

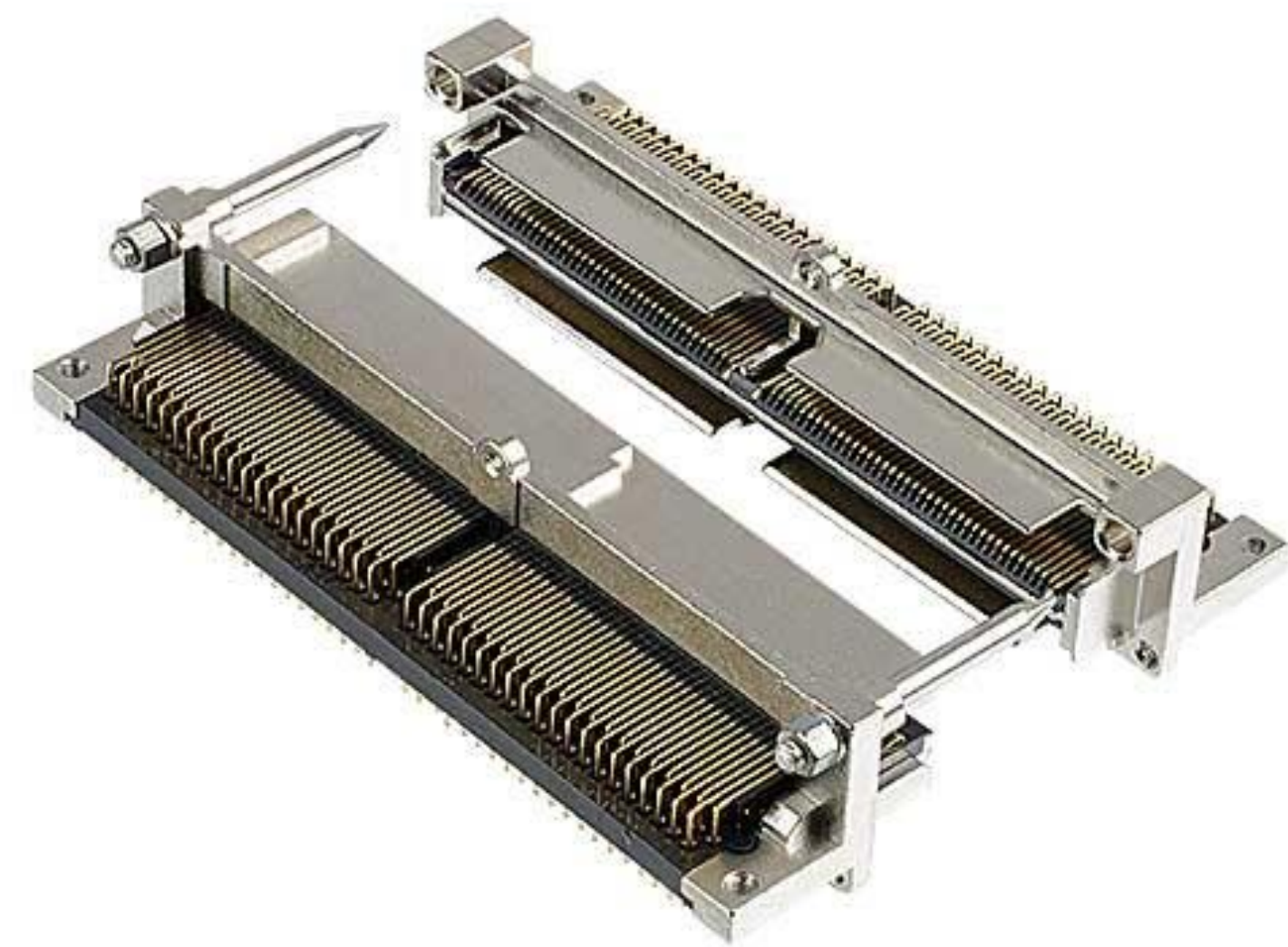
MINIDOCK™ SLIM

견고한 다핀수의 도킹식 I/O 커넥터

Product Specifications:

Board Pitch (mm)		0.635
Size (mm)	Height	9.9 ~ 16.9 mm (Plug) 11.13 ~ 22.53 mm (Rece)
	Width	Formula: 36.0 ~ 96.10 mm (Plug / Rece)
	Depth	9.9 ~ 17.8 mm (Plug) 11.13 ~ 22.53 mm (Rece)
Rating	Amperage	0.5 A AC/DC (Per Contact Pin)
	Voltage	250 V AC/DC (Per Contact Pin)

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



▶ 다양한 어플리케이션에 대응하는 견고한 커넥터(휴대용 기기나 의료 기기 등)

Slim Type Plug :

Part Number	Pin Count	Mating Type	Contact Type	Appearance
30029	80	수평	2 Sequence	
30046	160		2 Sequence	

Slim Type Receptacle :

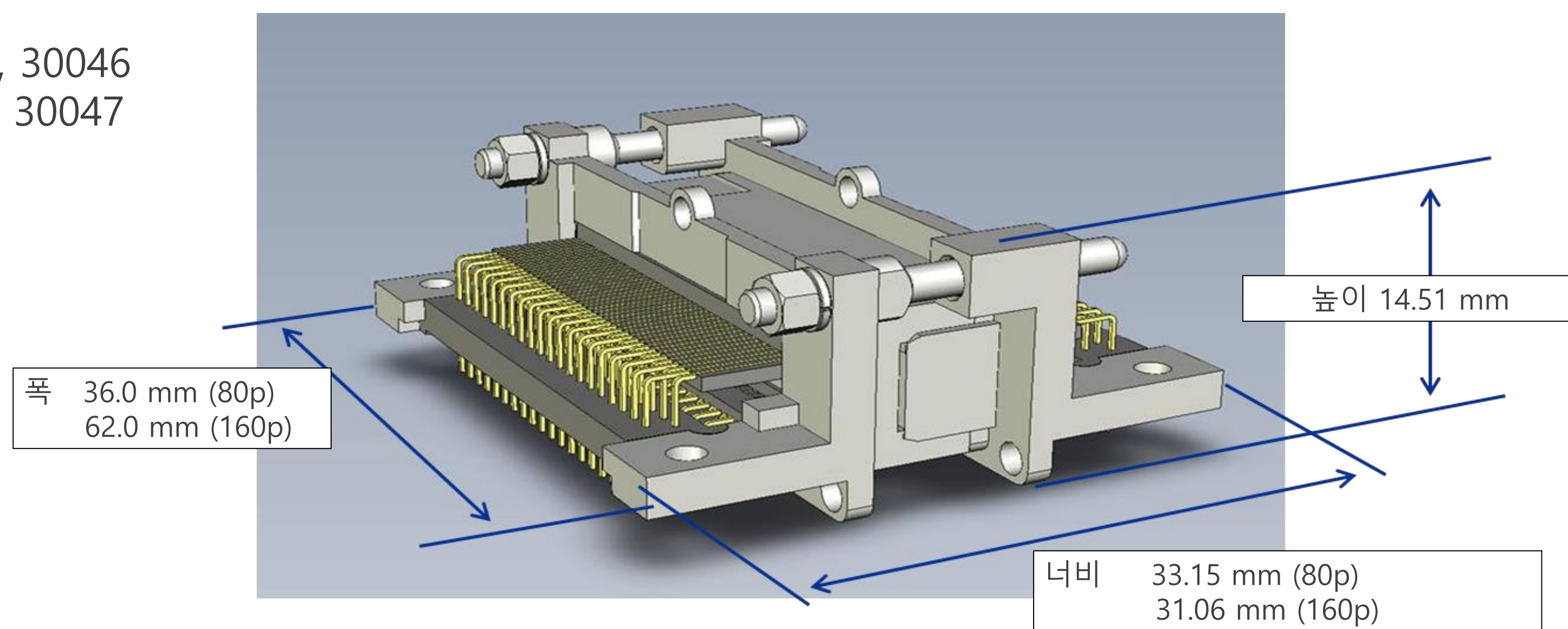
Part Number	Pin Count	Mating Type	Appearance
30030	80	수평	
30047	160		
30056	160	수직	

▶ 삽발 보증 회수 : 5000 사이클

수평타입PLUG – 수평타입RECEPTACLE 결합

형번

- Plug 30029, 30046
- Receptacle 30030, 30047

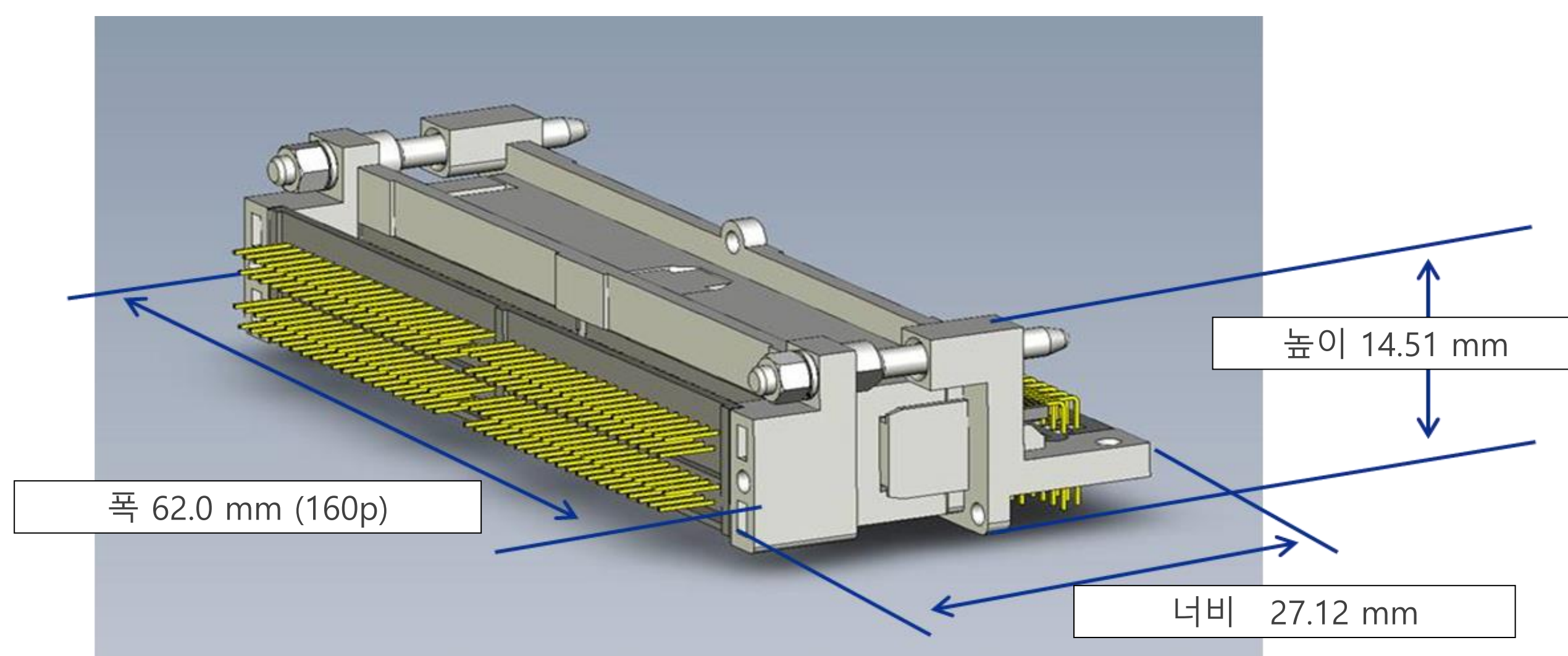


▶ 풍부한 결합 옵션과 보유 핀수

수평타입PLUG – 수직 RECEPTACLE 결합

형번

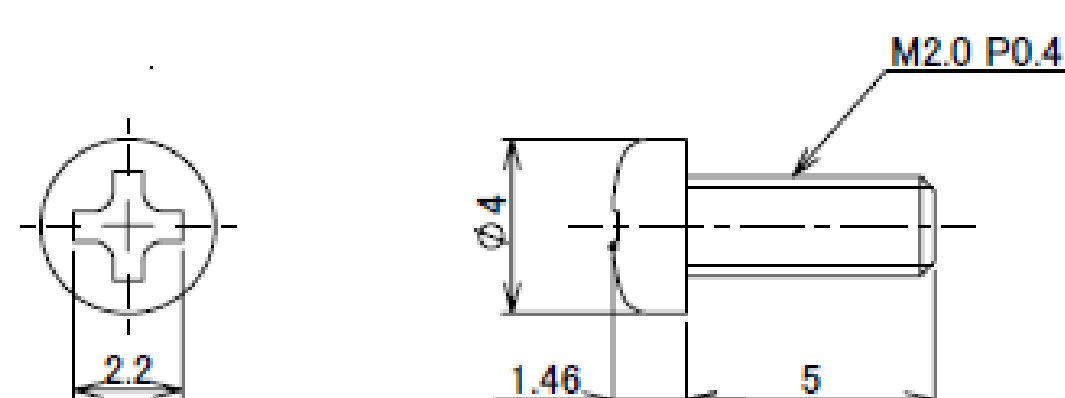
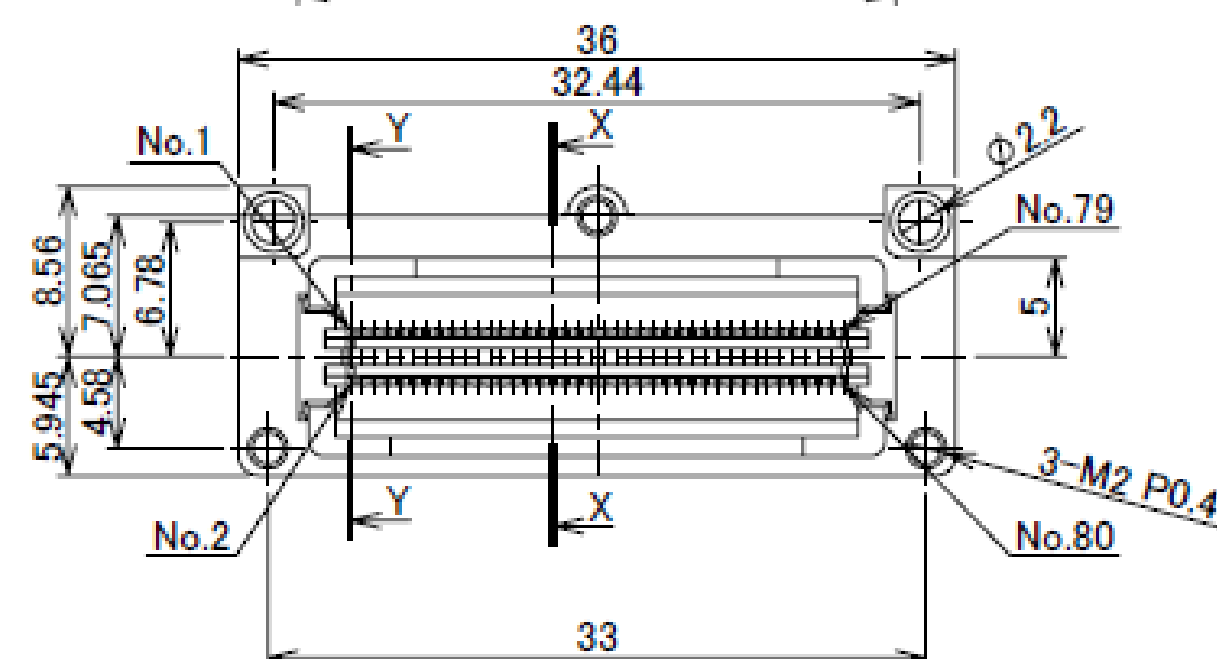
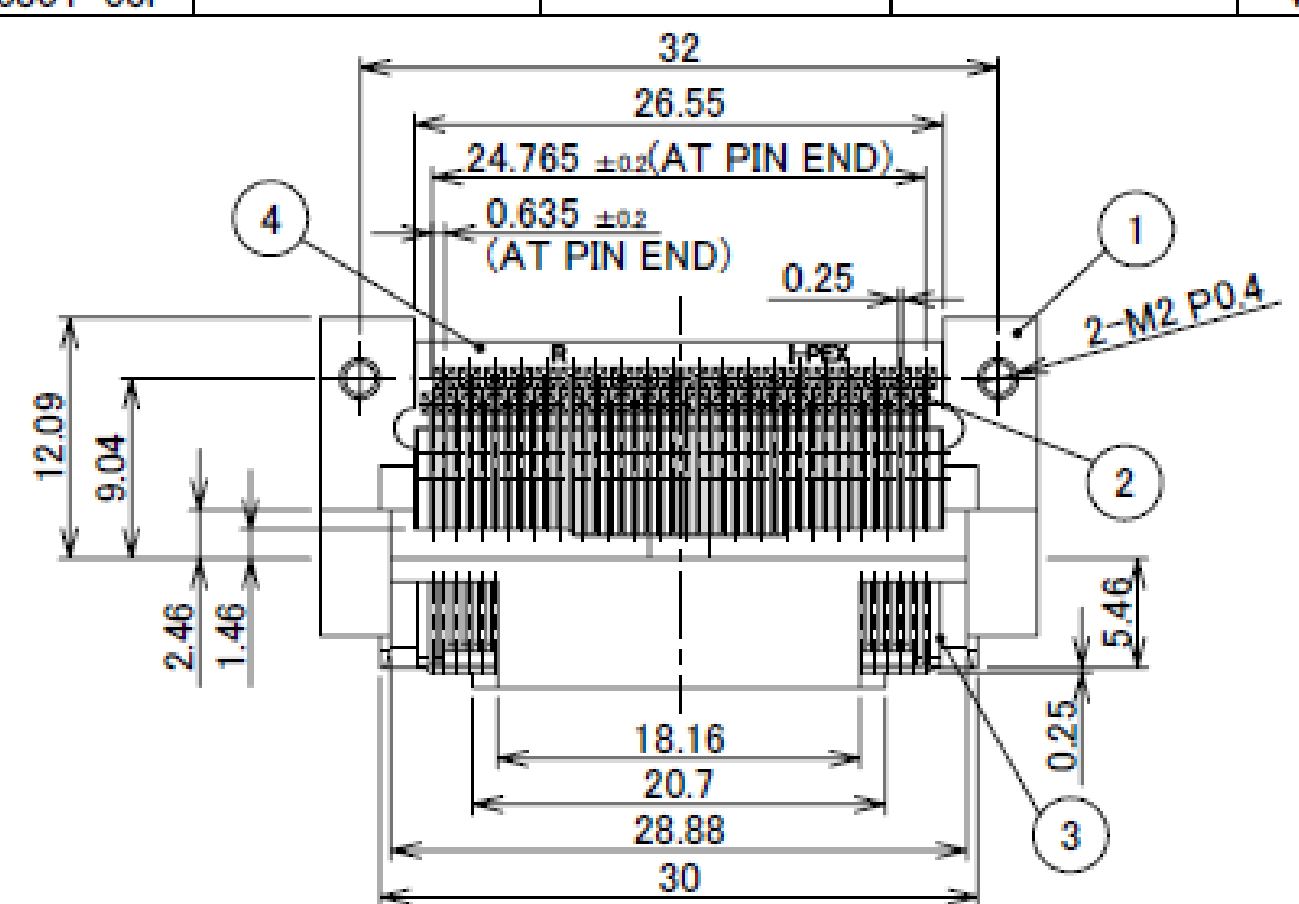
- Plug 30046
- Receptacle 30056



