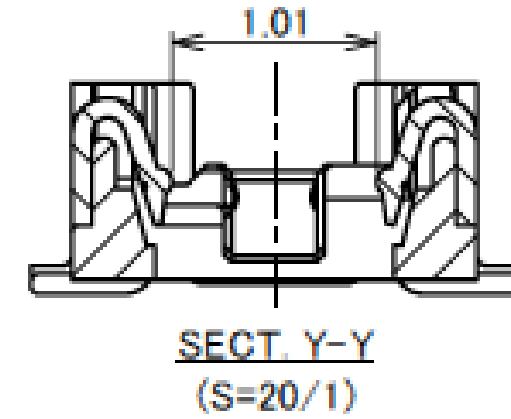
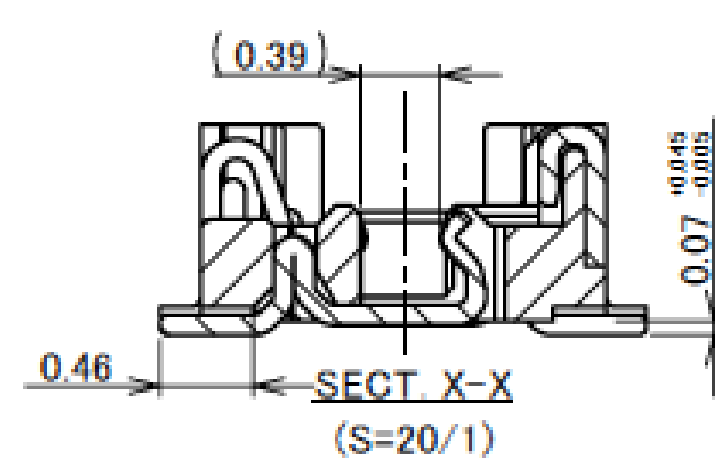
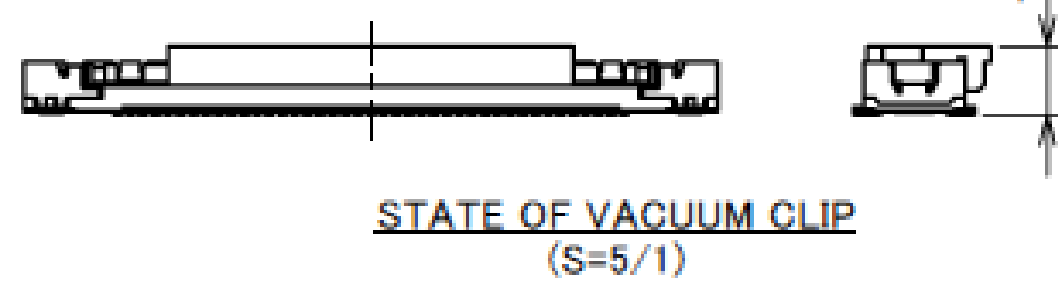
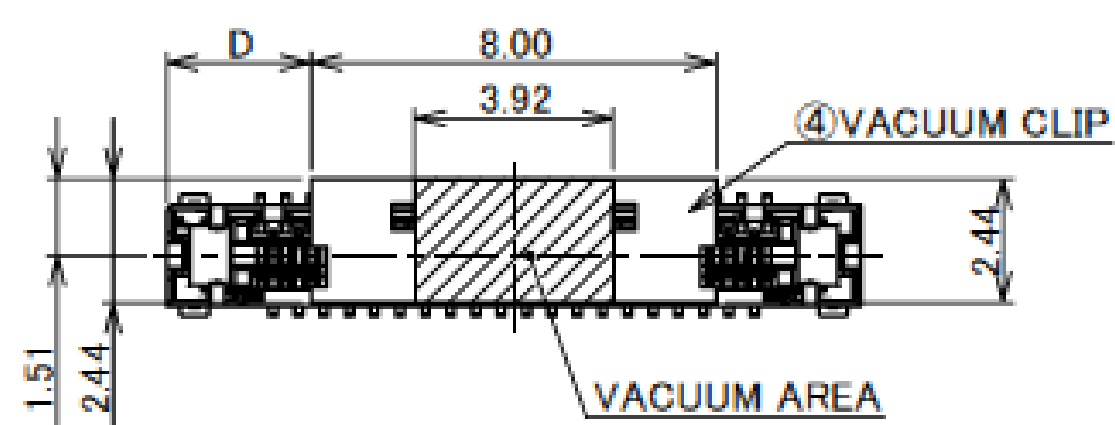
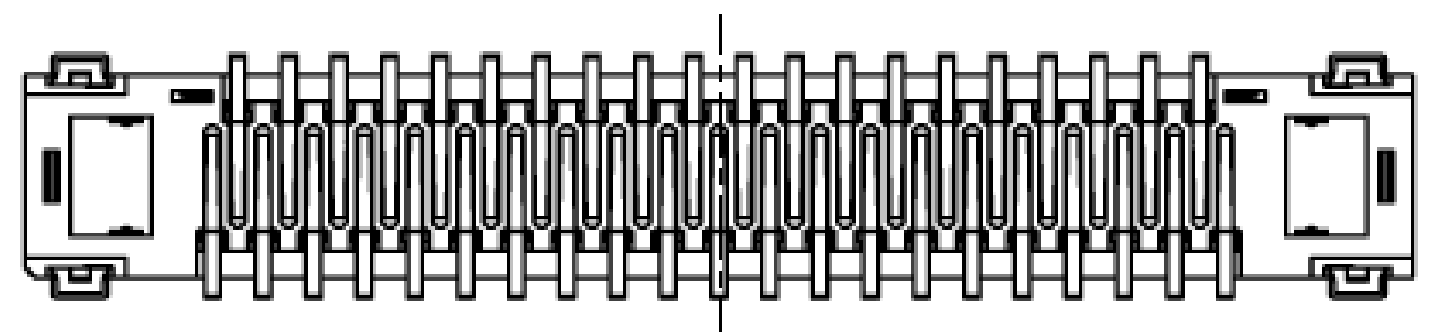
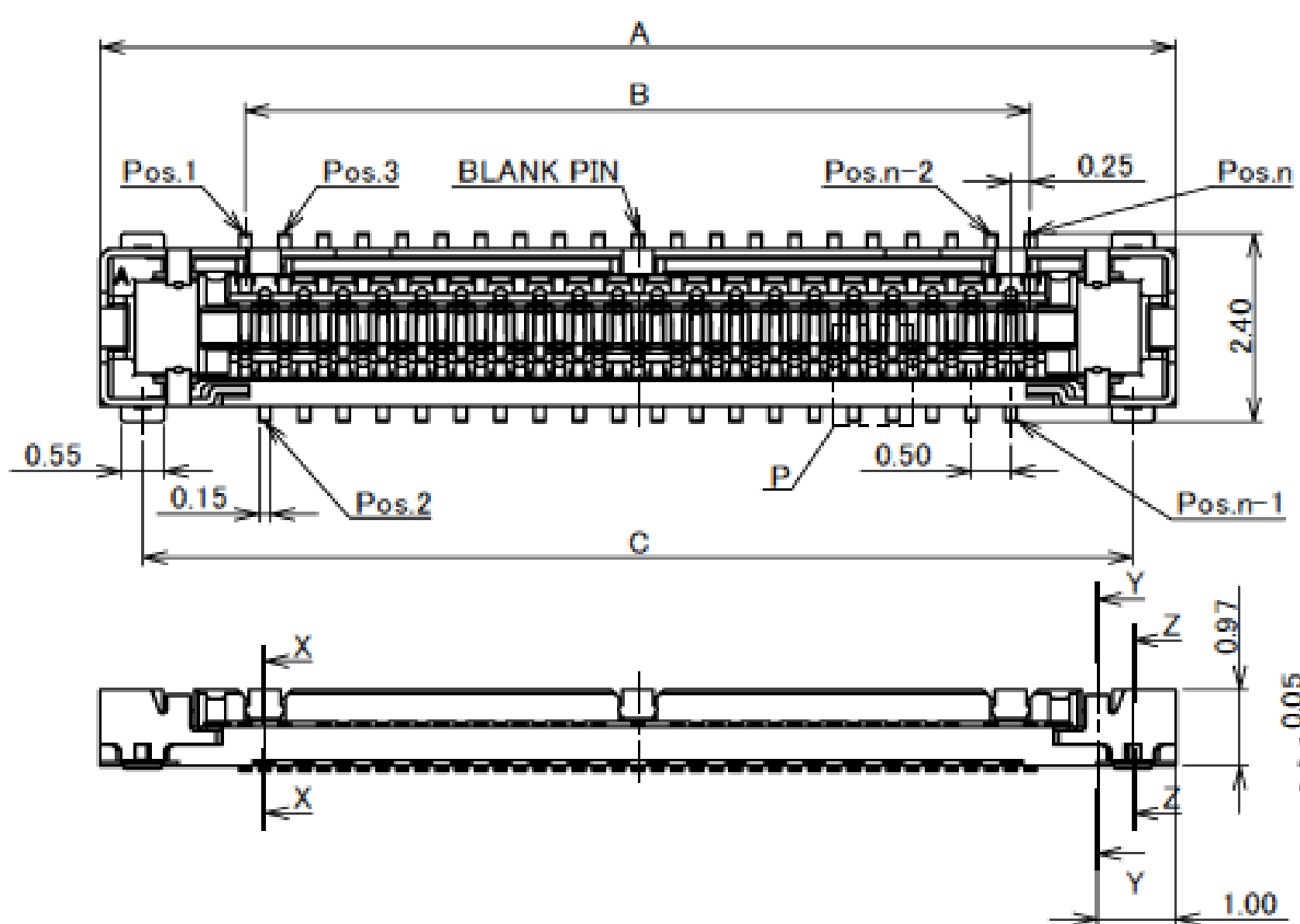
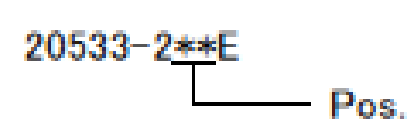