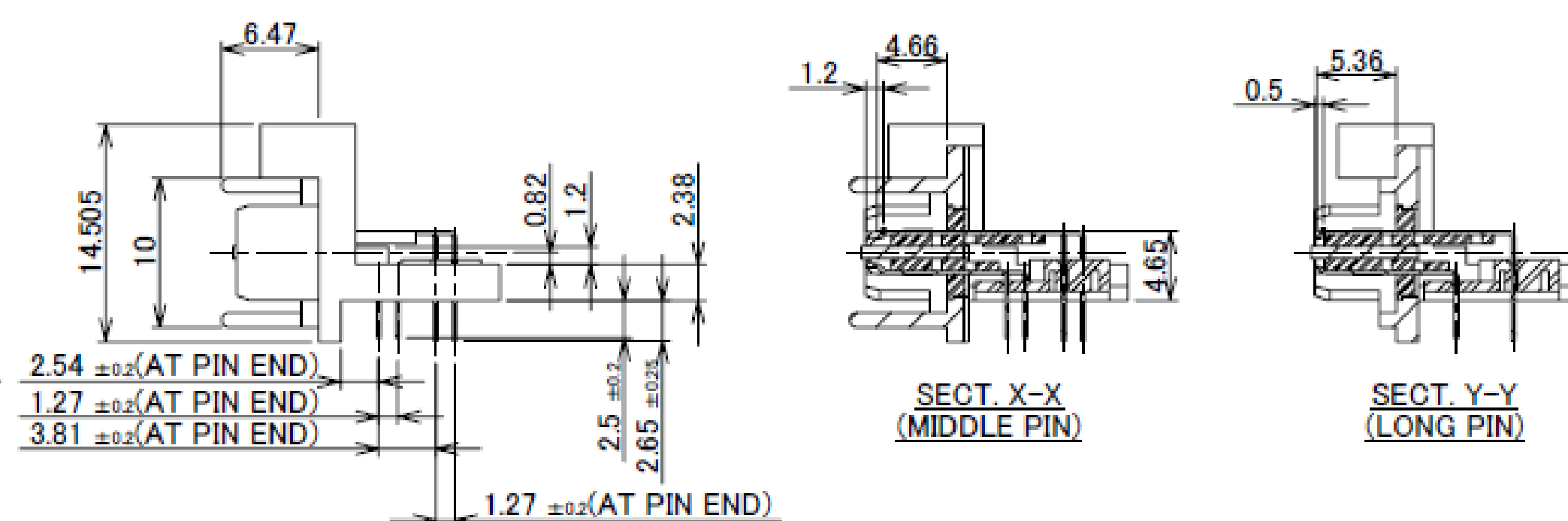
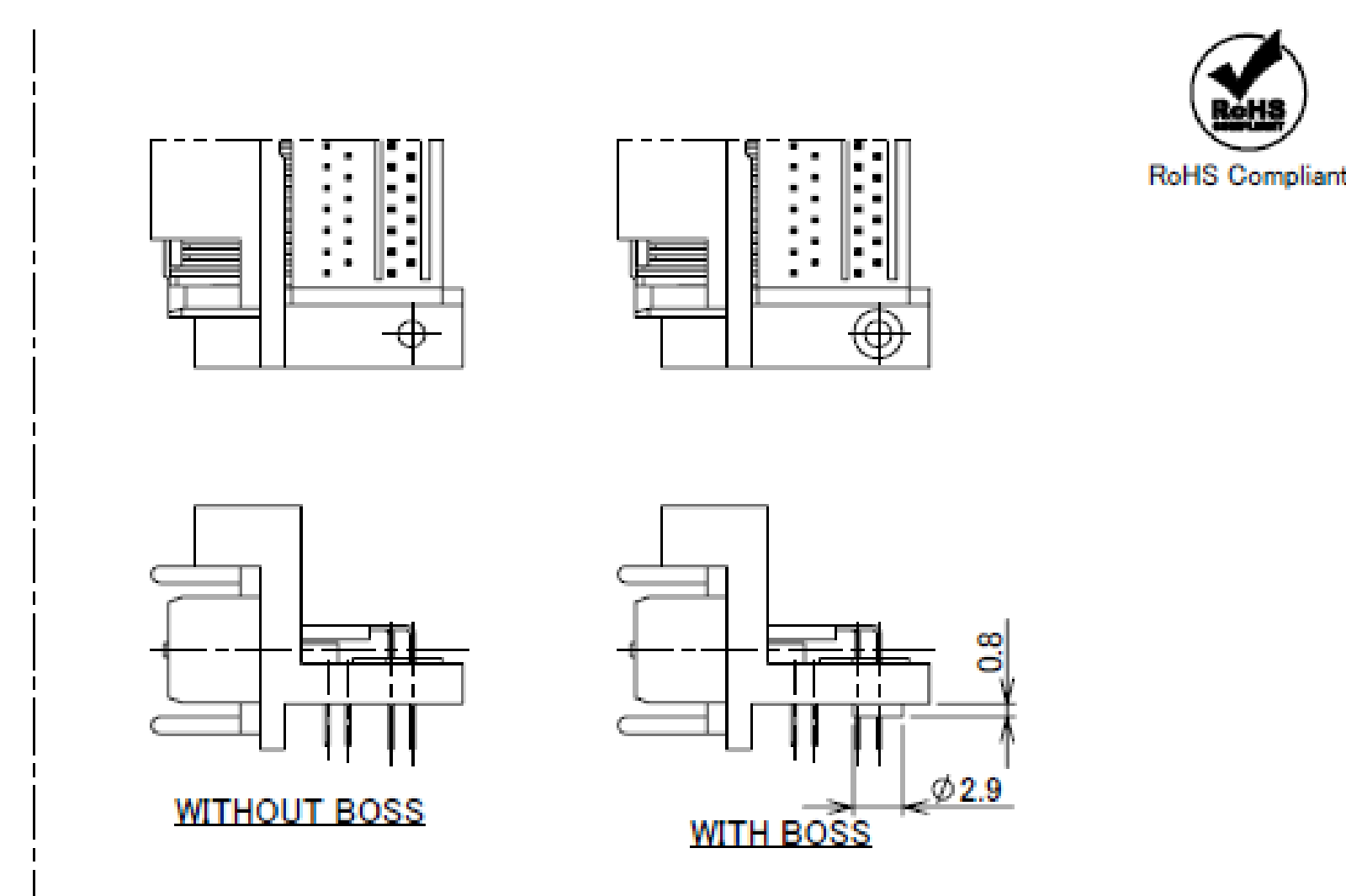
Component Parts Details

Plug Assembly

Recommended P/N		30029-080T-01F			
PART NO.	CIRCUIT No./CONTACT LENGTH		BOSS	NOTES	
	LONG PIN	MIDDLE PIN			
30029-080T-F	1, 2, 79, 80	OTHERS	WITHOUT BOSS	WITH SCREW	
30029-080T-01F				WITHOUT SCREW	
30029-080T-02F			WITH BOSS	WITH SCREW	
30029-080T-03F				WITHOUT SCREW	



SCREW 90042-001
(S = 5/1)

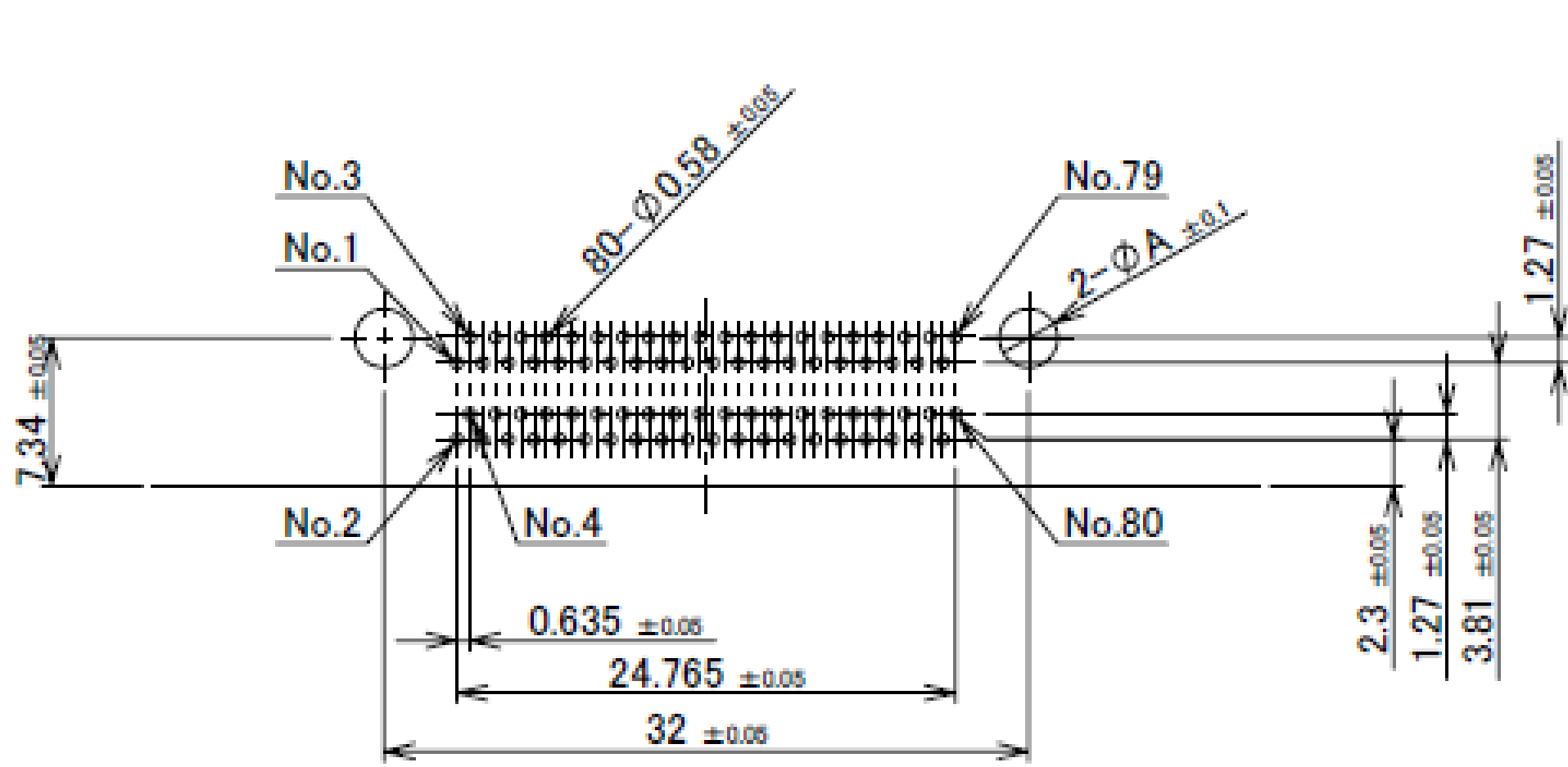


4	LOCATOR PLATE	PA	BLACK UL94V-0
3	PLUG INSULATOR	PPS	BLACK UL94V-0
2	PLUG CONTACT	COPPER ALLOY	CONTACT PART Au FLASH OVER Pd/Ni SOLDER TAIL Au FLASH
1	PLUG SHELL	Zn ALLOY	Ni PLATING
NO.	DISCRIPTION	MATERIAL	FINISH .REMARKS

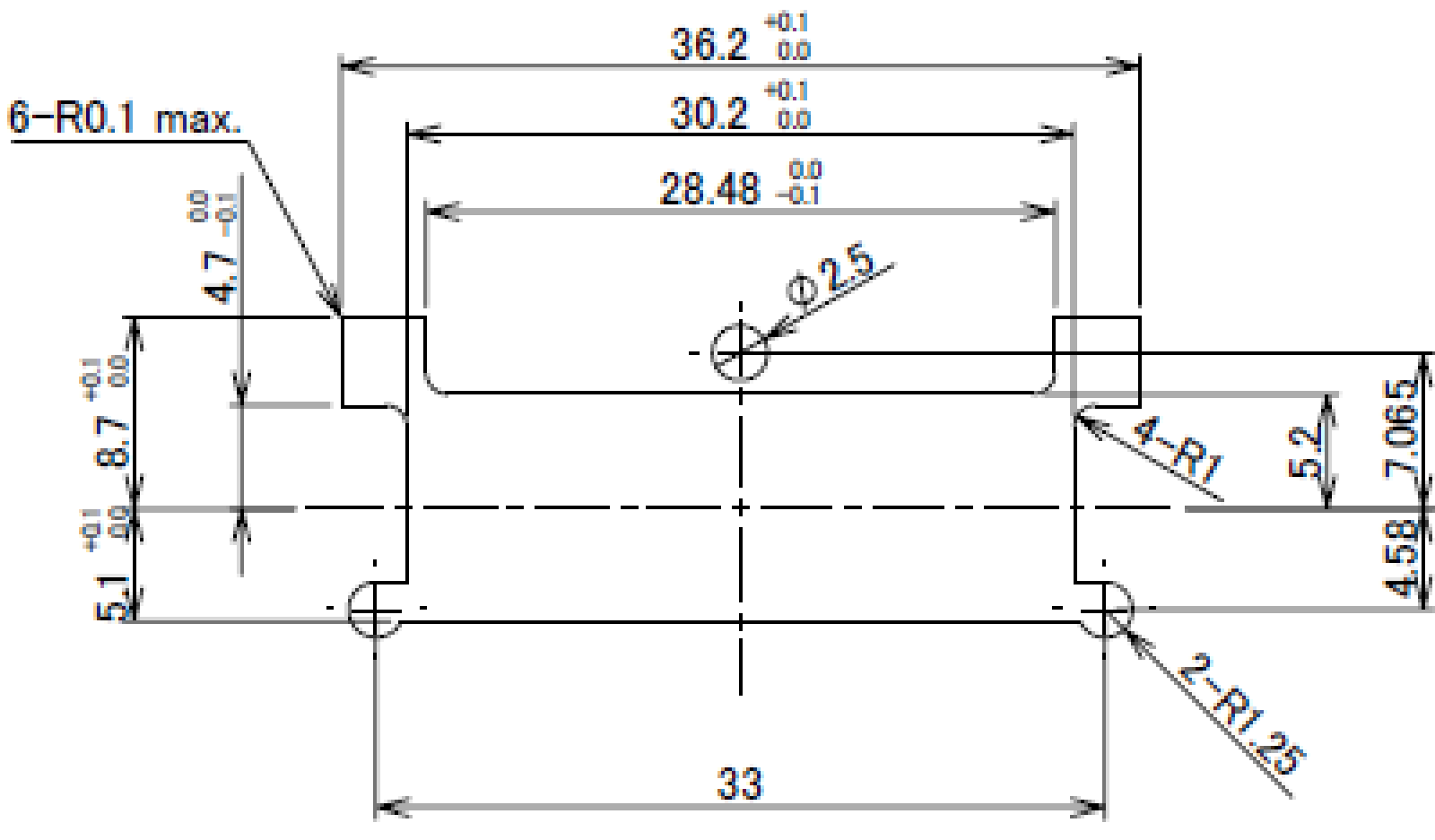
NOTE
1. CONNECTOR TO BE MATED: 30030

Plug Assembly

PART NO.	A
30029-080T-F	2.3
30029-080T-01F	
30029-080T-02F	3.1
30029-080T-03F	

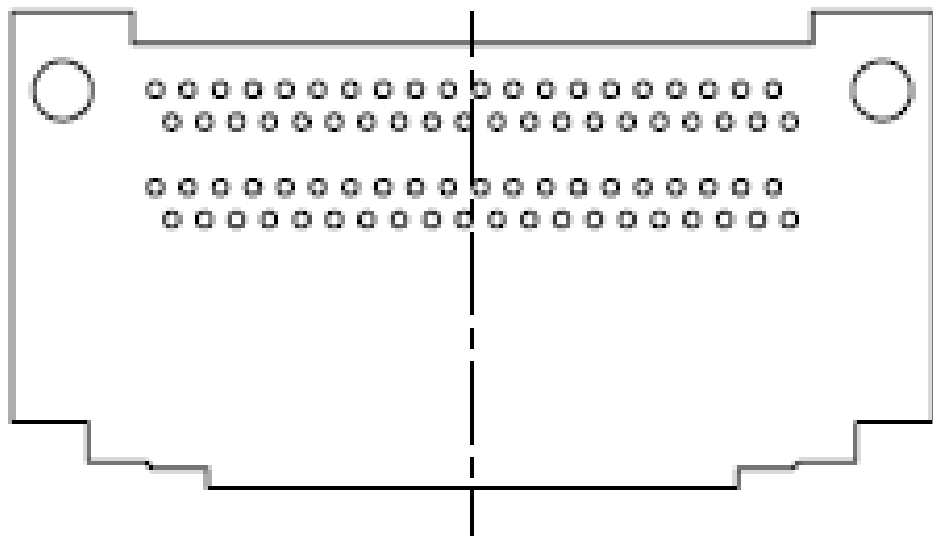


RECOMMENDED FOOTPRINT PATTERN t=1.6

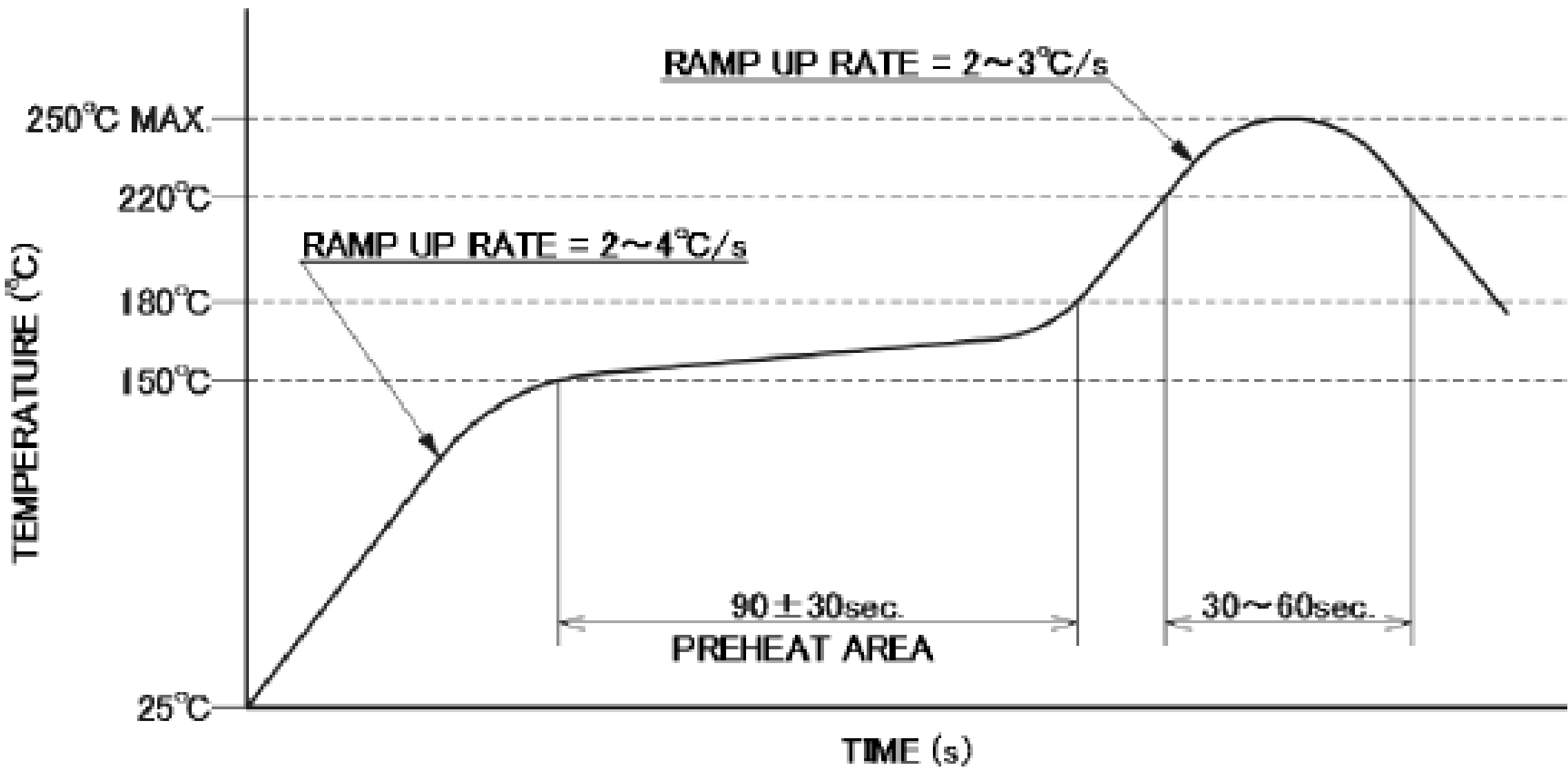


RECOMMENDED PANEL

Rev.15



CONNECTOR ON RECOMMENDED FOOTPRINT PATTERN



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

Rev.15

Plug Assembly

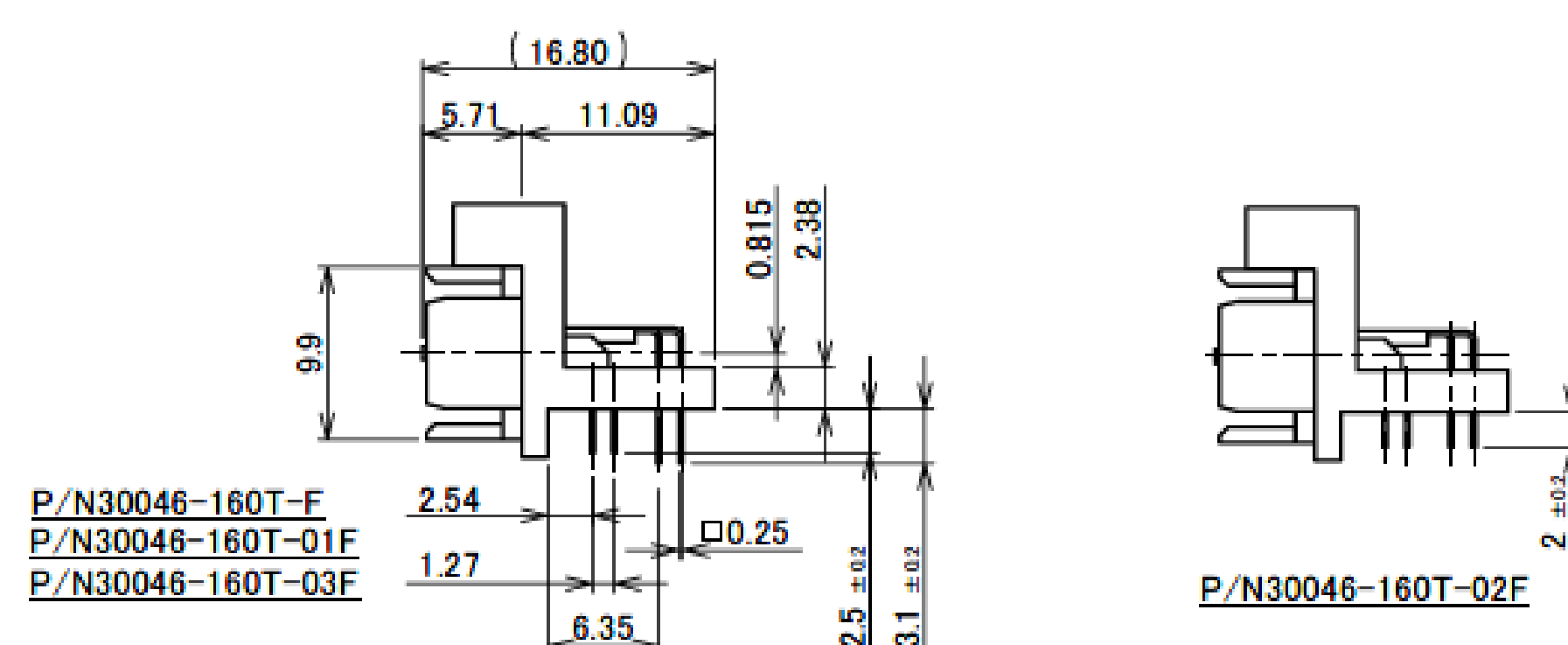
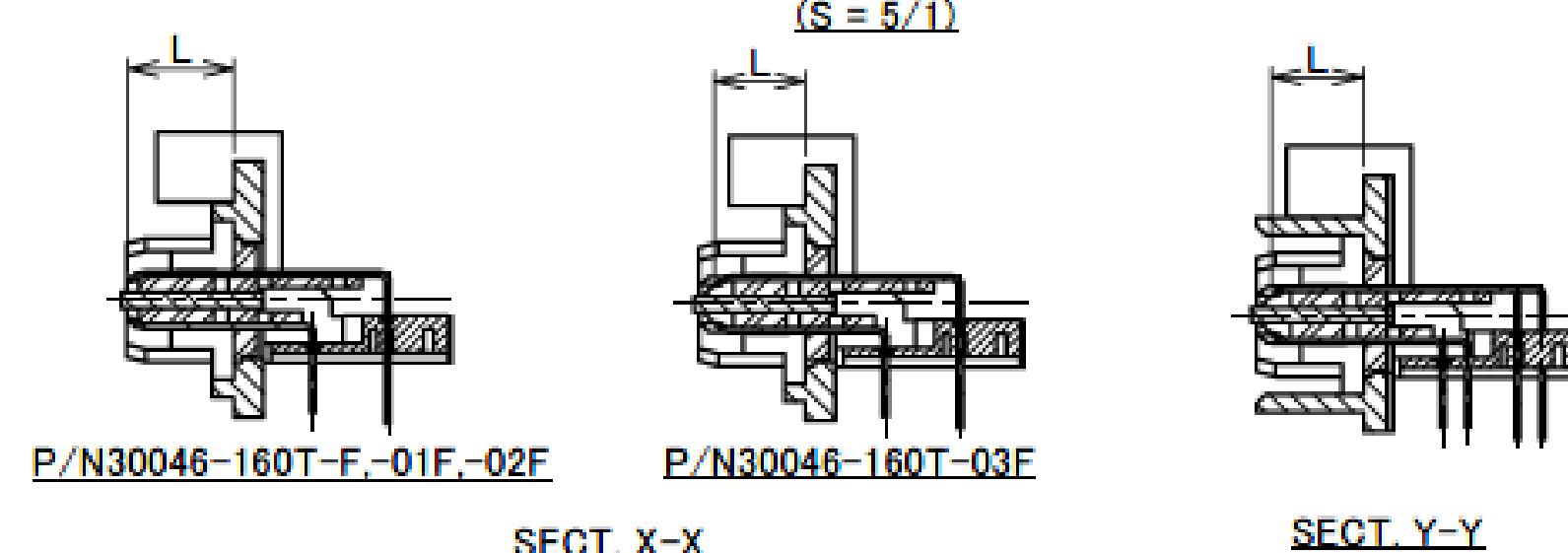
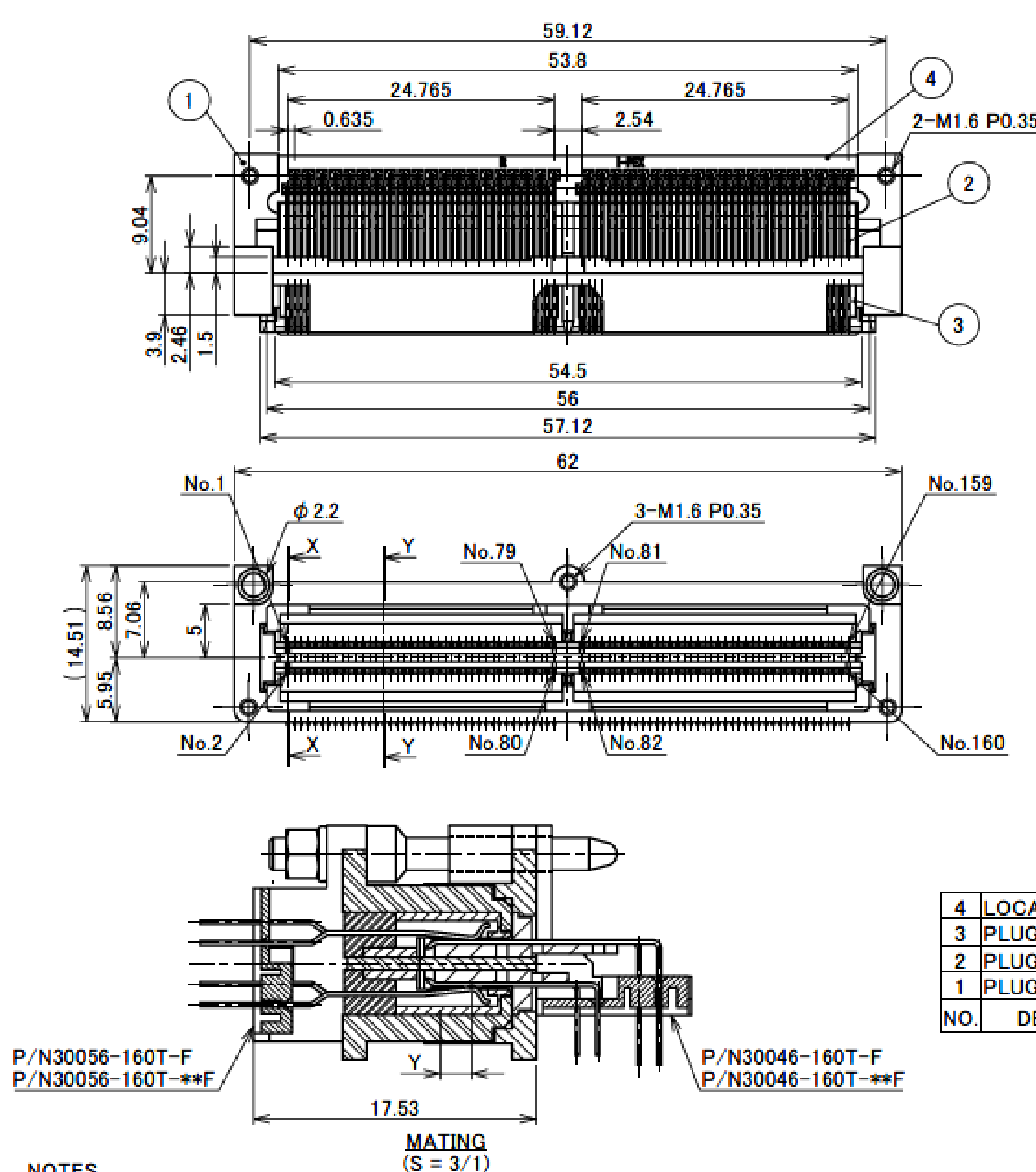
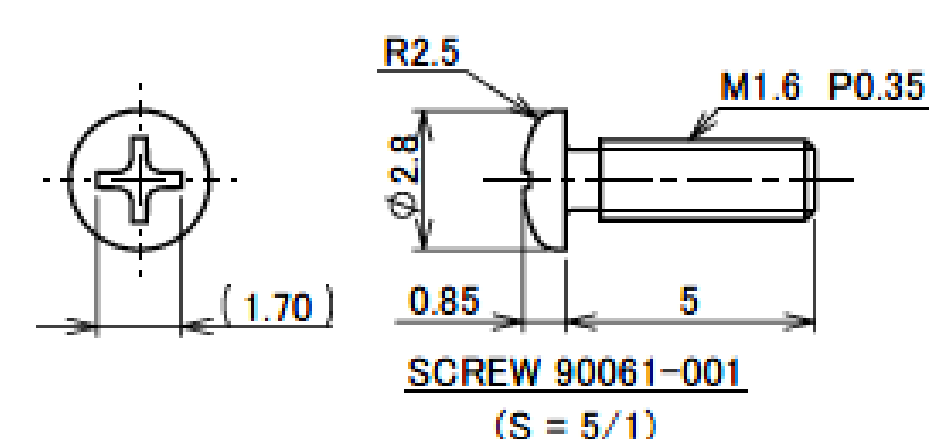
ITEMS	SPECIFICATION
RATING VOLTAGE	250V AC (PER CONTACT PIN)
RATING AMPERAGE (FOR CONTACT)	0.5A AC/DC (PER CONTACT PIN)
OPERATING TEMPERATURE	208~358K(−65°C~+85°C)
OPERATING HUMIDITY	85% MAX.(NON-CONDENSING)
CONTACT RESISTANCE (FOR CONTACT)	INITIAL : 70mohm MAX. / AFTER TEST : \triangle 25mohm MAX.
INSULATION RESISTANCE	INITIAL : 10,000Mohm MIN. / AFTER TEST : 1,000Mohm MIN.
DIELECTRIC WITHSTANDING VOLTAGE	AC500V 1min
DURABILITY	5,000 CYCLES
MATING FORCE (INITIAL)	0.9N/pos. MAX.
UNMATING FORCE (AFTER TEST)	0.059N/pos. MIN.
COPLANARITY	-
PRODUCT SPECIFICATION	PRS-1011
TEST REPORT	TR-9020
PACKING STANDARD	300-141
INSTRUCTION MANUAL	-
APPEARANCE CRITERIA No.	QLS-A***