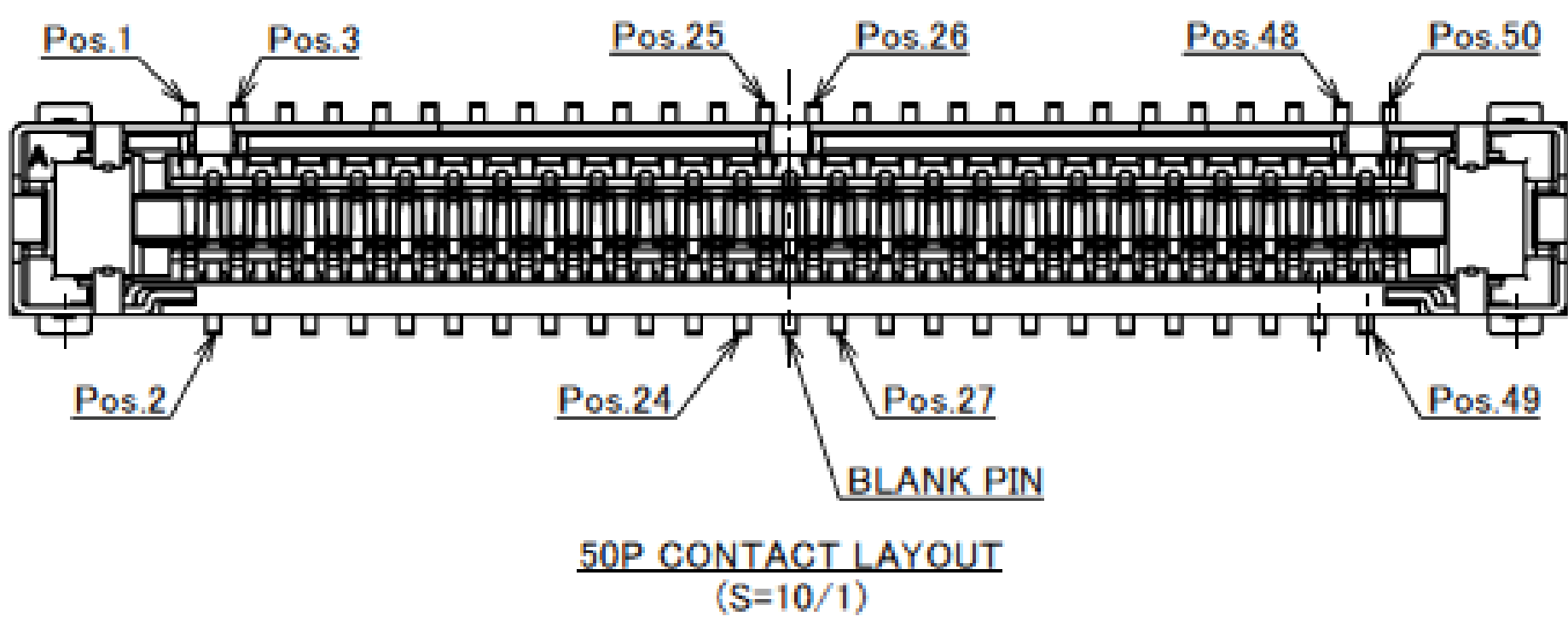
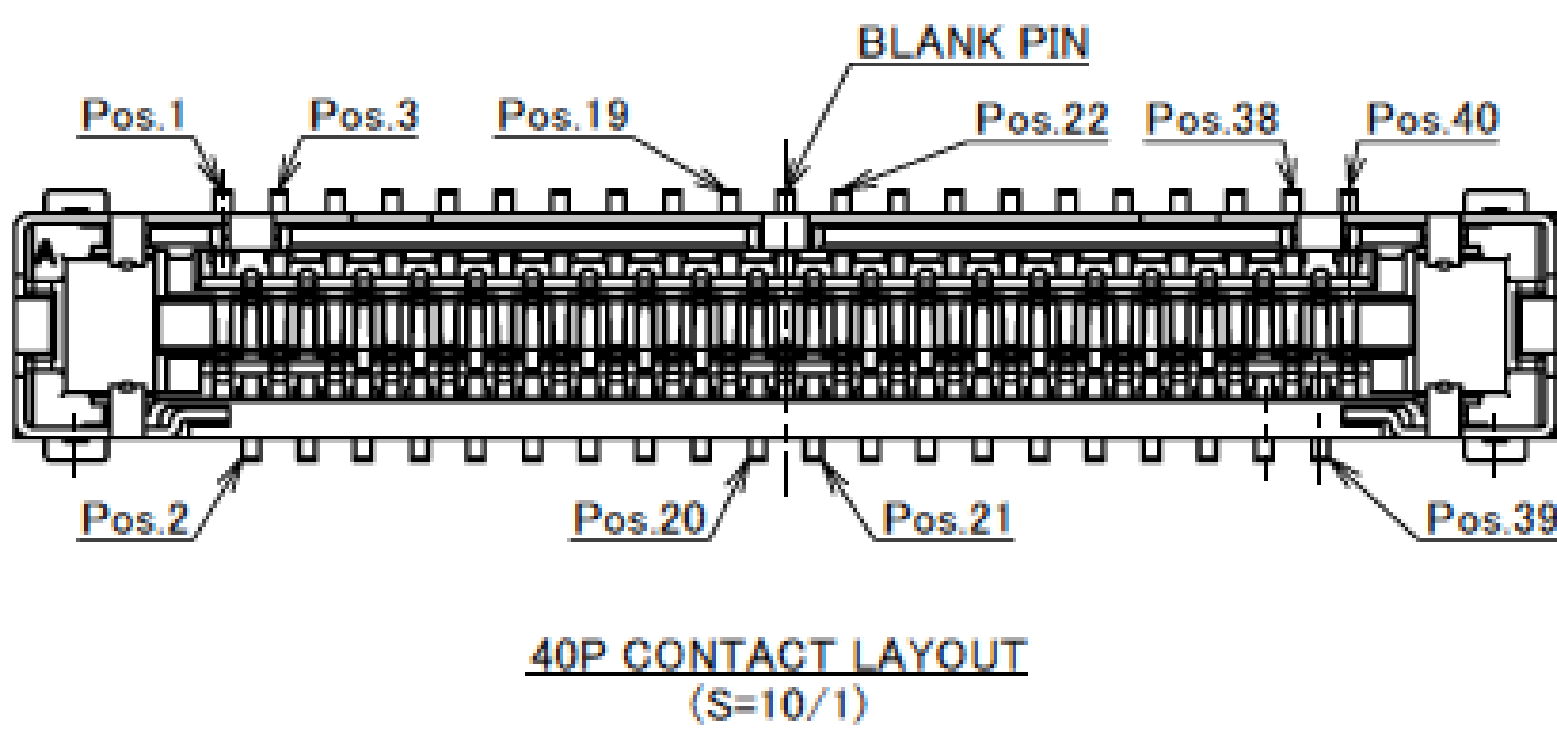
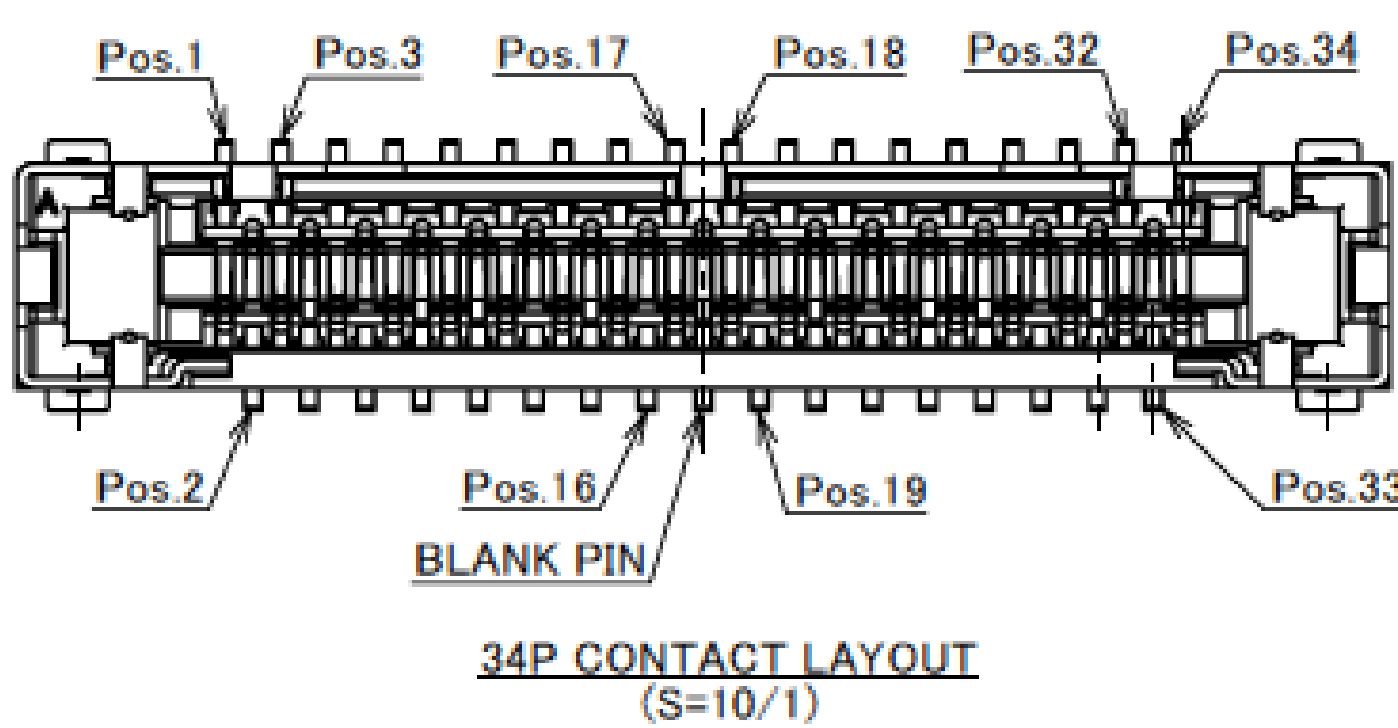
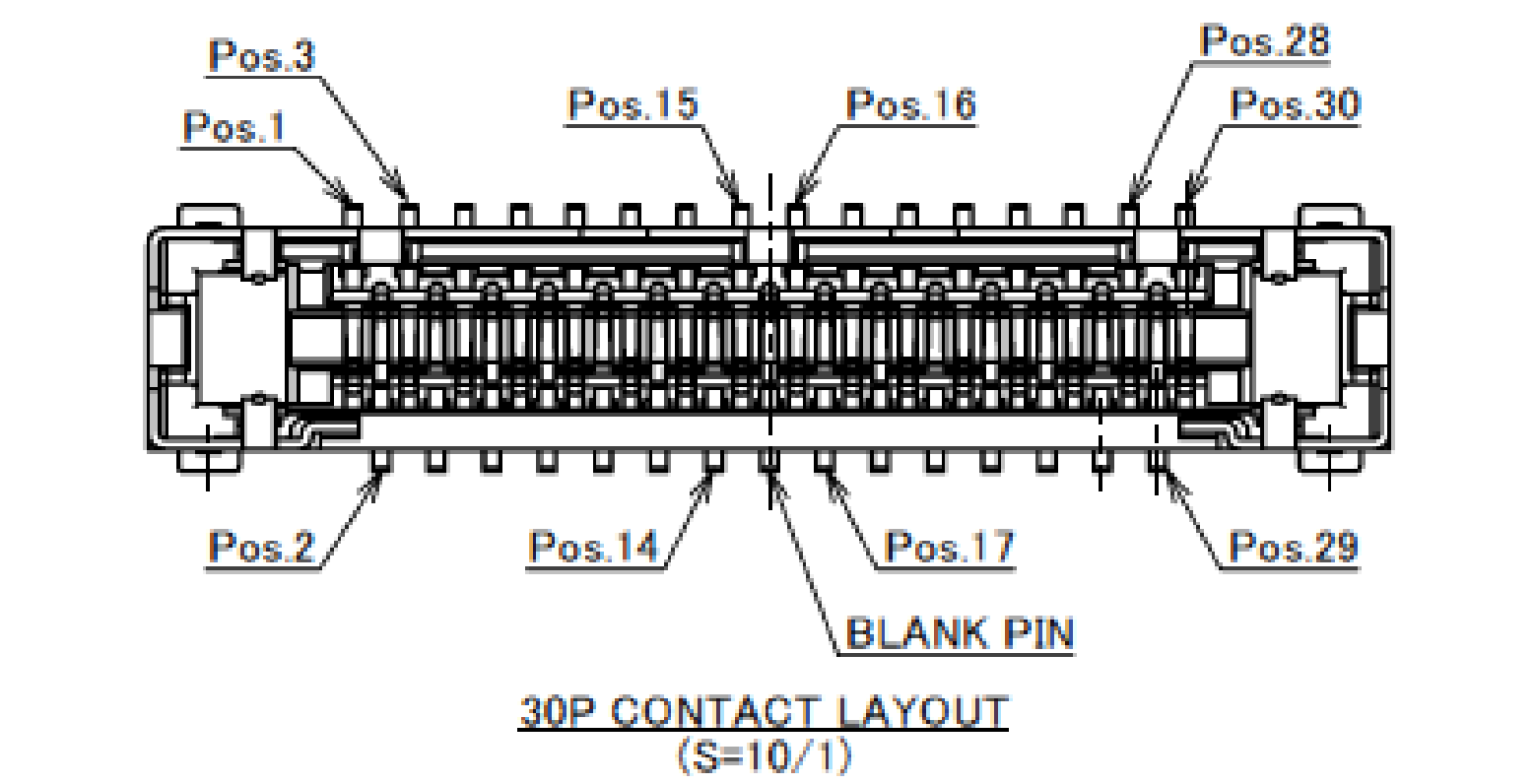
TABLE 2	
POSITION OF CONCAVE①	
30P :	2, 6, 8, 12, BLANK PIN, 19, 23, 25, 29 pos. (9 POSITIONS)
34P :	4, 8, 10, 14, BLANK PIN, 21, 25, 27, 31 pos. (9 POSITIONS)
40P :	6, 8, 12, 14, 18, 23, 25, 29, 33, 35 pos. (10 POSITIONS)
50P :	6, 8, 12, 14, 18, 22, BLANK PIN, 29, 33, 37, 39, 43, 45 pos. (13 POSITIONS)