Rev.15

Recommended P/N	30046-160T-F
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PART NO.		No. of POS.	Y (MATING TRAVEL OF C/T)	CIRCUIT No. / L=CONTACT LENGTH		NOTES
				L=5.36	L=4.66	
	30046-160T-F	160P	1.4 , 2.1	No.1, 2, 79, 80, 81, 82, 159, 160	OTHERS	WITH SCREW
	30046-160T-O1F					NO SCREW
◆	30046-160T-O2F					
	30046-160T-O3F					

♦ MARK MEANS NOT AVAILABLE



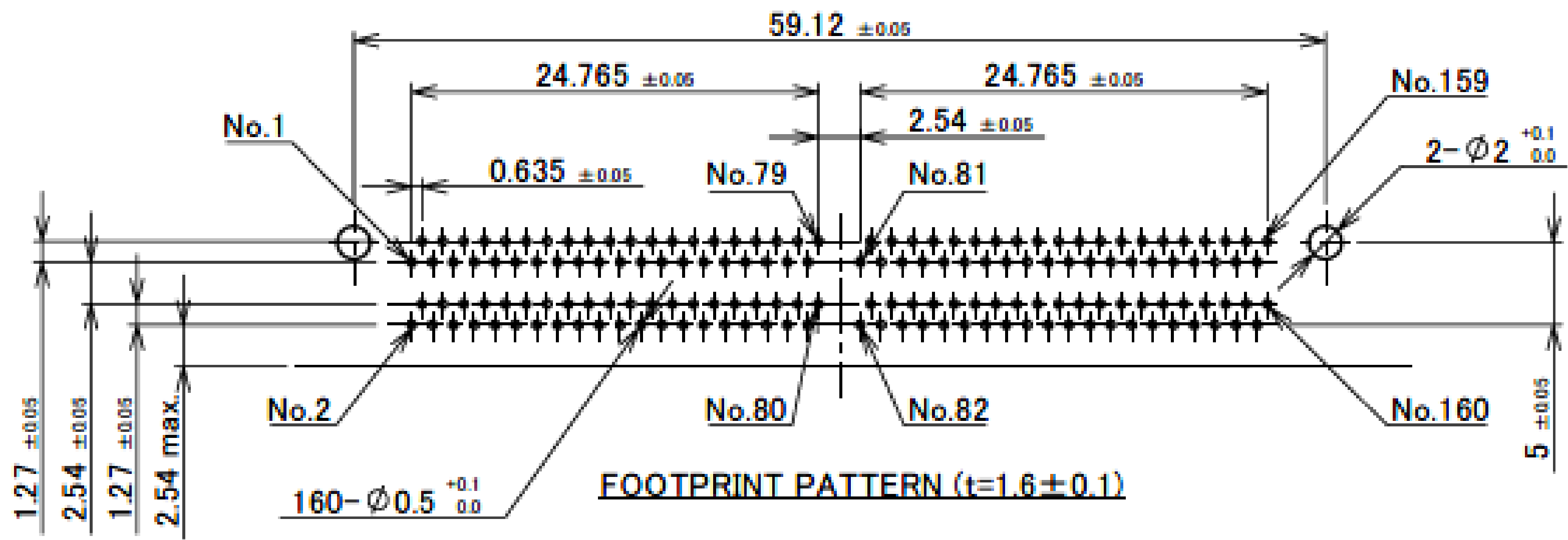
4	LOCATOR PLATE	PA	BLACK UL94V-0
3	PLUG INSULATOR	PPS	BLACK UL94V-0
2	PLUG CONTACT	COPPER ALLOY	Au PLATING
1	PLUG SHELL	Zn ALLOY	Ni PLATING
NO	DESCRIPTION	MATERIAL	FINISH REMARKS

NOTES

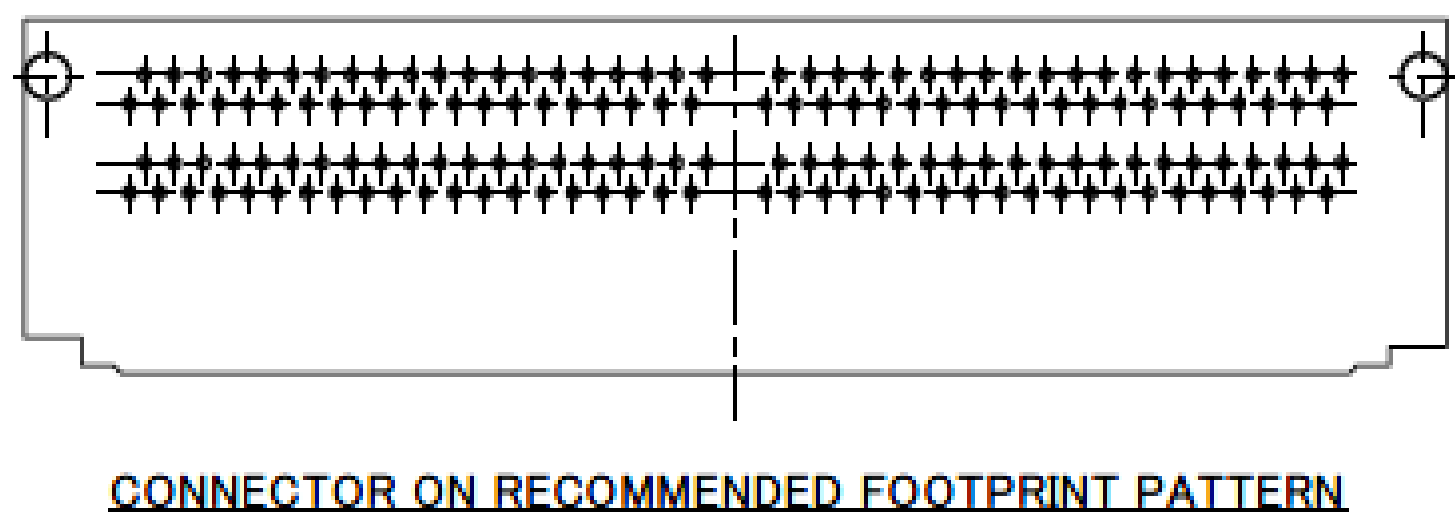
- NOTES
1. CONNECTOR TO BE MATED : 30047 , 30056
 2. ALLOWANCE DIMENSION OF GUIDE PIN : 0.8 mm

Rev.16

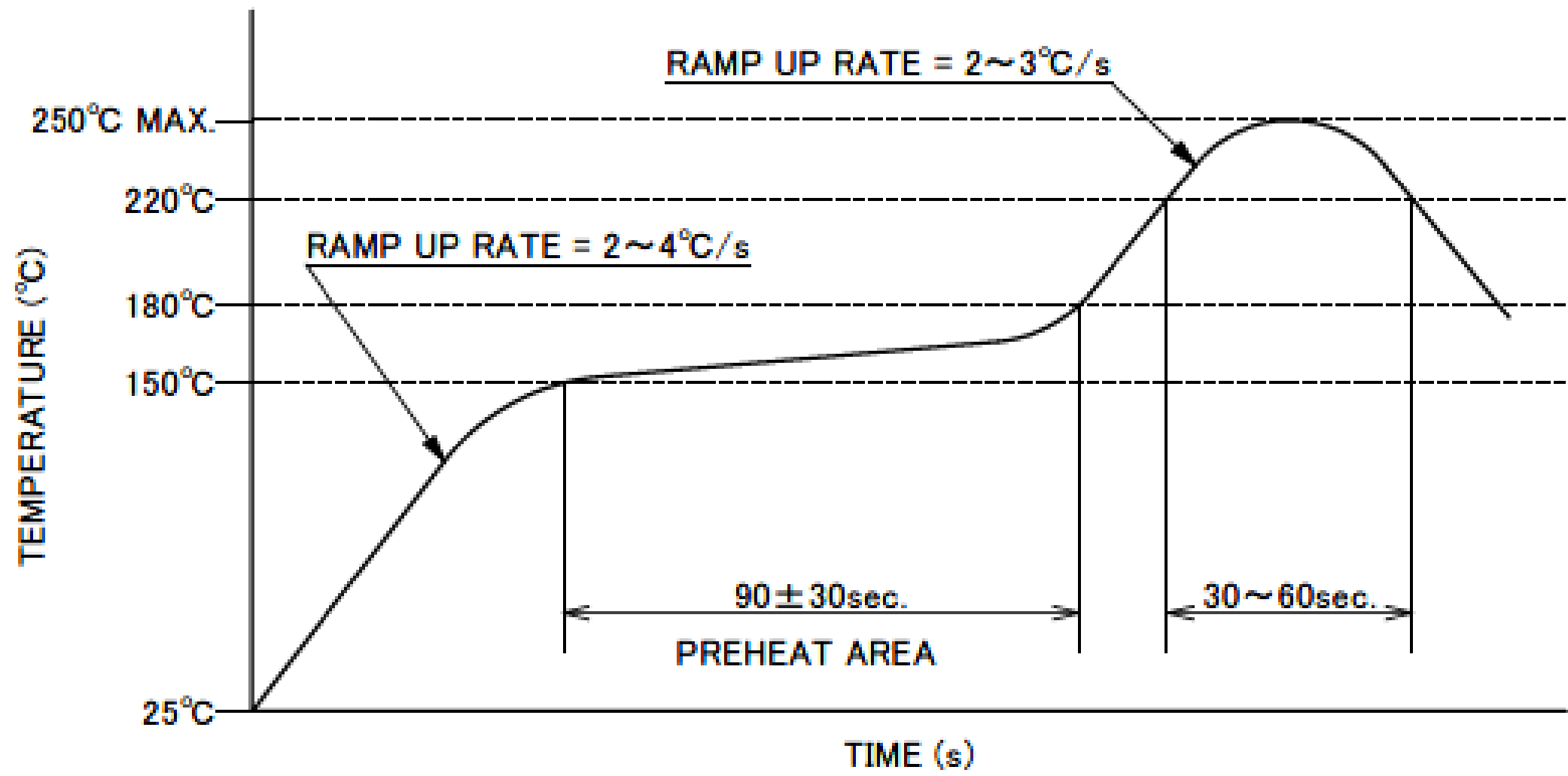
Plug Assembly



Rev.16



CONNECTOR ON RECOMMENDED FOOTPRINT PATTERN



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

Rev.16

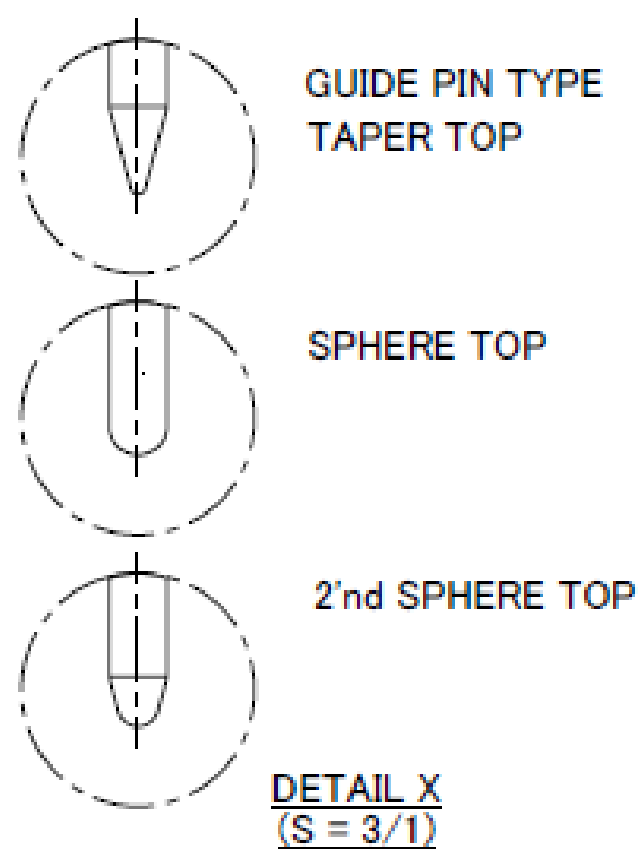
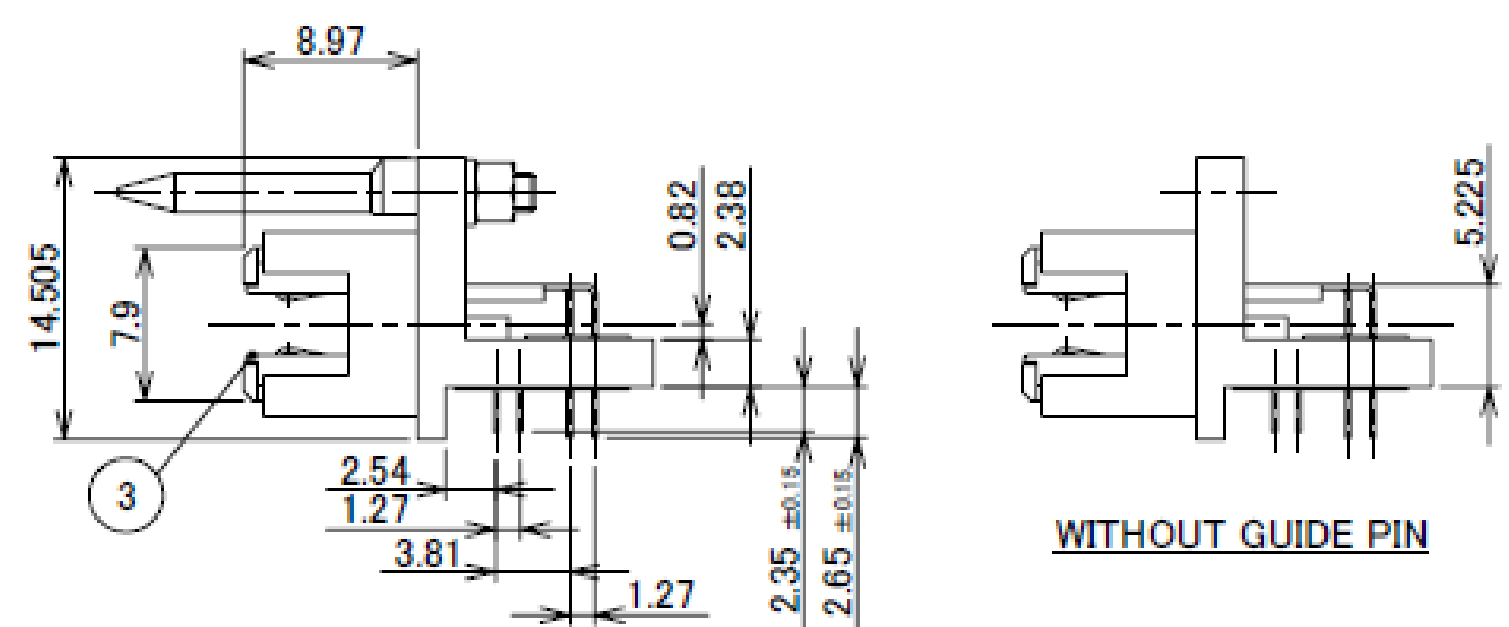
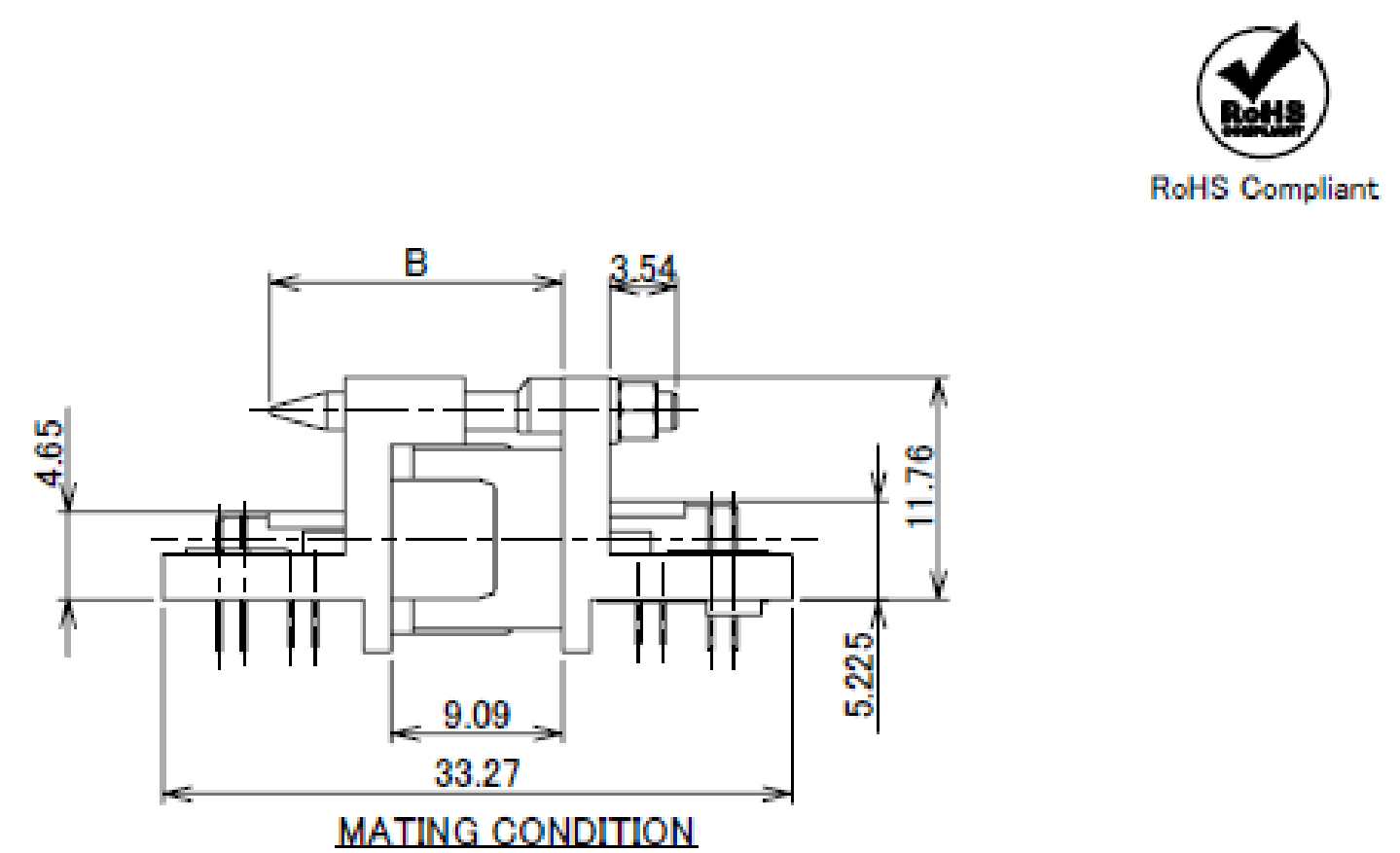
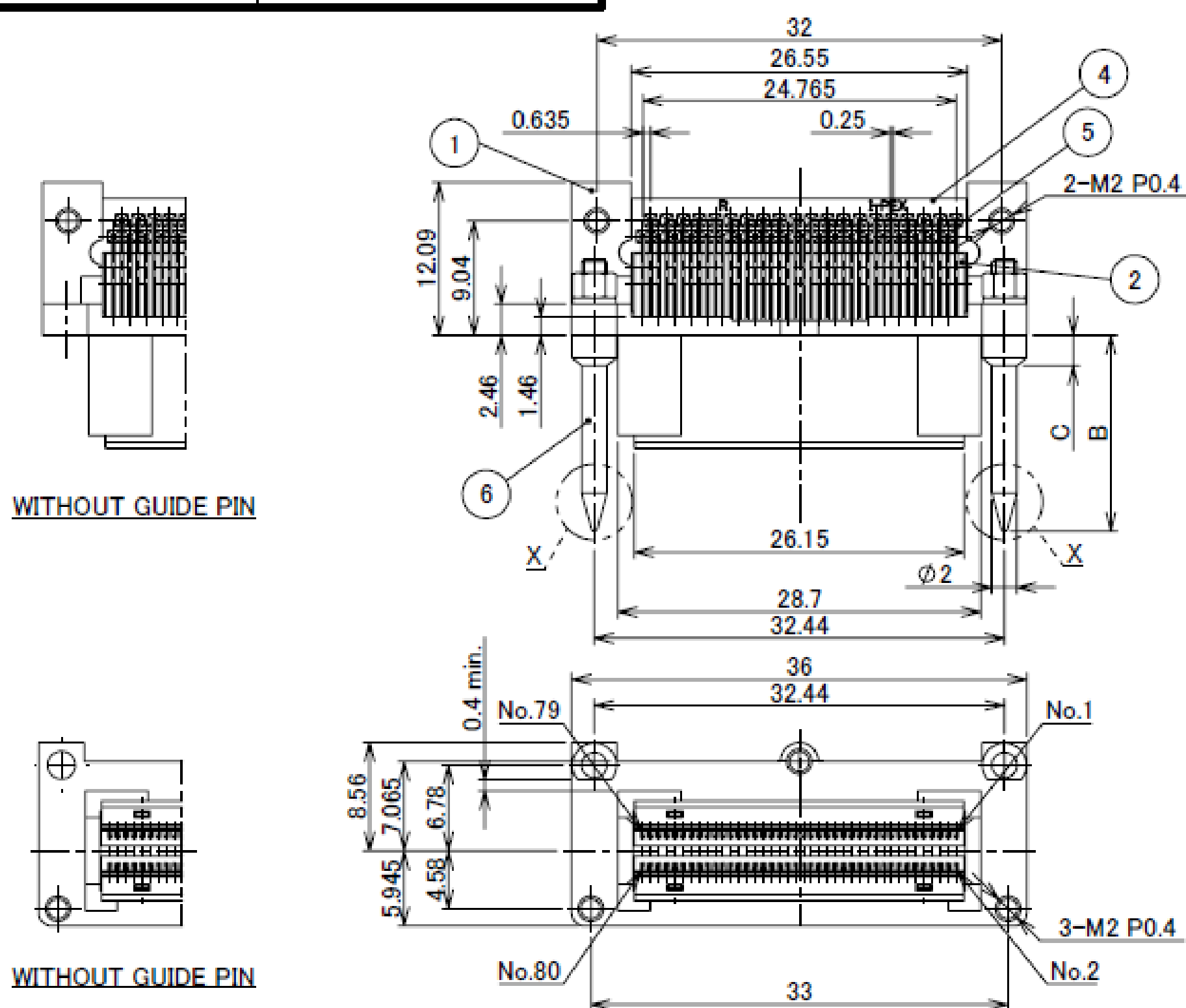
Plug Assembly