4	VACUUM CLIP	LCP	UL94V-0, BEIGE
3	SHELL	PHOSPHOR BRONZE	Au 0.02 μ m MIN. OVER Ni 1.00 μ m MIN.
2	COTANCT	PHOSPHOR BRONZE	CONTACT AREA : Au 0.1 μ m MIN. OVER Ni 1.00 μ m MIN. SOLDERING AREA : Au 0.05 μ m MIN. OVER Ni 1.00 μ m MIN.
1	HOUSING	LCP	UL94V-0, BLACK
NO	DISCRIPTION	MATERIAL	FINISH , REMARKS

Rev.17

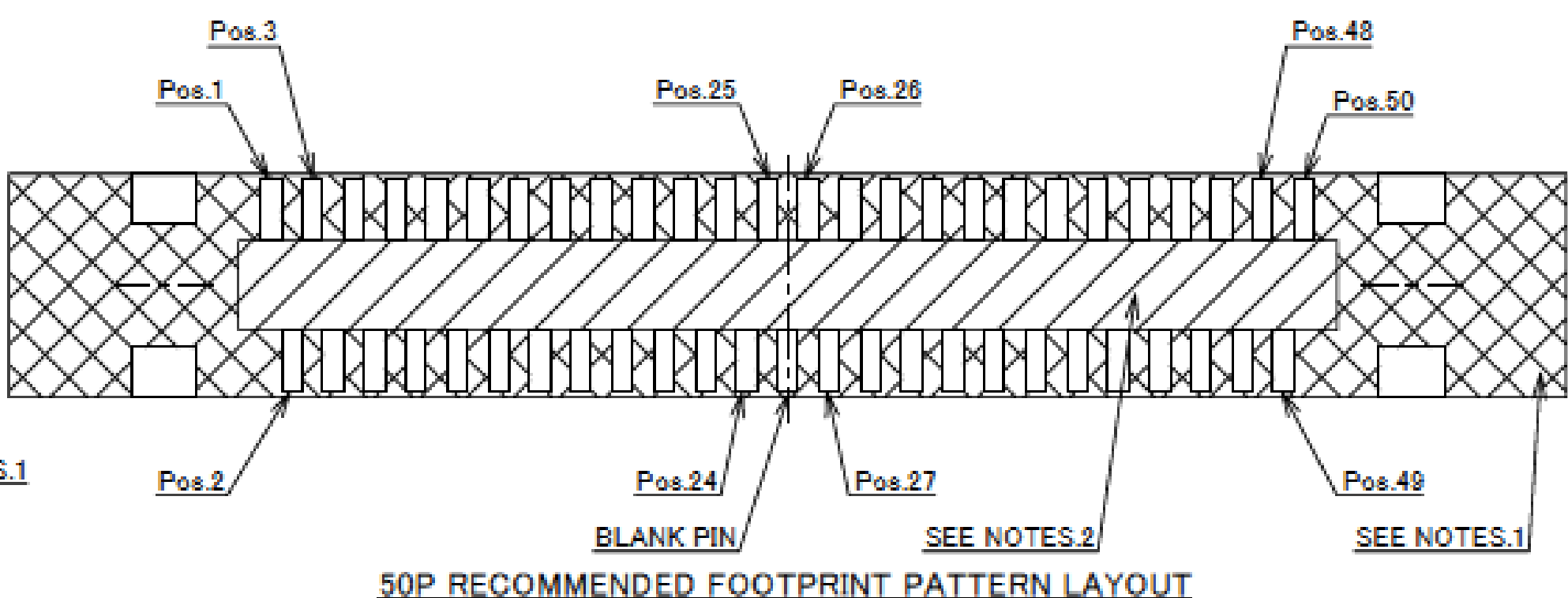
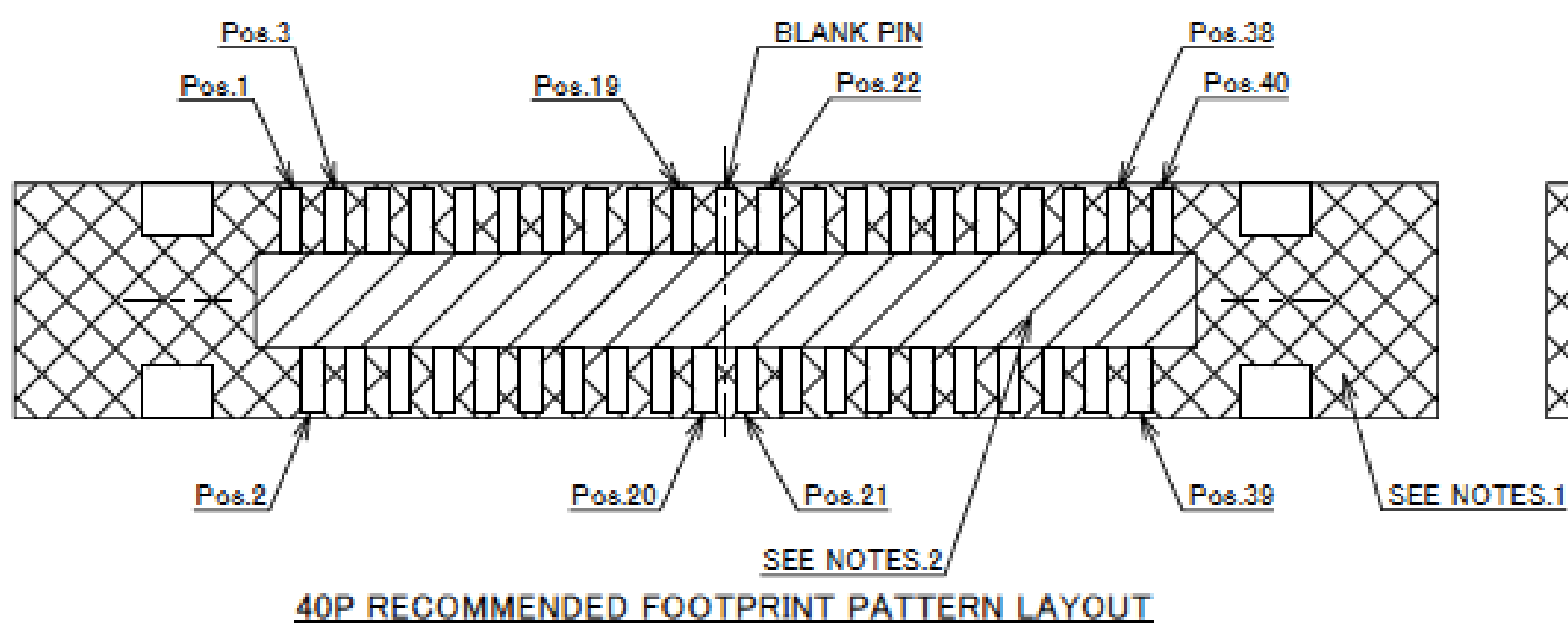
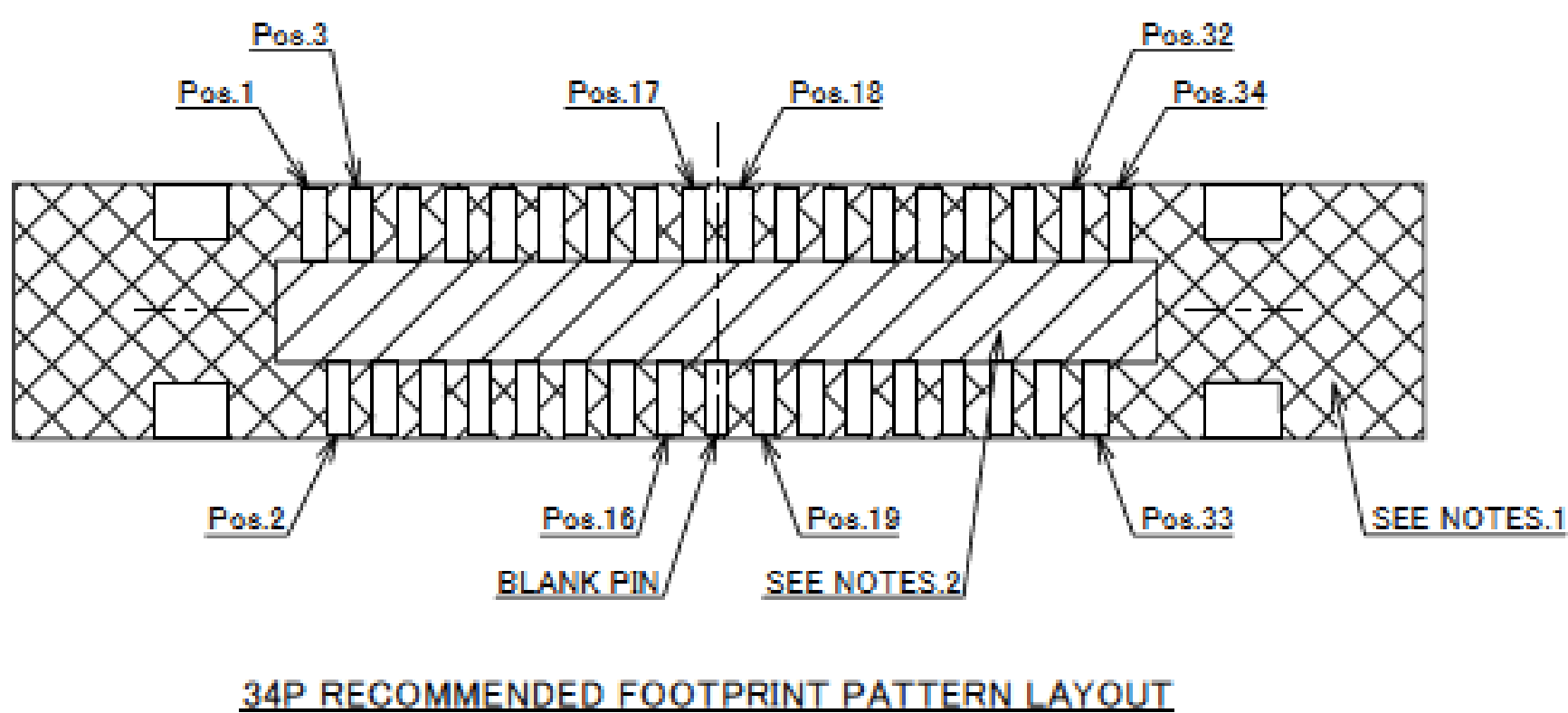
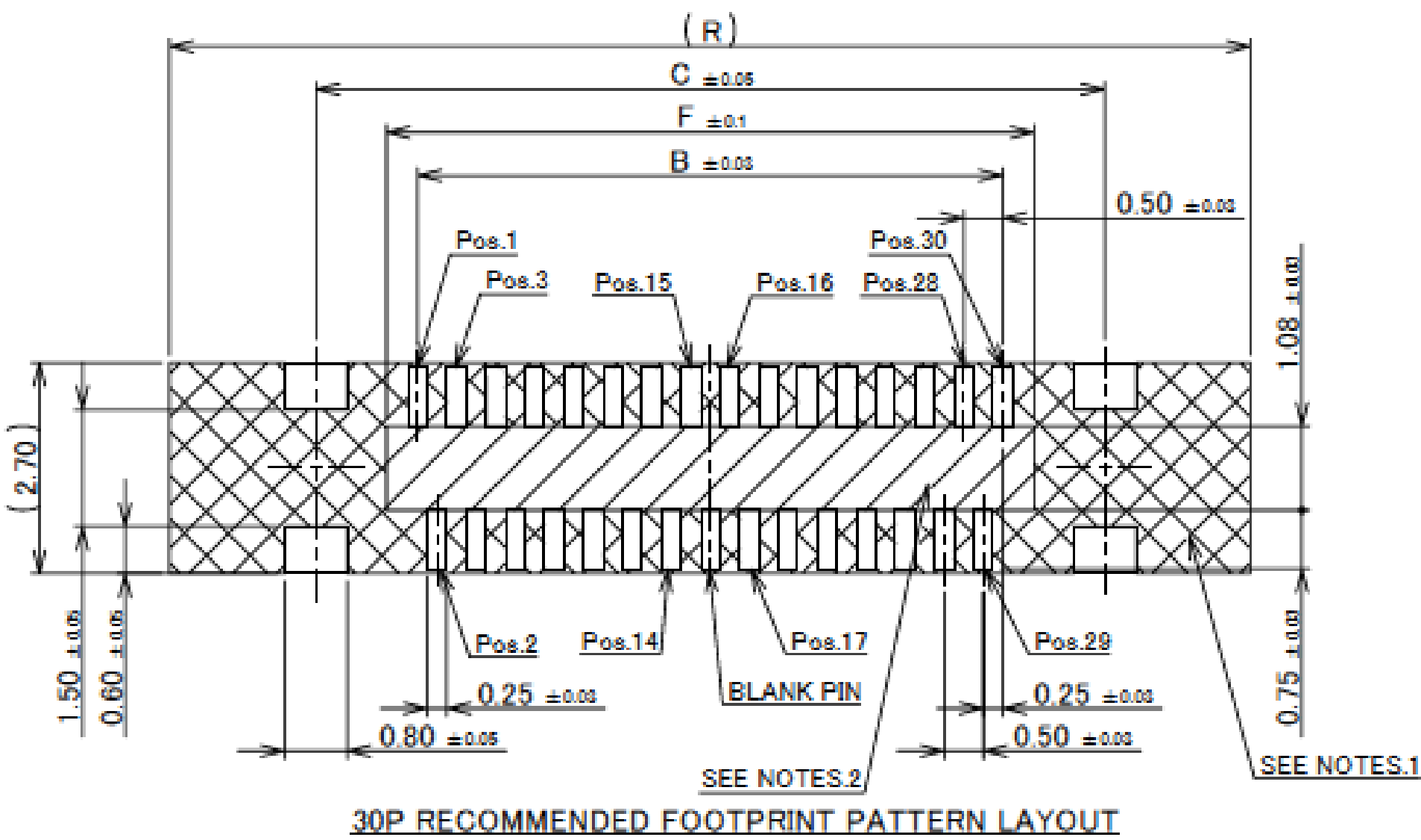
Receptacle Assembly