ITEMS	SPECIFICATION
RATING VOLTAGE	250V AC (PER CONTACT PIN)
RATING AMPERAGE (FOR CONTACT)	0.5A AC/DC (PER CONTACT PIN)
OPERATING TEMPERATURE	208~358K(-65°C~+85°C)
OPERATING HUMIDITY	85% MAX.(NON-CONDENSING)
CONTACT RESISTANCE (FOR CONTACT)	INITIAL : 70mohm MAX. / AFTER TEST : \angle 25mohm MAX.
INSULATION RESISTANCE	INITIAL : 10,000Mohm MIN. / AFTER TEST : 1,000MIN.
DIELECTRIC WITHSTANDING VOLTAGE	AC500V 1min
DURABILITY	5,000 CYCLES
MATING FORCE (INITIAL / AFTER TEST)	0.9N/pos. MAX.
UNMATING FORCE (INITIAL / AFTER TEST)	0.059N/pos. MIN.
COPLANARITY	-
PRODUCT SPECIFICATION	PRS-1011
TEST REPORT	TR-9020
PACKING STANDARD	300-106
INSTRUCTION MANUAL	-
APPEARANCE CRITERIA No.	QLS-A***

Rev.16

Receptacle Assembly

Recommended P/N	30030-080T-03F
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6	GUIDE PIN	STAINLESS STEEL (30030-080T-017*/018*)	NO PLATING
		STEEL (EXCEPT 30030-080T-017*/018*)	Ni PLATING
5	CONTACT	COPPER ALLOY	CONTACT AREA: Au FLASH OVER Pd/Ni SOLDER TAIL: Au FLASH
4	LOCATOR PLATE	PA	BLACK, UL94V-0
3	CONTACT GUIDE	PPS	BLACK, UL94V-0
2	INSULATOR	PPS	BLACK, UL94V-0
1	SHELL	Zn ALLOY	Ni PLATING
NO.	DISCRIPTION	MATERIAL	FINISH , REMARKS

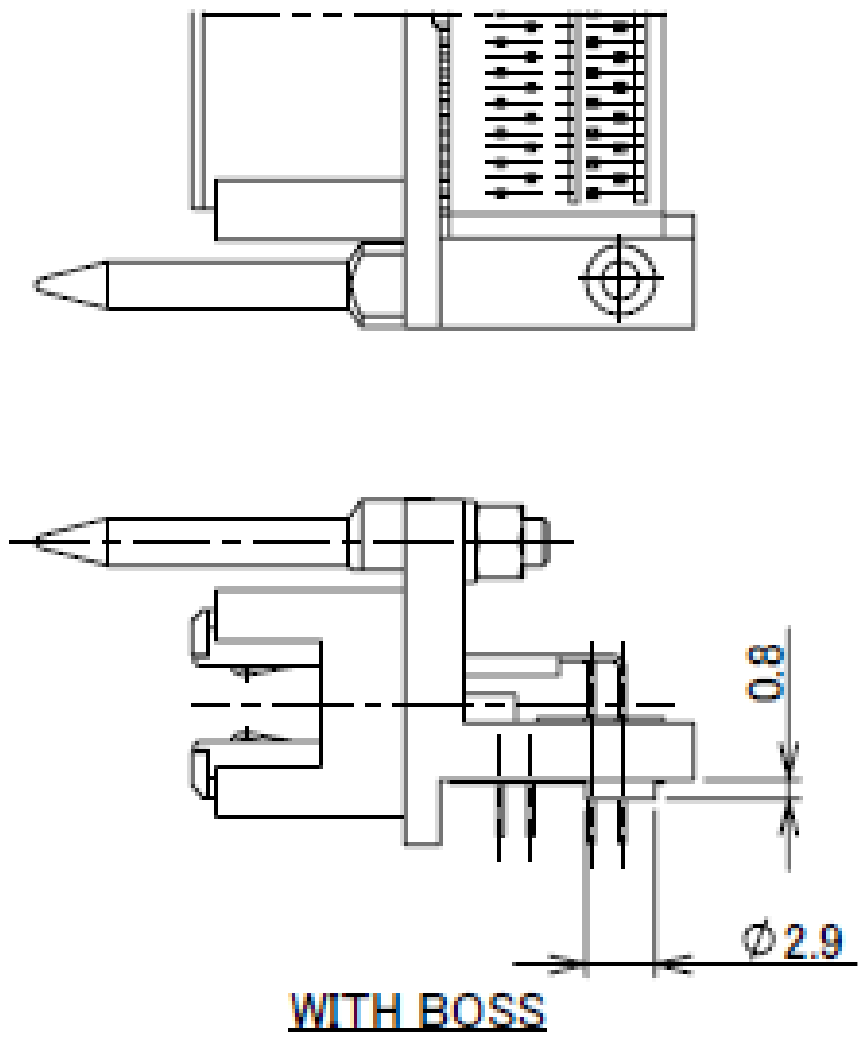
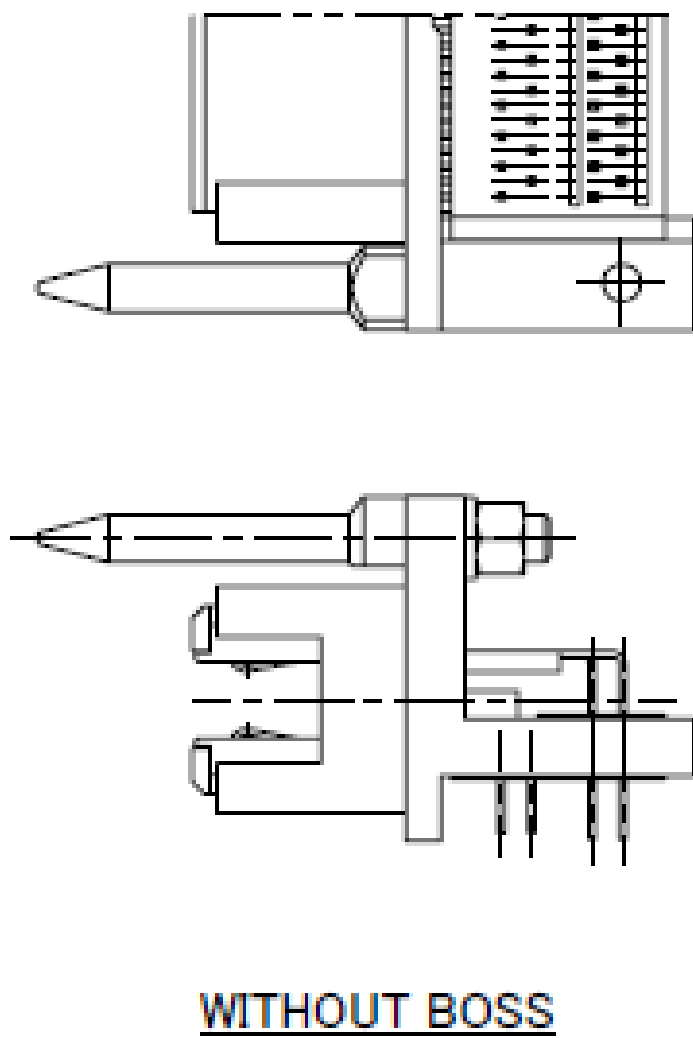
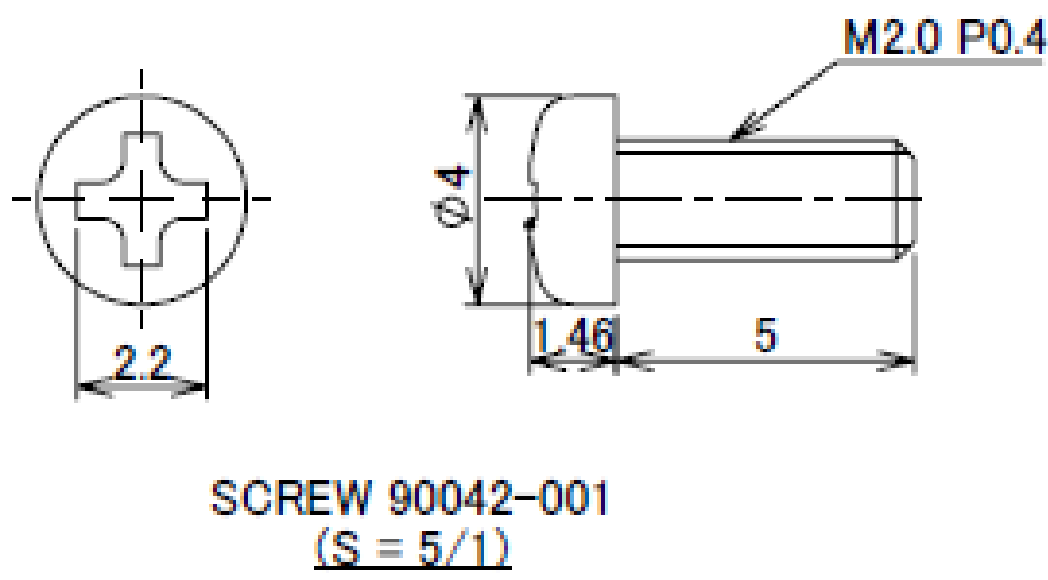
NOTES

1. CONNECTOR TO BE MATED: 30029

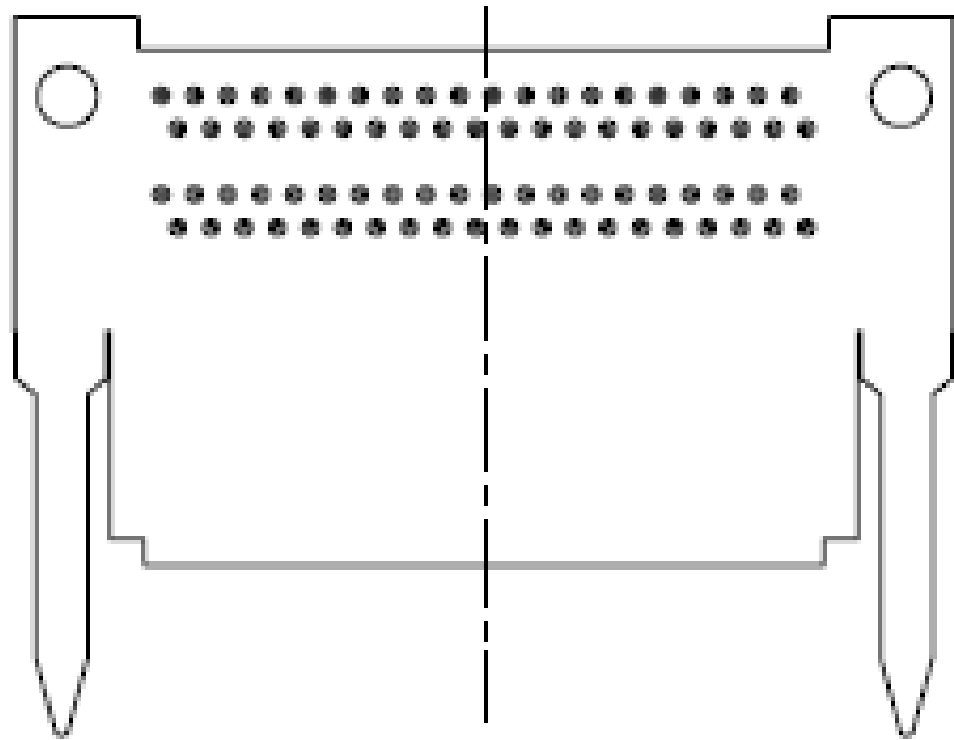
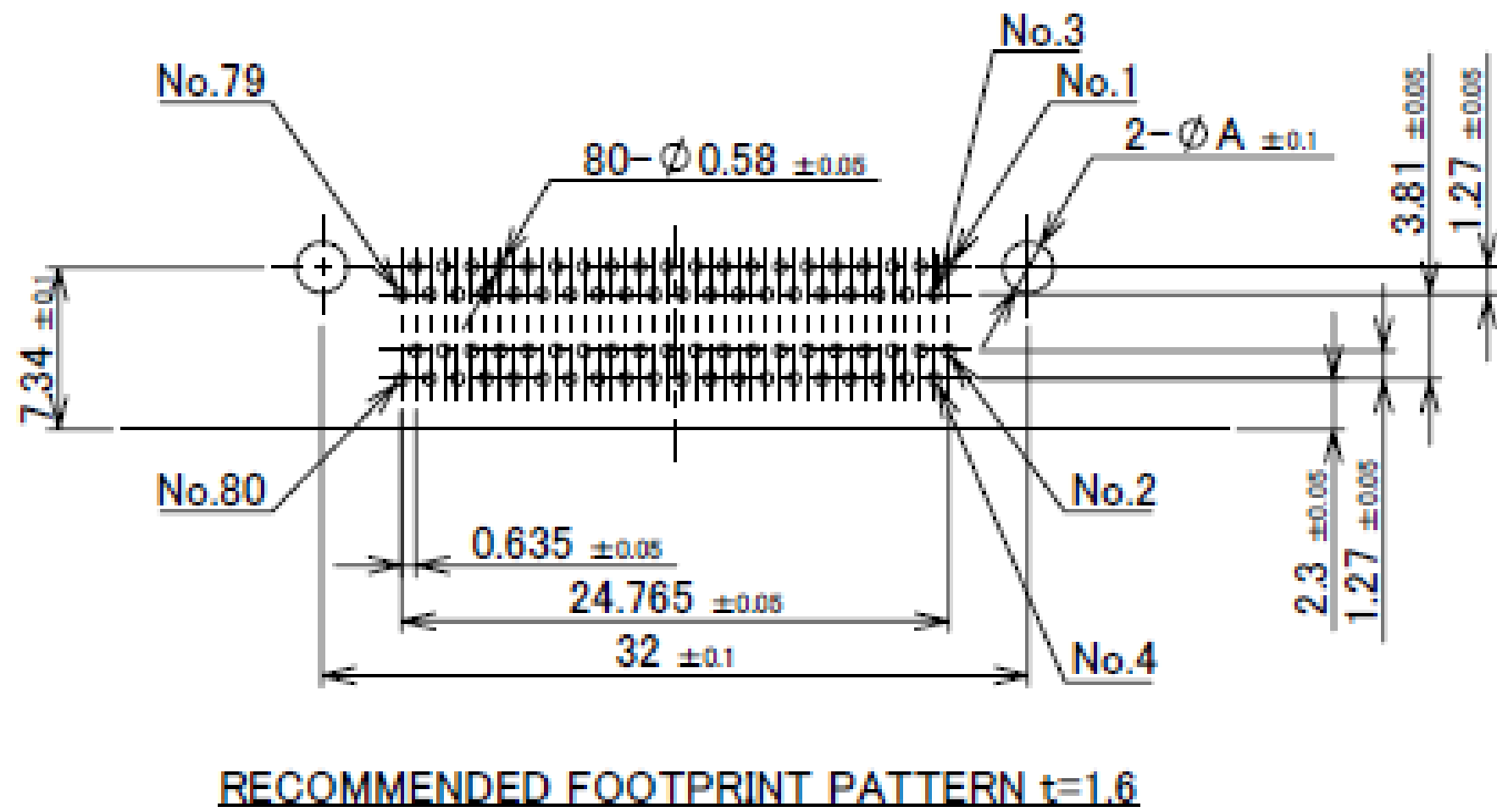
Rev.18