PART No.	Pos
20533-230E	30
20533-234E	34
20533-240E	40
20533-250E	50



Rev.17

PART No.	Pos	B	C	F	R
20533-230E	30	7.50	10.11	8.30	13.85
20533-234E	34	8.50	11.11	9.30	14.85
20533-240E	40	10.00	12.61	10.80	16.35
20533-250E	50	12.50	15.11	13.30	18.85

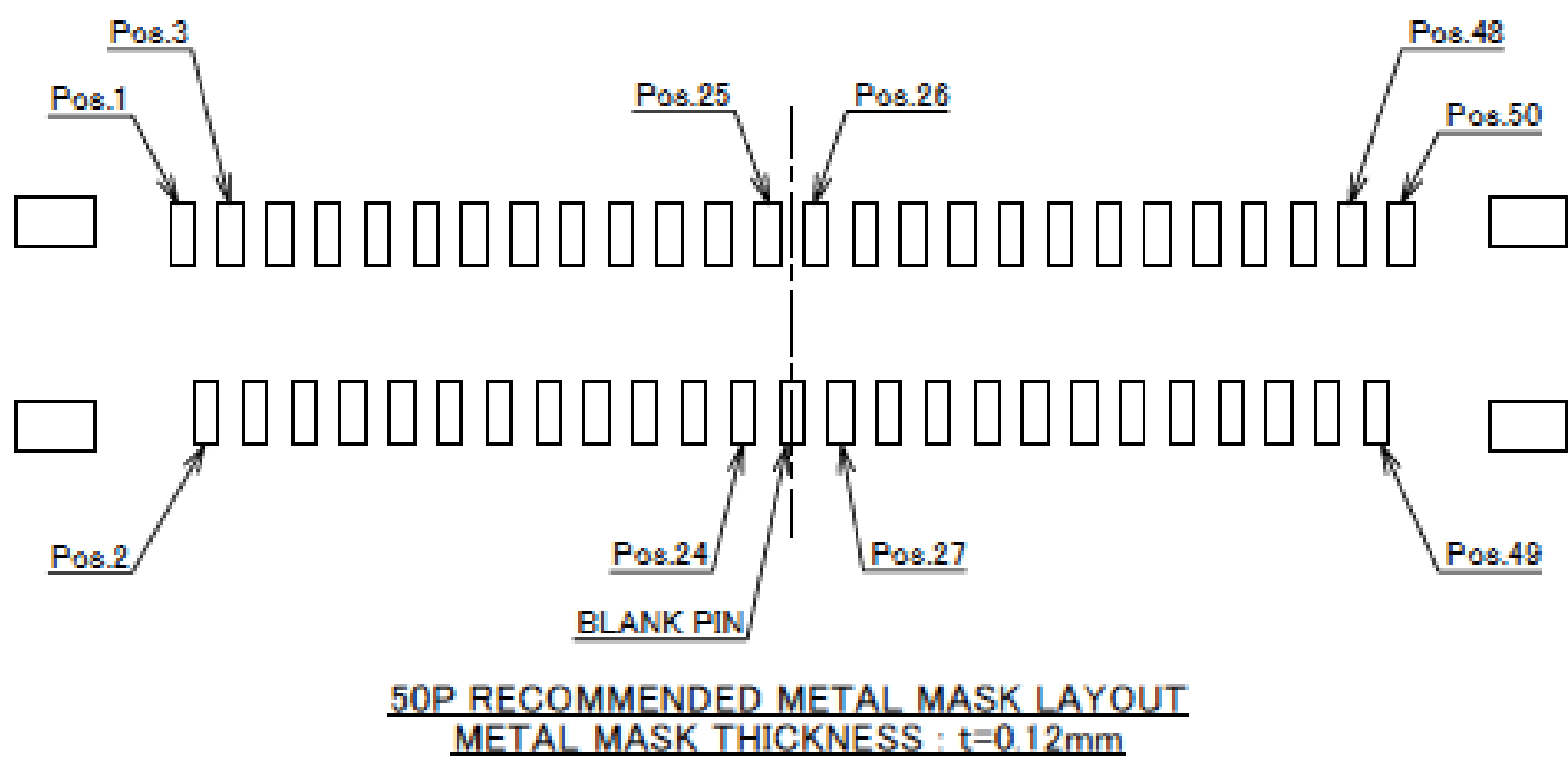
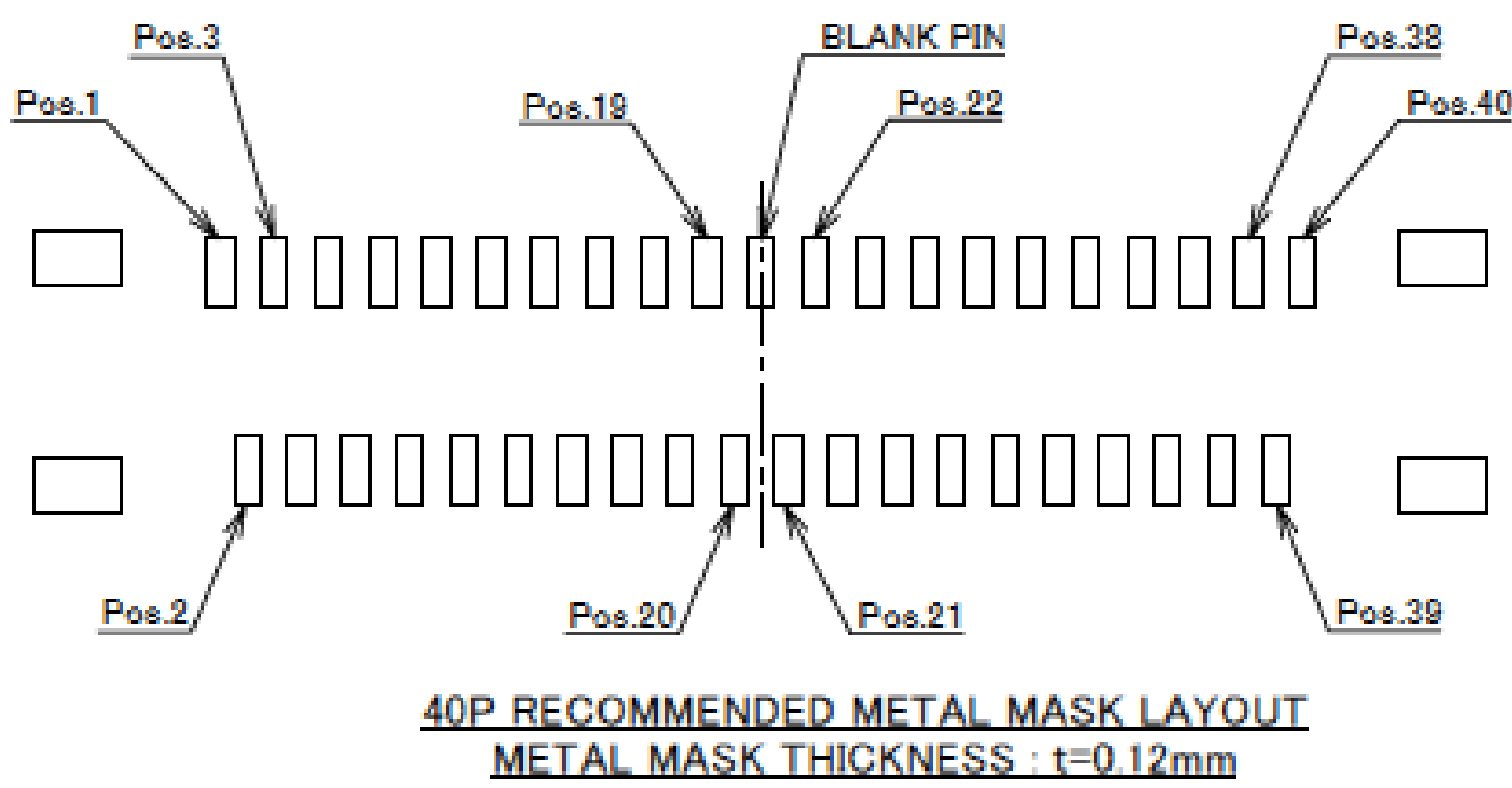
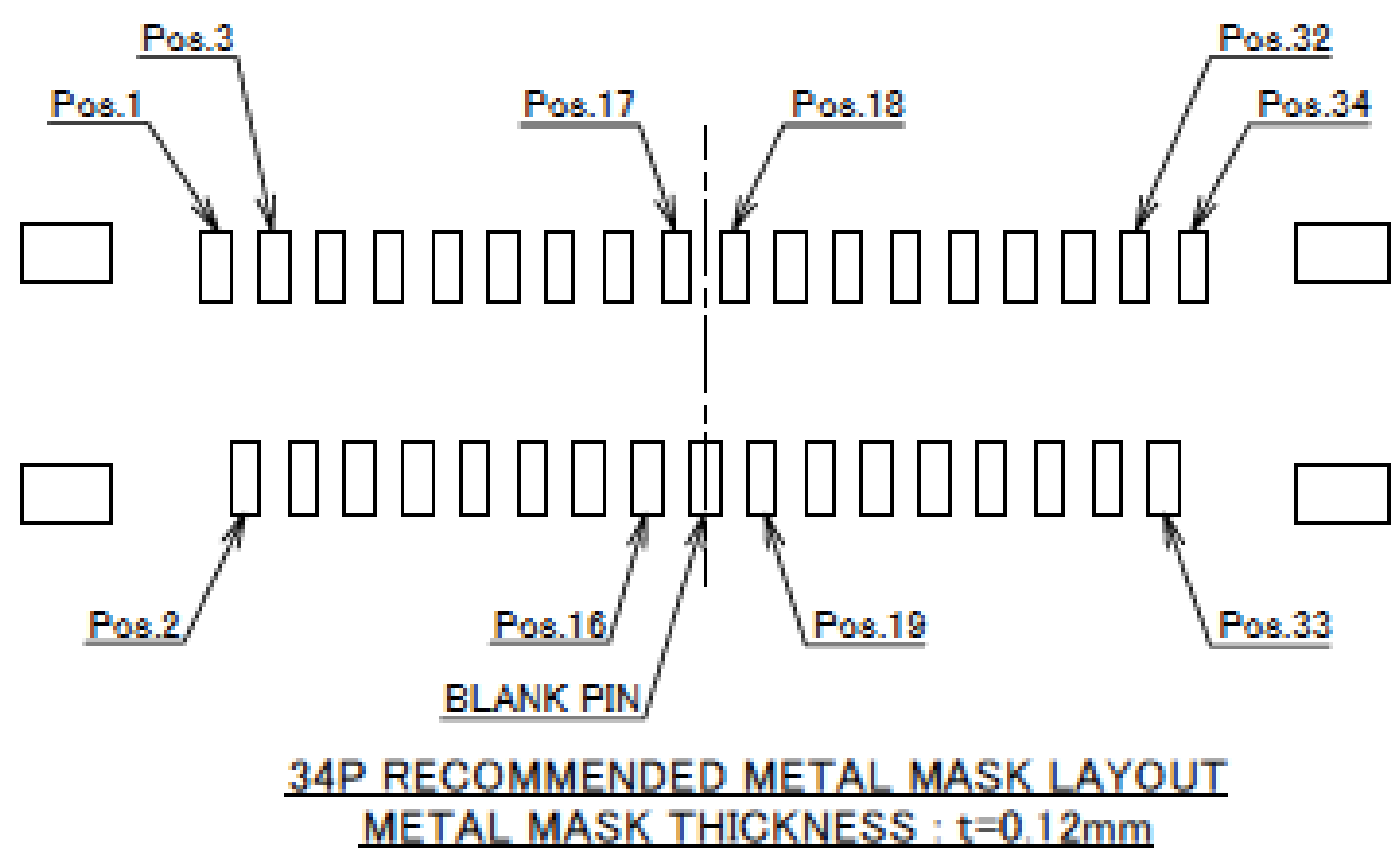
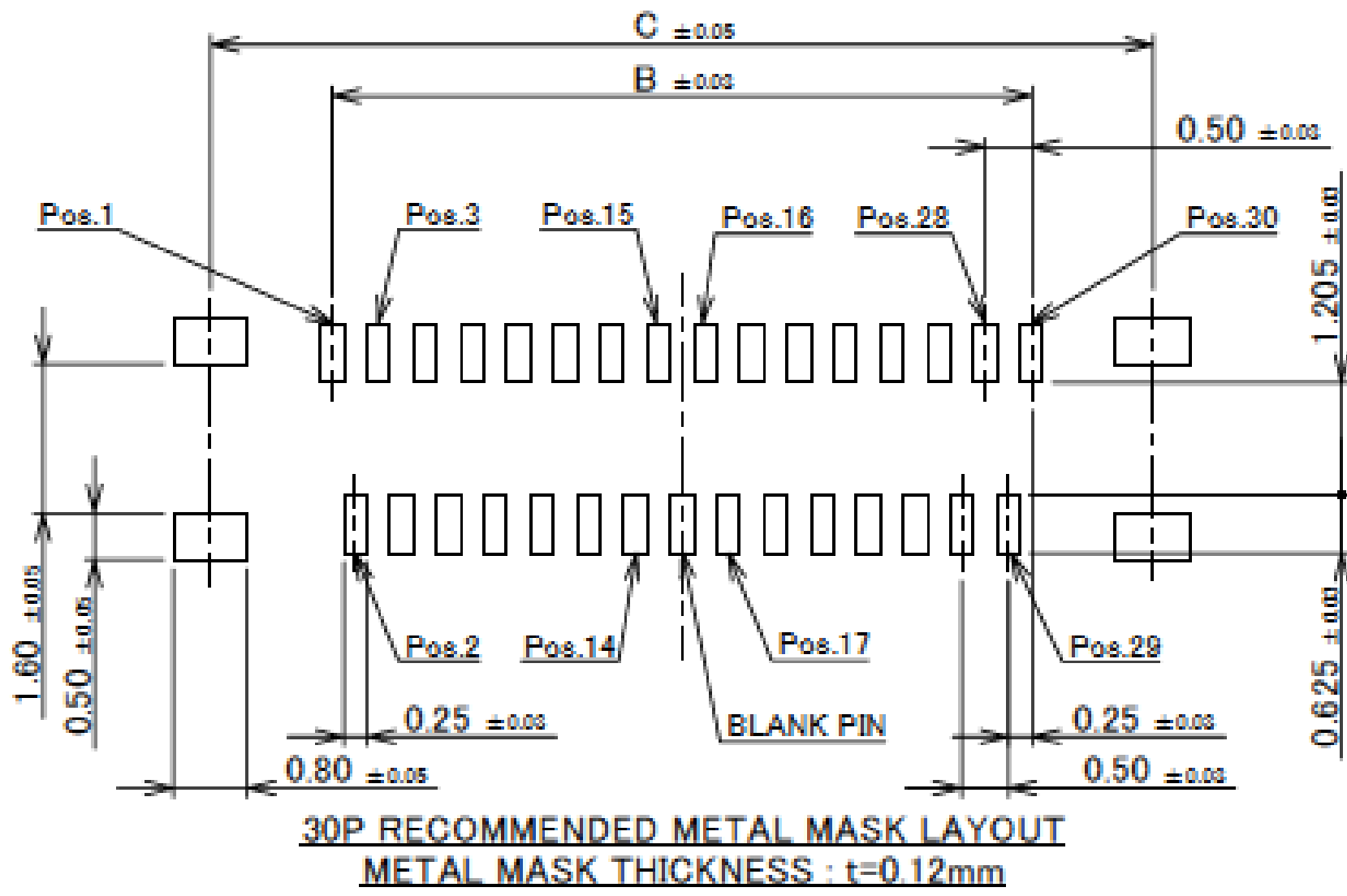


NOTES.
1. DO NOT MOUNT ANOTHER COMPONENT IN THIS AREA.
2. SOLDER RESIST MUST BE APPLIED TO THIS AREA.