Receptacle Assembly

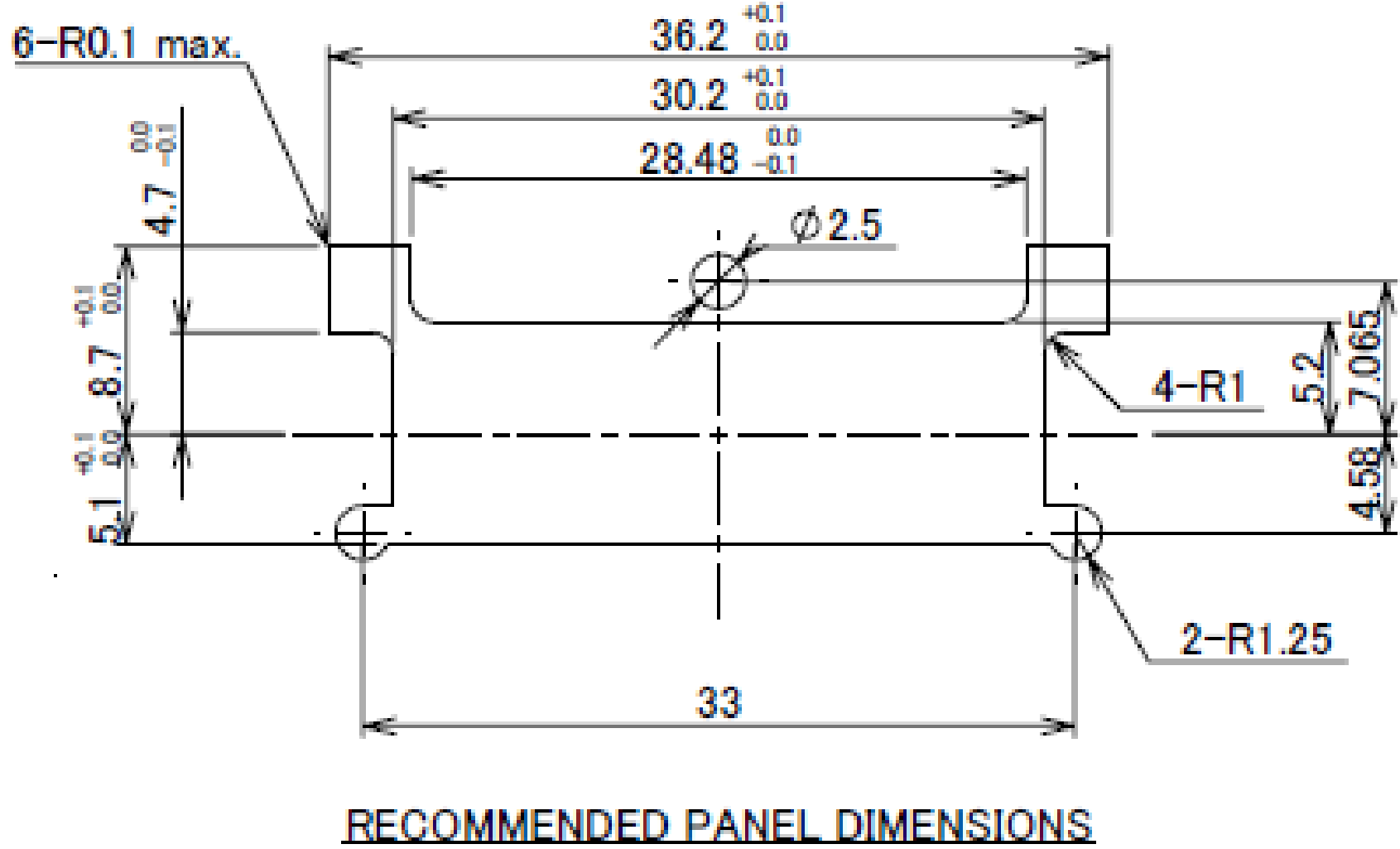
PART No.	GUIDE PIN TYPE	BOSS	A	B	C	NOTES
30030-080T-F	TAPER TOP	WITHOUT BOSS	2.3	15.5	2.4	WITH SCREW
30030-080T-01F	SPHERE TOP					WITHOUT SCREW
30030-080T-02F	TAPER TOP					
30030-080T-03F	SPHERE TOP			—		WITH SCREW
30030-080T-04F	WITHOUT GUIDE PIN (1413-00*)					WITHOUT SCREW
30030-080T-05F	(WITHOUT NUT, WASHER)	WITH BOSS	3.1	15.5		WITH SCREW
30030-080T-06F	TAPER TOP					WITHOUT SCREW
30030-080T-07F	SPHERE TOP					WITH SCREW
30030-080T-08F	TAPER TOP			—		WITHOUT SCREW
30030-080T-09F	SPHERE TOP					WITH SCREW
30030-080T-10F	WITHOUT GUIDE PIN (1413-00*)	WITHOUT BOSS	2.3	15.5	WITHOUT SCREW	
30030-080T-11F	(WITHOUT NUT, WASHER)				WITH SCREW	
30030-080T-12F	2'nd SPHERE TOP	WITH BOSS	3.1		WITHOUT SCREW	
30030-080T-13F					WITH SCREW	
30030-080T-14F		WITHOUT BOSS	2.3	WITHOUT SCREW		
30030-080T-15F				WITH SCREW		
30030-080T-16F	SPHERE TOP	WITHOUT BOSS	2.3	13.0	WITHOUT SCREW	
30030-080T-17F	TAPER TOP (MTL : STAINLESS STEEL)			15.5		
30030-080T-18F	SPHERE TOP (MTL : STAINLESS STEEL)					
30030-080T-19F	SPHERE TOP	WITH BOSS	3.1	14.0		4.0



Rev.18



CONNECTOR ON RECOMMENDED FOOTPRINT PATTERN



Rev.18

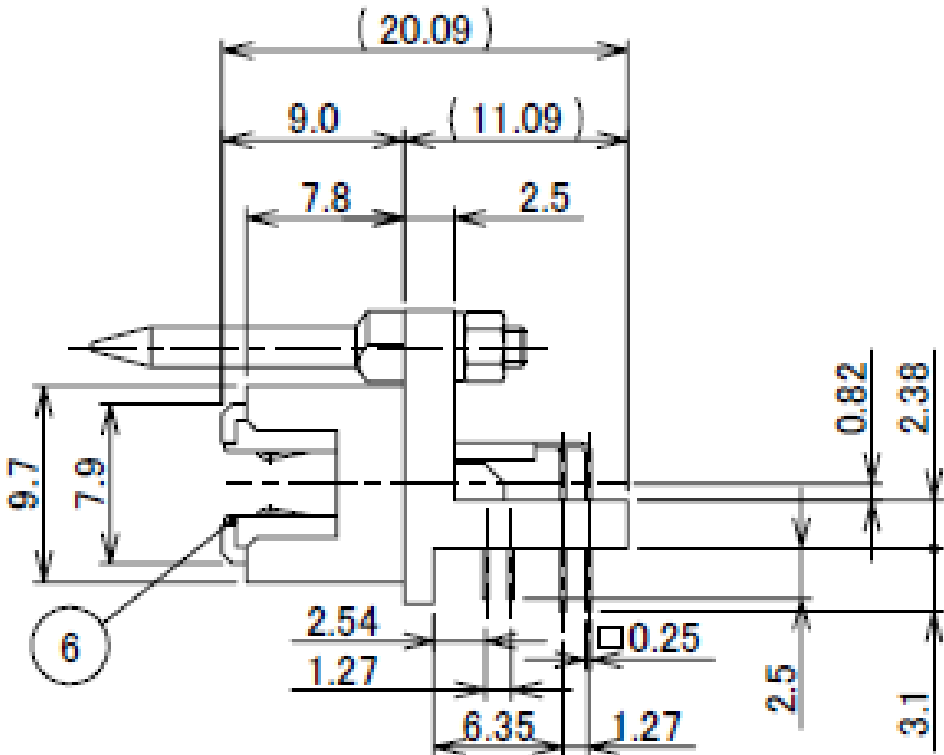
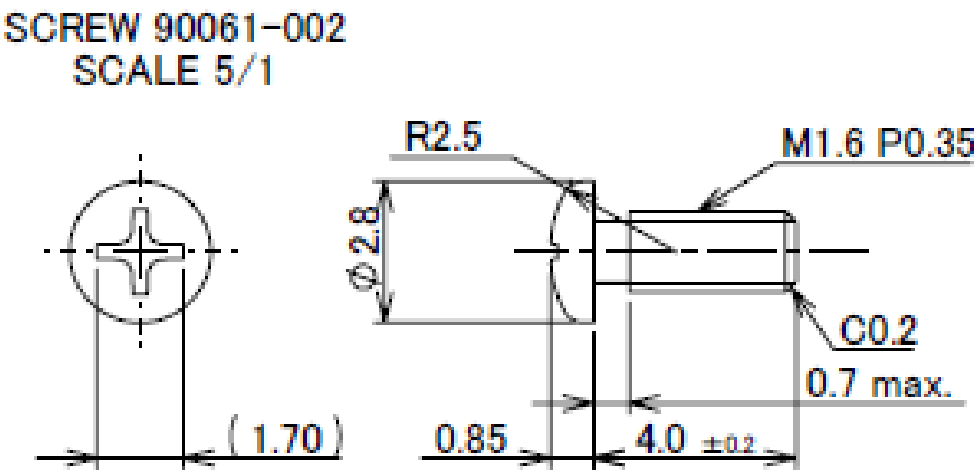
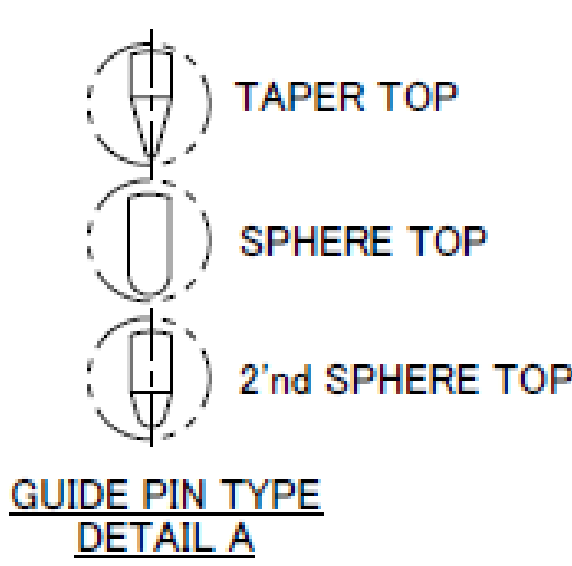
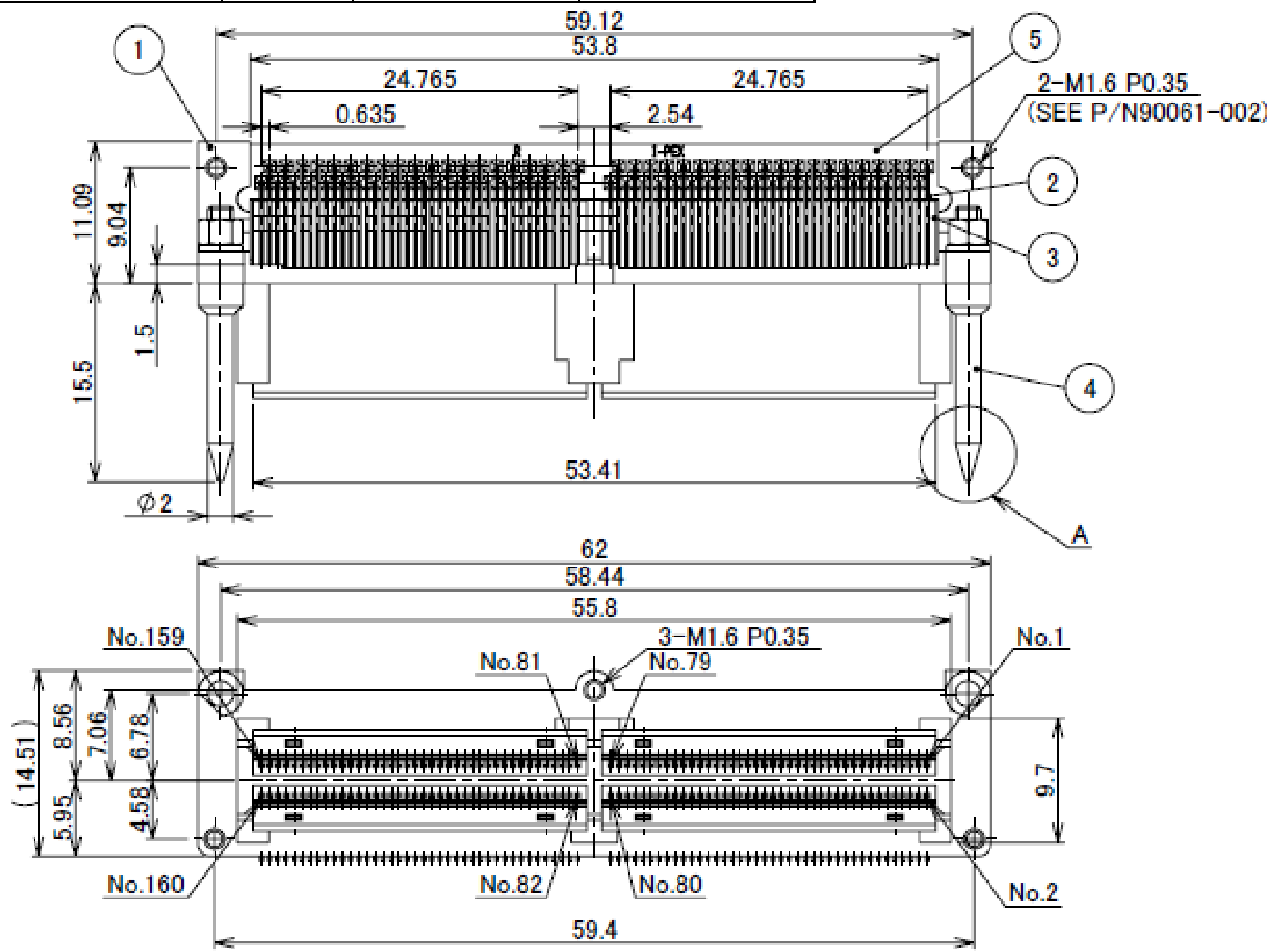
Receptacle Assembly

ITEMS	SPECIFICATION
RATING VOLTAGE	250V AC (PER CONTACT PIN)
RATING AMPERAGE (FOR CONTACT)	0.5A AC/DC (PER CONTACT PIN)
OPERATING TEMPERATURE	208~358K(-65°C~+85°C)
OPERATING HUMIDITY	85% MAX.(NON-CONDENSING)
CONTACT RESISTANCE (FOR CONTACT)	INITIAL : 70mohm MAX. / AFTER TEST : \angle 125mohm MAX.
INSULATION RESISTANCE	INITIAL : 10,000Mohm MIN. / AFTER TEST : 1,000Mohm MIN.
DIELECTRIC WITHSTANDING VOLTAGE	AC500V 1min
DURABILITY	5,000 CYCLES
MATING FORCE (INITIAL)	0.9N/pos. MAX.
UNMATING FORCE (AFTER TEST)	0.059N/pos. MIN.
COPLANARITY	-
PRODUCT SPECIFICATION	PRS-1011
TEST REPORT	TR-9020
PACKING STANDARD	300-071
INSTRUCTION MANUAL	-
APPEARANCE CRITERIA No.	QLS-A***

Rev.18

Recommended P/N 30047-160T-01F

PART NO.	Pos.	NOTES	GUIDE PIN P/N
30047-160T-F	160P	WITH SCREW	TAPER TOP
30047-160T-01F		WITHOUT SCREW	
30047-160T-02F		WITH SCREW	SPHERE TOP
30047-160T-03F		WITHOUT SCREW	
30047-160T-04F		WITH SCREW	2'nd SPHERE TOP
30047-160T-05F		WITHOUT SCREW	

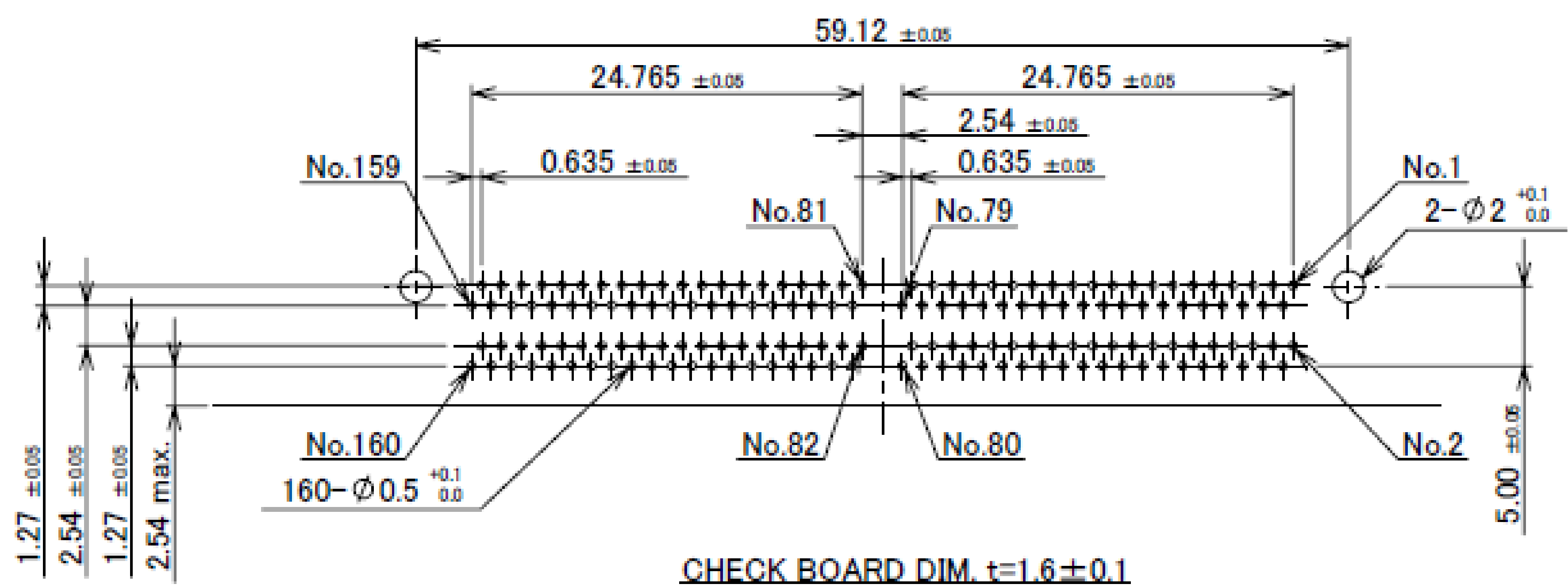


6	CONTACT GUIDE	PPS	BLACK UL94V-0
5	LOCATOR PLATE	PA	BLACK UL94V-0
4	GUIDE PIN	STEEL	Ni PLATING
3	RECE INSULATOR	PPS	BLACK UL94V-0
2	RECE CONTACT	COPPER ALLOY	Au PLATING
1	RECE SHELL	Zn ALLOY	Ni PLATING
NO.	DESCRIPTION	MATERIAL	FINISH , REMARKS

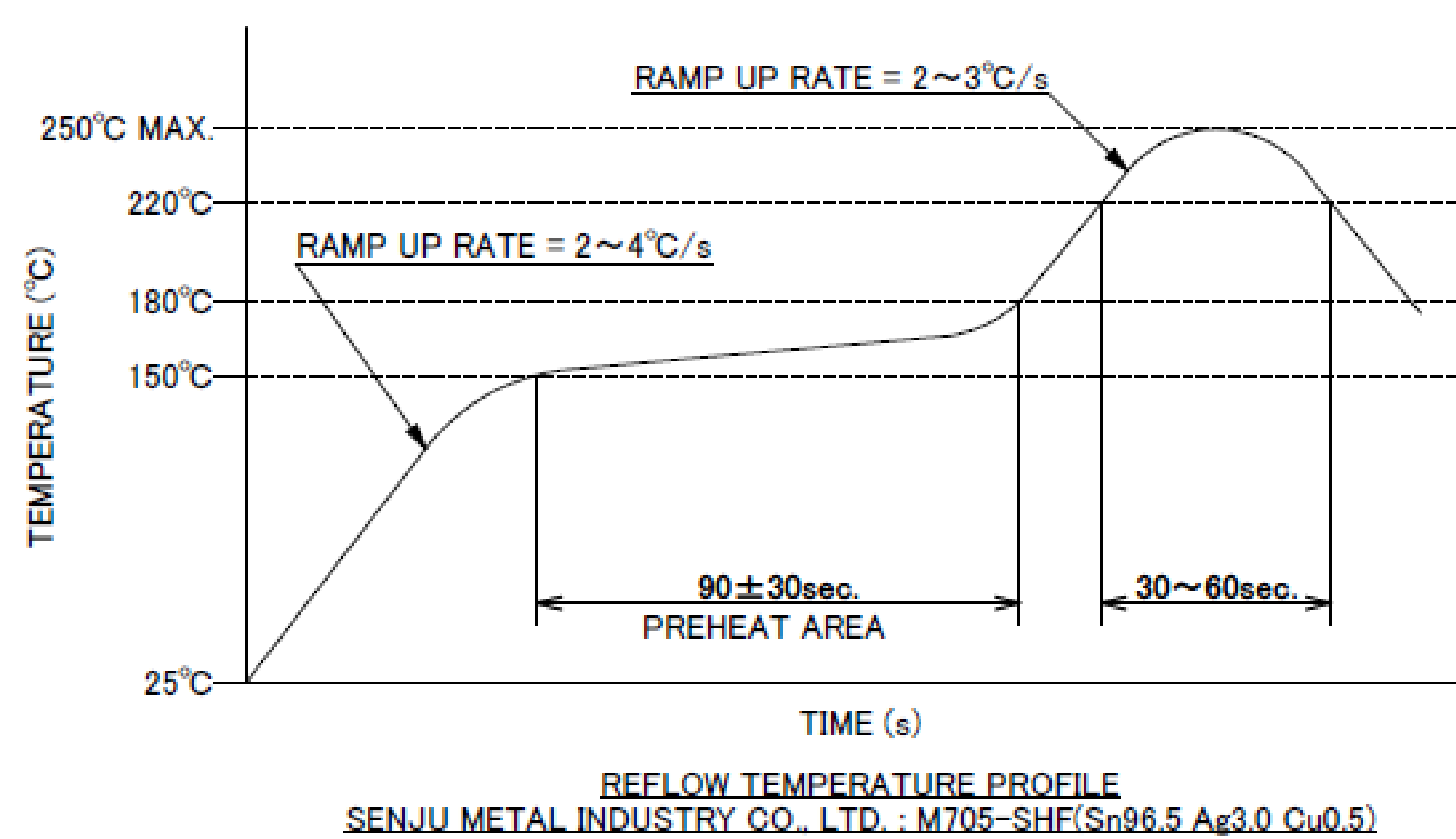
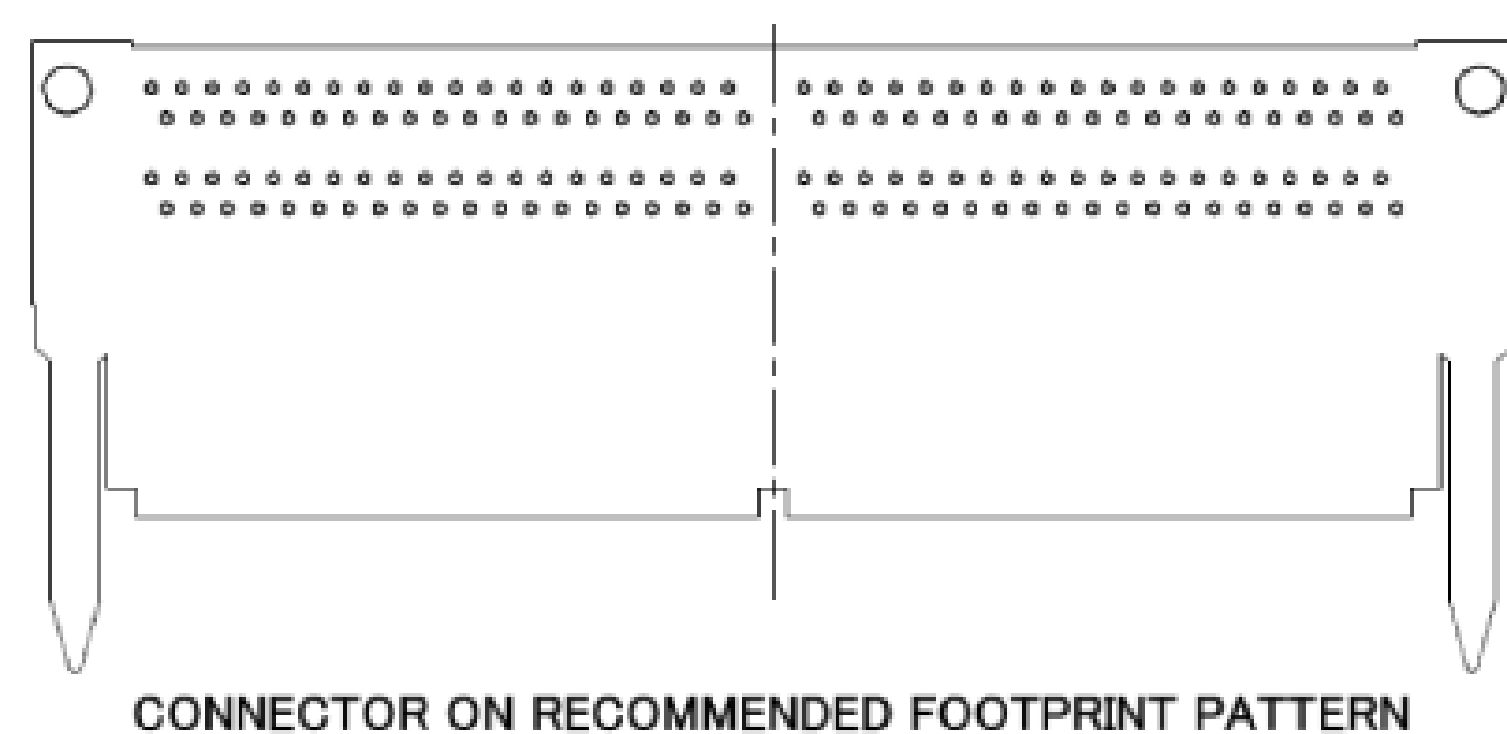
NOTES
1. CONNECTOR TO BE MATED : 30046

Rev.11

Receptacle Assembly



Rev.11



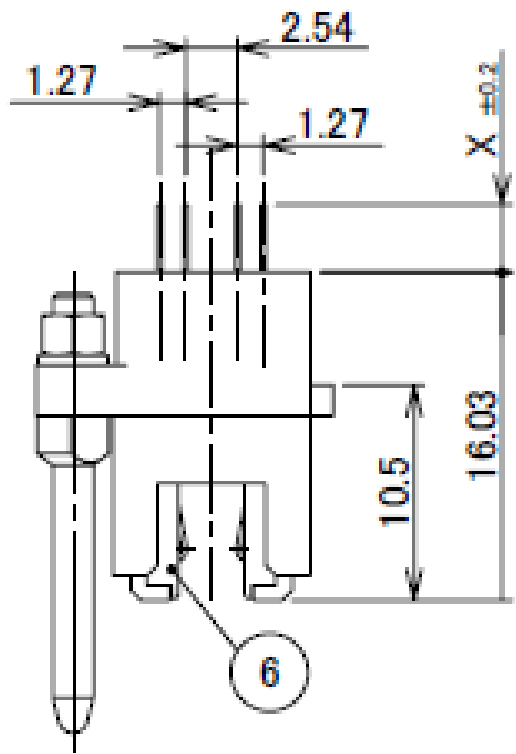
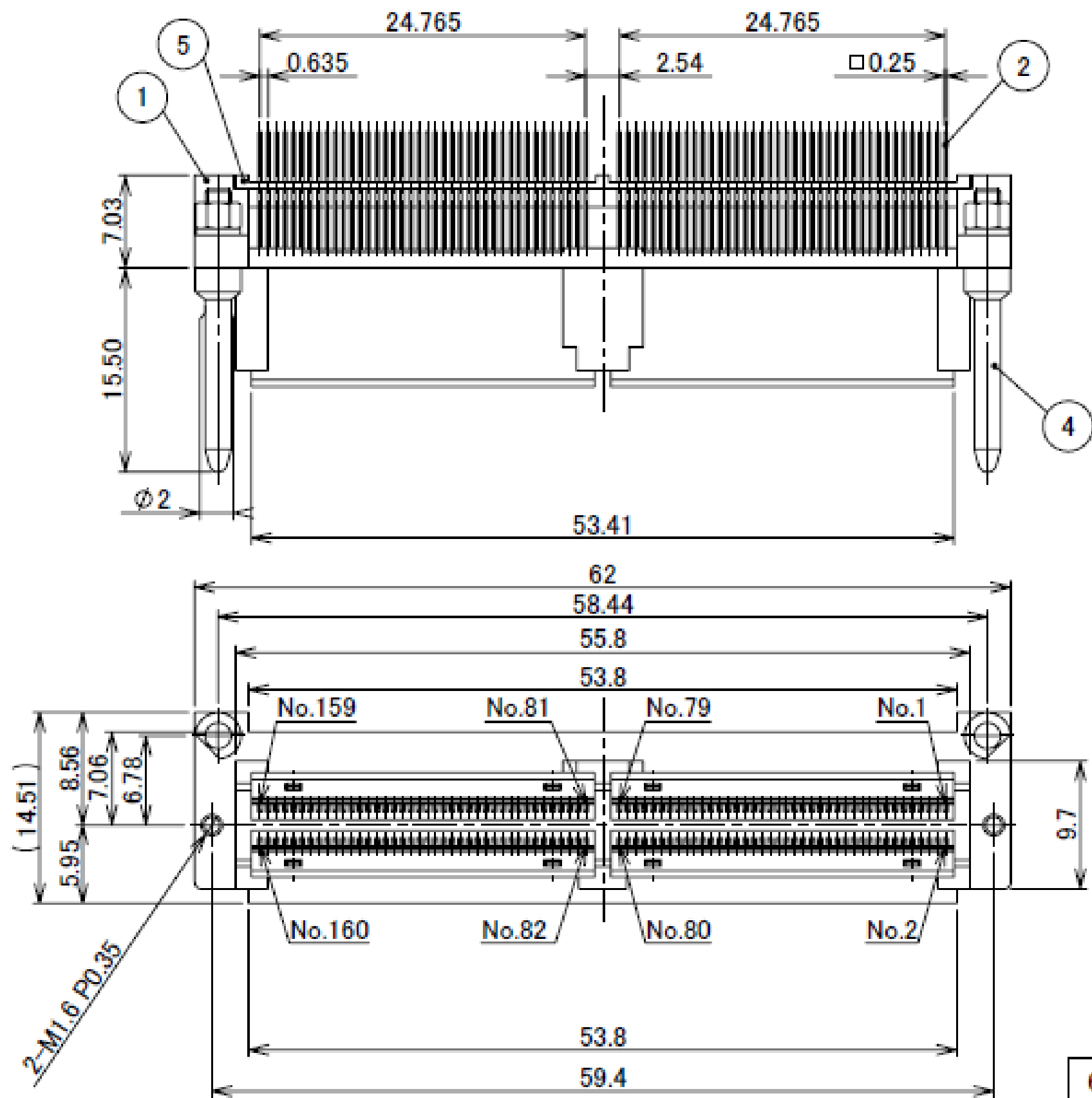
Rev.11