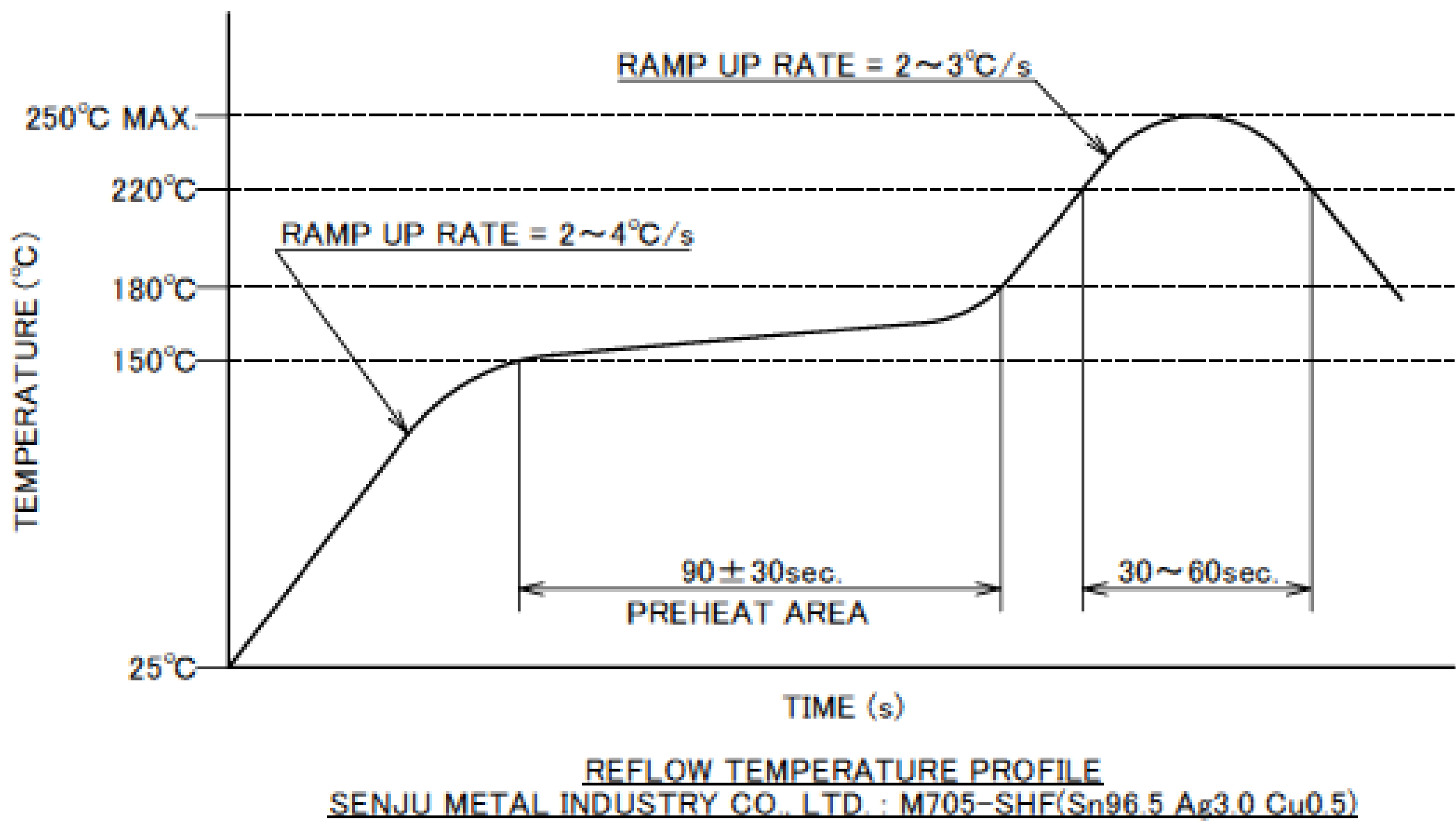
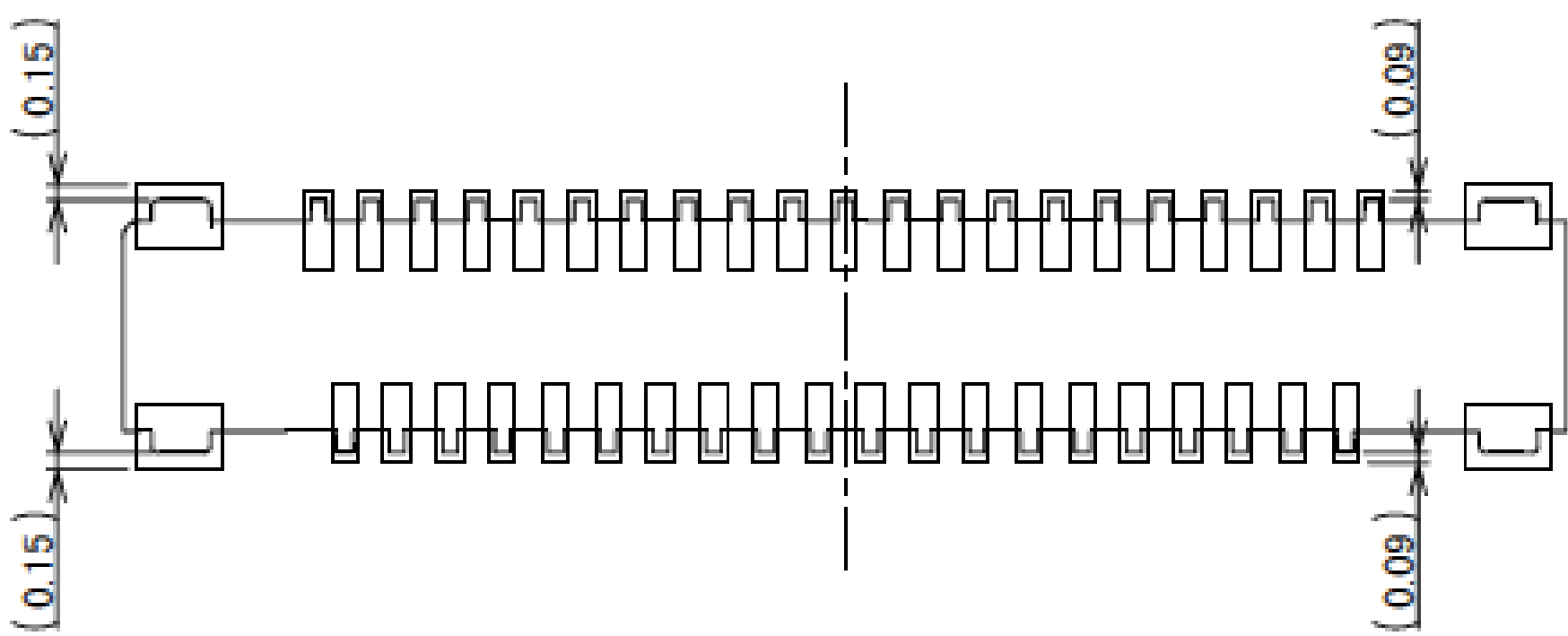
Rev.17

Receptacle Assembly

PART No.	Pos	B	C
20533-230E	30	7.50	10.11
20533-234E	34	8.50	11.11
20533-240E	40	10.00	12.61
20533-250E	50	12.50	15.11