Receptacle Assembly

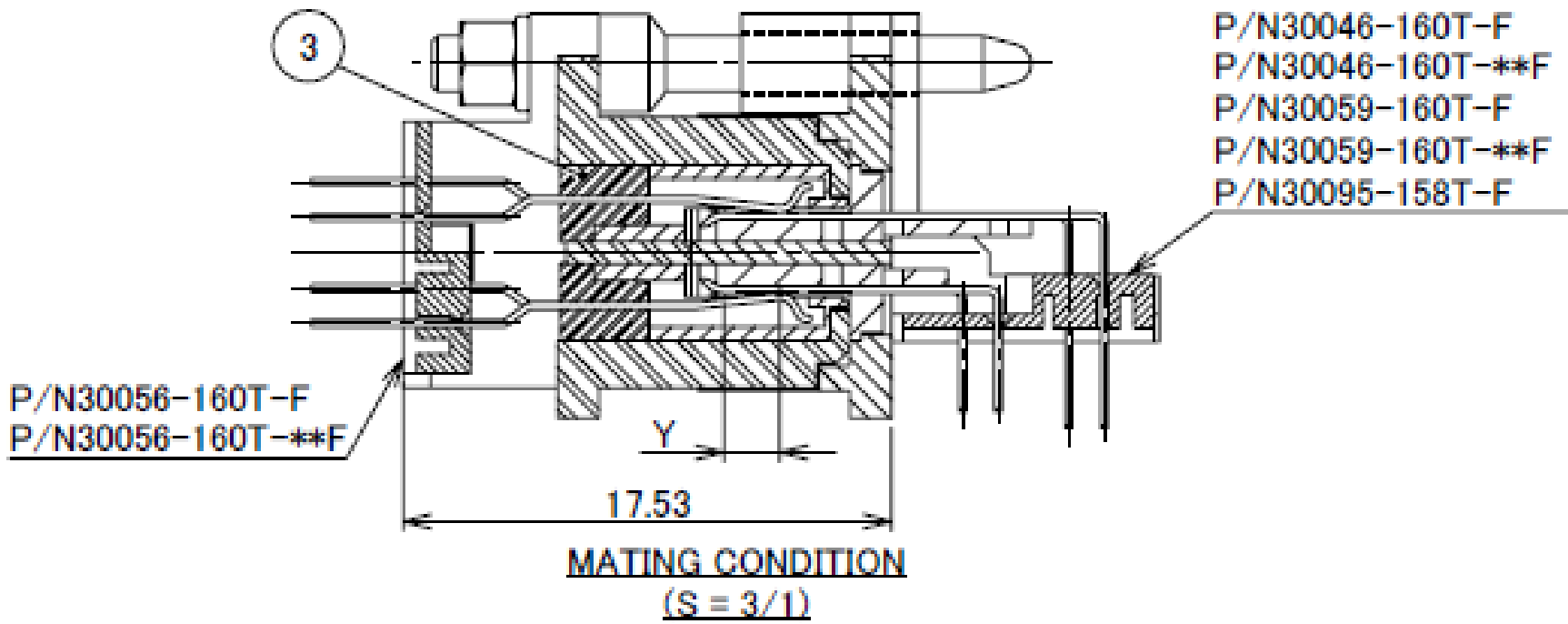
ITEMS	SPECIFICATION
RATING VOLTAGE	250V AC (PER CONTACT PIN)
RATING AMPERAGE (FOR CONTACT)	0.5A AC/DC (PER CONTACT PIN)
OPERATING TEMPERATURE	208~358K(-65℃~+85℃)
OPERATING HUMIDITY	85% MAX.(NON-CONDENSING)
CONTACT RESISTANCE (FOR CONTACT)	INITIAL : 70mohm MAX. / AFTER TEST : ≦25mohm MAX.
INSULATION RESISTANCE	INITIAL : 10,000Mohm MIN. / AFTER TEST : 1,000Mohm MIN.
DIELECTRIC WITHSTANDING VOLTAGE	AC500V 1min
DURABILITY	5,000 CYCLES
MATING FORCE (INITIAL)	0.9N/pos. MAX.
UNMATING FORCE (AFTER TEST)	0.059N/pos. MIN.
COPLANARITY	-
PRODUCT SPECIFICATION	PRS-1011
TEST REPORT	TR-9020
PACKING STANDARD	300-107
INSTRUCTION MANUAL	-
APPEARANCE CRITERIA No.	QLS-A***

Rev.11

PART NO.	LEAD DIMENSION X	NOTES
30056-160T-F	3.3	WITH SCREW
30056-160T-01F		WITHOUT SCREW



BE MATED	Y (MATING TRAVEL OF C/T)
P/N 30046-160T	1.4 , 2.1
P/N 30059-160T	0.7 , 1.4 , 2.1
P/N 30095-158T	0.7 , 1.4 , 2.1

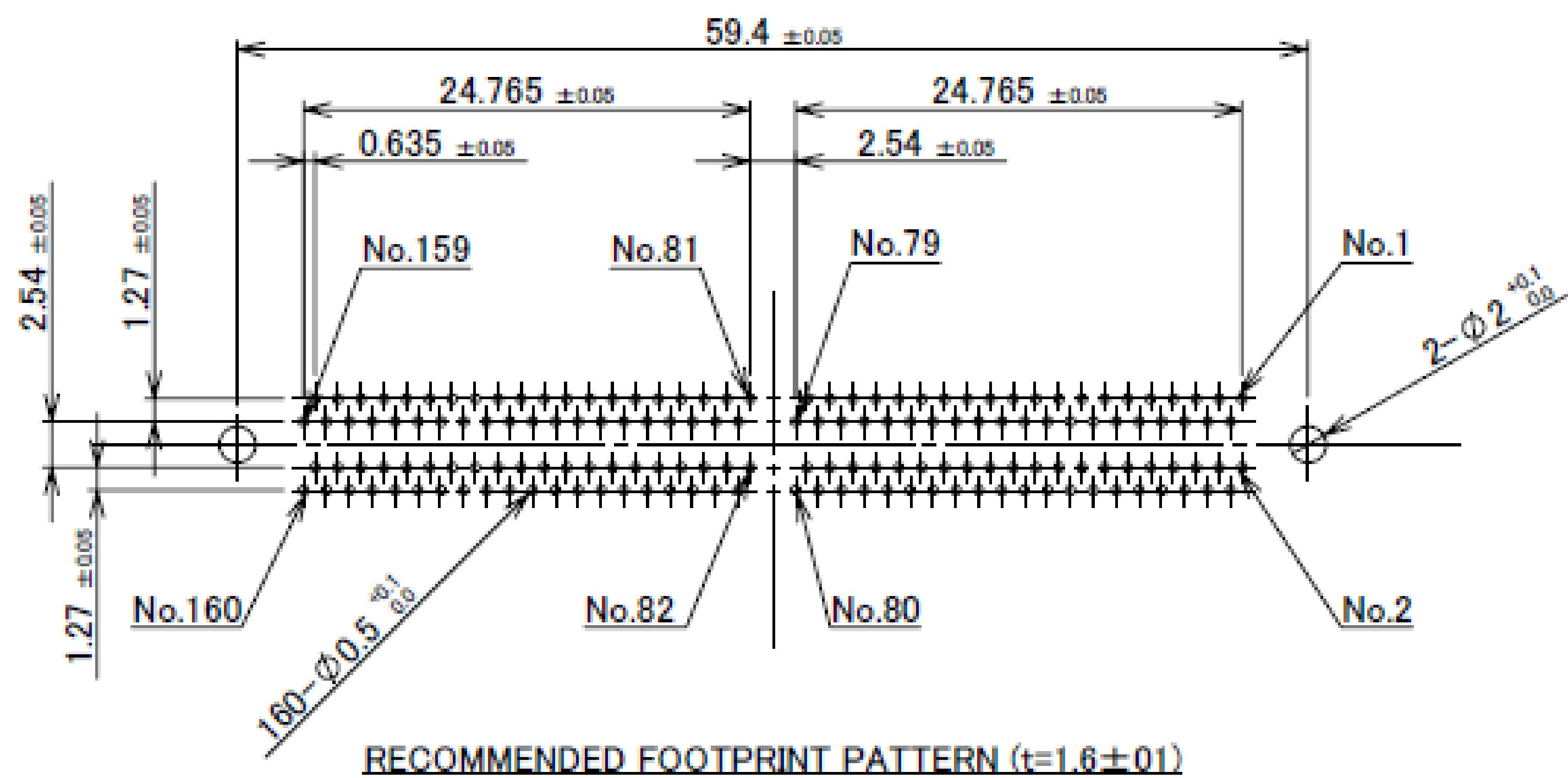


6	CONTACT GUIDE	PPS	BLACK UL94V-0
5	LOCATOR PLATE	PA	BLACK UL94V-0
4	GUIDE PIN	STEEL	Ni PLATING
3	RECE INSULATOR	PPS	BLACK UL94V-0
2	RECE CONTACT	COPPER ALLOY	CONTACT PART Au FLASH SOLDER TAIL Au FLASH
1	RECE SHELL	Zn ALLOY	Ni PLATING
NO.	DISCRIPTION	MATERIAL	FINISH , REMARKS

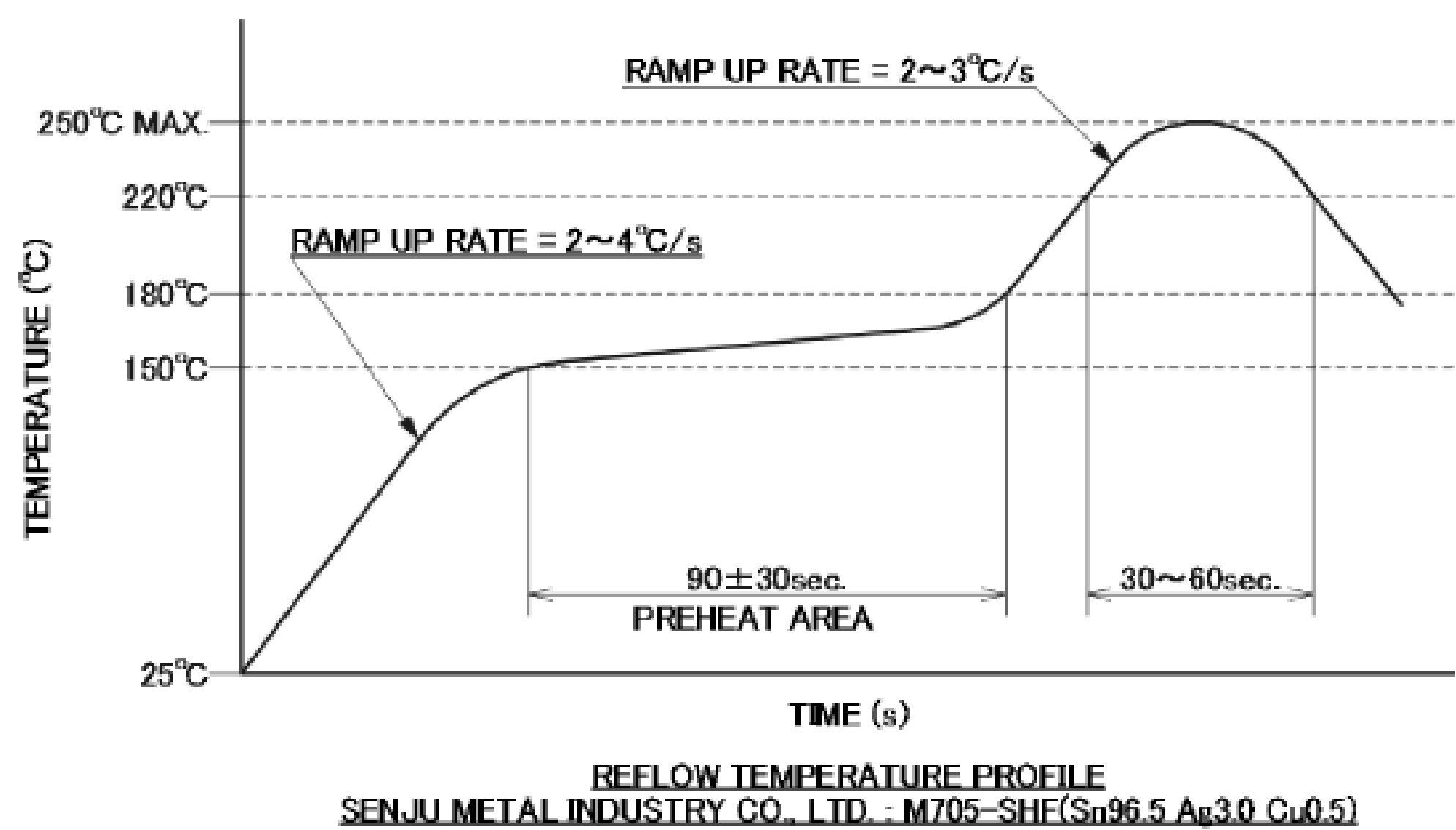
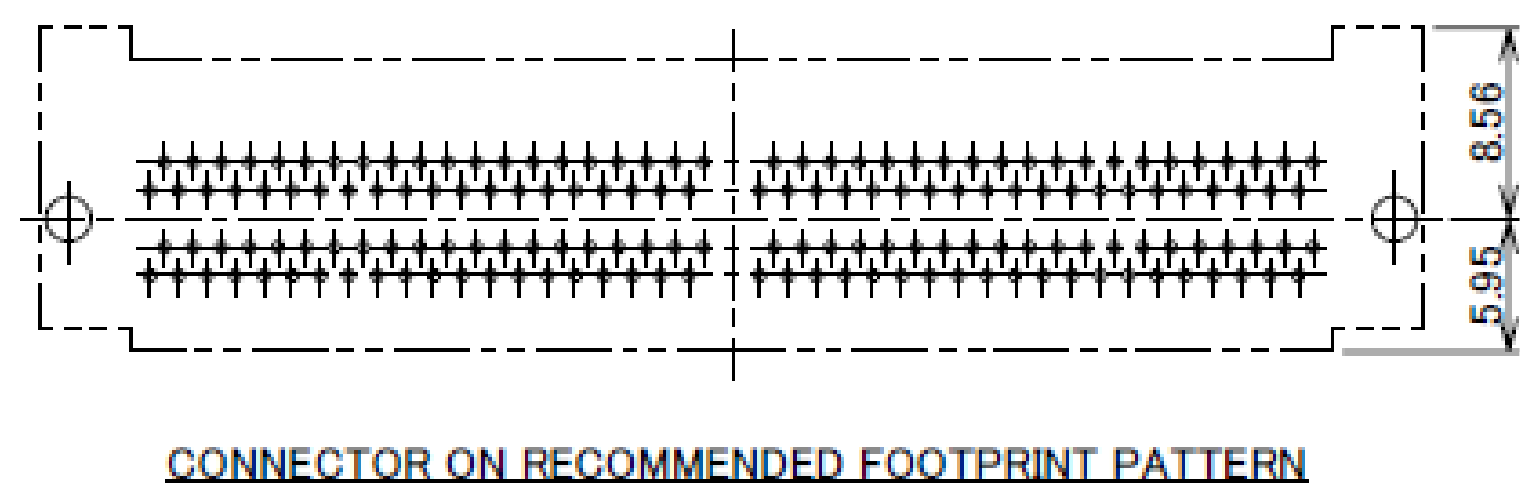
- NOTES
- CONNECTOR TO BE MATED: 30046, 30059, 30095
 - ALLOWANCE DIMENSION OF GUIDE PIN : 0.8 mm

Rev.12

Receptacle Assembly



Rev.12



Rev.12

Receptacle Assembly

ITEMS	SPECIFICATION
RATING VOLTAGE	250V AC (PER CONTACT PIN)
RATING AMPERAGE (FOR CONTACT)	0.5A AC/DC (PER CONTACT PIN)
OPERATING TEMPERATURE	208~358K(-65℃~+85℃)
OPERATING HUMIDITY	85% MAX.(NON-CONDENSING)
CONTACT RESISTANCE (FOR CONTACT)	INITIAL : 70mohm MAX. / AFTER TEST : \leq 25mohm MAX.
INSULATION RESISTANCE	INITIAL : 10,000Mohm MIN. / AFTER TEST : 1,000Mohm MIN.
DIELECTRIC WITHSTANDING VOLTAGE	AC500V 1min
DURABILITY	5,000 CYCLES
MATING FORCE (INITIAL)	0.9N/pos. MAX.
UNMATING FORCE (AFTER TEST)	0.059N/pos. MIN.
COPLANARITY	-
PRODUCT SPECIFICATION	PRS-1011
TEST REPORT	TR-9020
PACKING STANDARD	300-151
INSTRUCTION MANUAL	-
APPEARANCE CRITERIA No.	QLS-A***

Board to
Board



High-Density



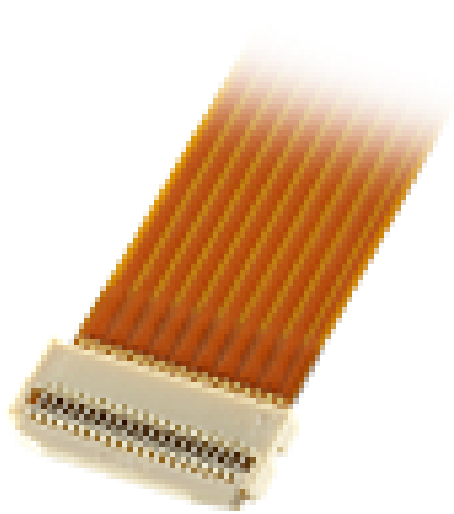
Autolocking
FPC/FFC



High-Density



FPC/FFC



Micro-Coaxial
/ Discrete Cable



High-Speed



RF



High-Frequency



Optical
Module



High-Speed



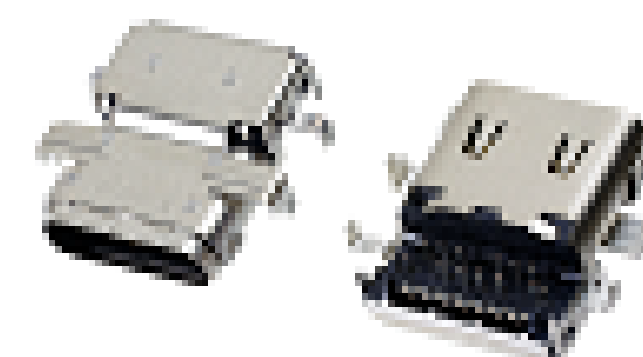
Power



High-Power



I/O
(Input/Output)



Quick charge



Effector



Custom
Connectors
Available

Inquiry



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