Rev.17



Rev.17

Receptacle Assembly

ITEMS	SPECIFICATION
APPLICABLE CABLE	MICRO-COAXIAL CABLE : AWG# 44 ,46 DISCRETE WIRE : AWG#39
RATING VOLTAGE	50V 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.
RATING AMPERAGE (FOR CONTACT)	0.50A AC/DC [AWG#39] (PER CONTACT PIN / UP TO 6 CONTACTS) 0.15A AC/DC [AWG#44] 0.10A AC/DC [AWG#46] ※TESTING BY A REAL MACHINE IS RECOMMENDED BECAUSE TEMPERATURE RISE MAY BE AFFECTED BY ACTUAL SITUATION
OPERATING TEMPERATURE	233~358K(-40℃~+85℃)
OPERATING HUMIDITY	75% MAX.(NON-CONDENSING)
CONTACT RESISTANCE	INITIAL : 450mohm MAX.(AWG#39) 1080mohm MAX.(AWG#44) 1880mohm MAX.(AWG#46) AFTER TEST : ≦40mohm MAX.
GROUND SHELL RESISTANCE	INITIAL : 100mohm MAX. / AFTER TEST : ≦40mohm MAX.
INSULATION RESISTANCE	INITIAL : 100Mohm MIN. / AFTER TEST : 100Mohm MIN.
DIELECTRIC WITHSTANDING VOLTAGE	AC100V 1min
DURABILITY	20 CYCLES
MATING FORCE (INITIAL / AFTER TEST)	30P : 26.4N MAX. 34P : 27.6N MAX. 40P : 29.4N MAX. 50P : 32.4N MAX.
UNMATING FORCE (INITIAL / AFTER TEST)	30P : 1.5N MIN. 34P : 1.9N MIN. 40P : 2.5N MIN. 50P : 3.5N MIN.
CABLE RETENTION FORCE	30P : 15.0N MIN. 34P : 17.0N MIN. 40P : 20.0N MIN. 50P : 25.0N MIN.
COPLANARITY	0.10mm MAX.
PRODUCT SPECIFICATION	PRS-2887
TEST REPORT	TR-24028
INSTRUCTION MANUAL	HIM-10001
PACKING STANDARD	300-874
APPEARANCE CRITERIA No.	QLS-A***

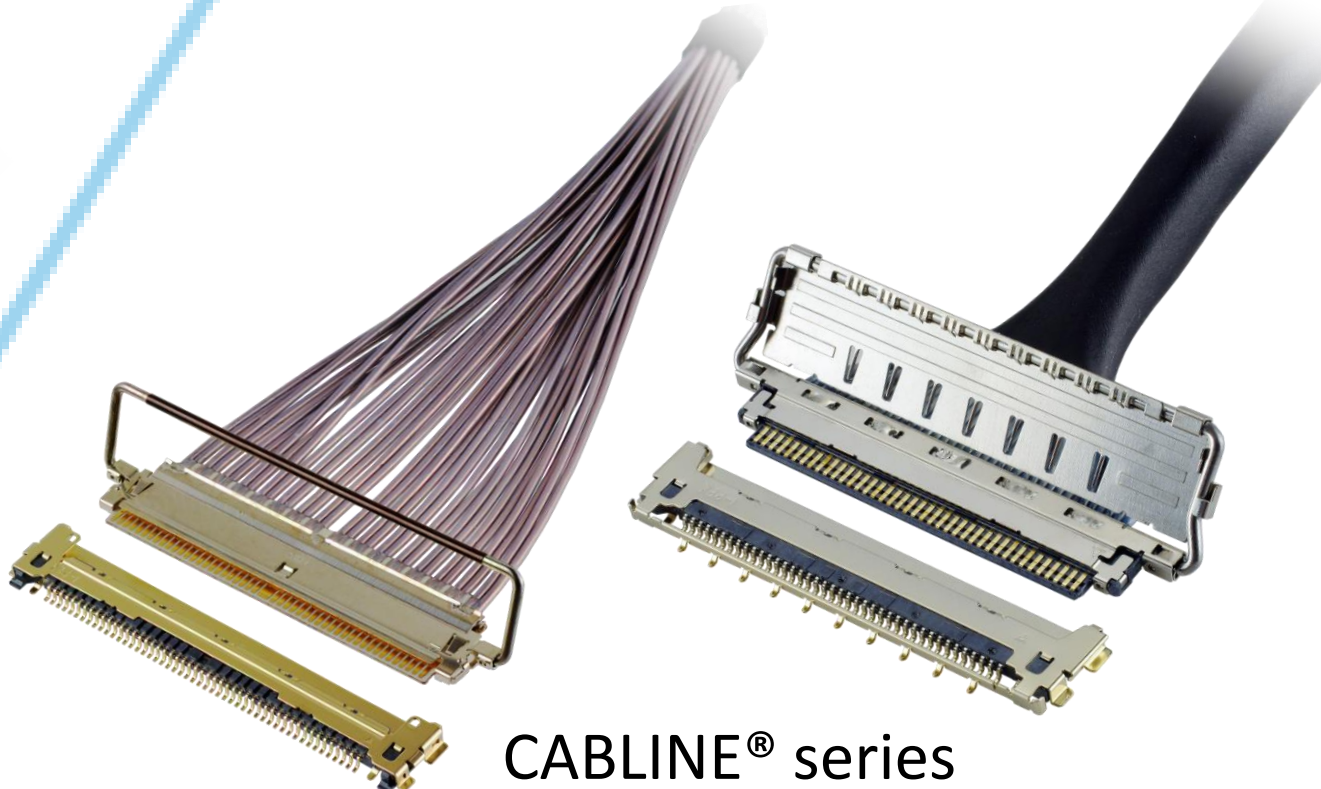
Custom Connectors Available

 RF
Connectors

MHF® series



CABLINE® series



Micro-Coaxial/Twinax
Connectors



Wire-to-Board
Connectors/
Terminals

AP series



ISH® series



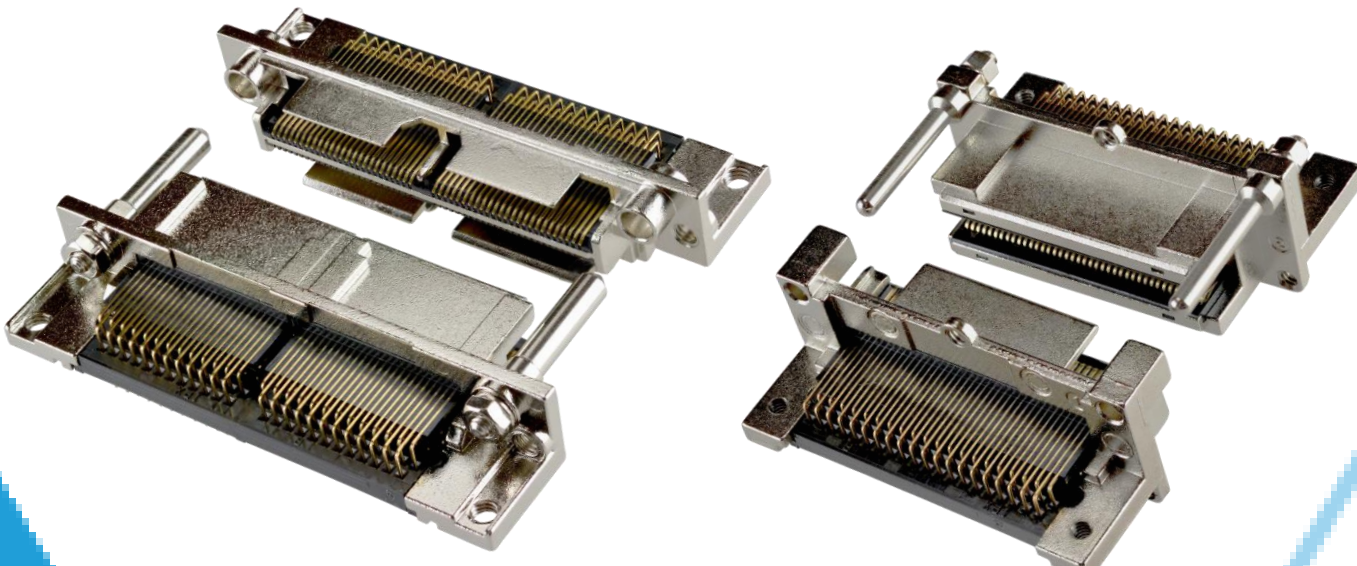
NOVASTACK® series



Board-to-Board
Connectors



I/O
Connectors



MINIDOCK™ series

MINIFLEX® series

EVAFLEX® series



FPC/FFC
Connectors



Inquiry



I-PEX, MHF, CABLINE, NOVASTACK, ISH, IARPB, MINIFLEX, EVAFLEX, MINIDOCK and ZenShield are registered trademarks of I-PEX Inc. Please note that the contents in the catalog might be changed without prior notification. I-PEX Inc. assumes no responsibility for any inaccuracies or obligation to update information on these documents. Please be sure to read and understand the latest “Precautions for Use” and “Instruction Manual” before you use our products. We shall not be responsible for any defects, damages or troubles in case you use our products without following the precautions for use. Please feel free to contact our sales representatives when you use our products for any applications that require very high reliability and safety, or that relate to human life (ex. nuclear power control, aerospace, transportation, medical equipment, safety equipment etc.).

Contact your sales representative
or more detailed information.

www.i-pex.com



I-PEX

© I-PEX Inc. 2025
All rights reserved