

APPLICABLE STANDARD				
RATING	OPERATING TEMPERATURE RANGE	-35 °C TO +105°C (NOTE1)	STORAGE TEMPERATURE RANGE	-10 °C TO +60°C (NOTE3)
	OPERATING HUMIDITY RANGE	20% TO 80% (NOTE2)	STORAGE HUMIDITY RANGE	40% TO 70% (NOTE3)
	APPLICABLE CONNECTOR	DF59S-1S-V	CURRENT	3A
			VOLTAGE	SPECIFICATION
		UL/C-UL	TBD	
		TÜV	TBD	

### SPECIFICATIONS

ITEM	TEST METHOD	REQUIREMENTS	QT	AT
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CONSTRUCTION				
GENERAL EXAMINATION	VISUALLY AND BY MEASURING INSTRUMENT.	ACCORDING TO DRAWING.	X	X
MARKING	CONFIRMED VISUALLY.		X	X

ELECTRIC CHARACTERISTICS				
CONTACT RESISTANCE	DC6V MAX, 100mA.	50mΩ MAX.	X	-

MECHANICAL CHARACTERISTICS				
MECHANICAL OPERATION	10TIMES INSERTION AND EXTRACTION.	①50mΩ MAX. ②NO DAMAGE, CRACK OR LOOSENESS OF PARTS.	X	-
VIBRATION	FREQUENCY 10 TO 55Hz, SINGLE AMPLITUDE 0.75mm, AT 10CYCLES FOR 3DIRECTION.	①NO ELECTRICAL DISCONTINUITY OF 1 μs. ②NO DAMAGE, CRACK OR LOOSENESS OF PARTS.	X	-
SHOCK	490 m/s <sup>2</sup> DURATION OF PULSE 11 ms AT 3 TIMES FOR 3 DIRECTIONS.		X	-

ENVIRONMENTAL CHARACTERISTICS				
DAMP HEAT (STEADY STATE)	EXPOSED AT 40 ± 2°C , 90 TO 95 % , 96 h. (AFTER LEAVING THE ROOM TEMPERATURE FOR 1~2h.)	①50mΩ MAX. ②NO DAMAGE, CRACK OR LOOSENESS OF PARTS.	X	-
RAPID CHANGE OF TEMPERATURE	TEMPERATURE -55°C → +85°C TIME 30min → 30min UNDER 5 CYCLES. (THE TRANSFERRING TIME OF THE TANK IS 2~3 min) (AFTER LEAVING THE ROOM TEMPERATURE FOR 1~2h.)		X	-

NOTE 1: INCLUDE THE TEMPERATURE RISING BY CURRENT.  
 NOTE2:NO CONDENSING  
 NOTE3:APPLY TO THE CONDITION OF LONG TERM STORAGE FOR UNUSED PRODUCTS BEFOR PCB ON BOARD, AFTER PCB BOARD , OPERATING TEMPERATURE AND HUMIDITTY RANGE IS APPLIED FOR INTERIM STRAGE DURING TRANSPORTATION.  
 NOTE4:APPLY TO THE CONDITION OF PARALLEL ARRANGEMENT THE SIZE BETWEEN PATTERN:3.0mm MIN FOR THE VOLTAGE.

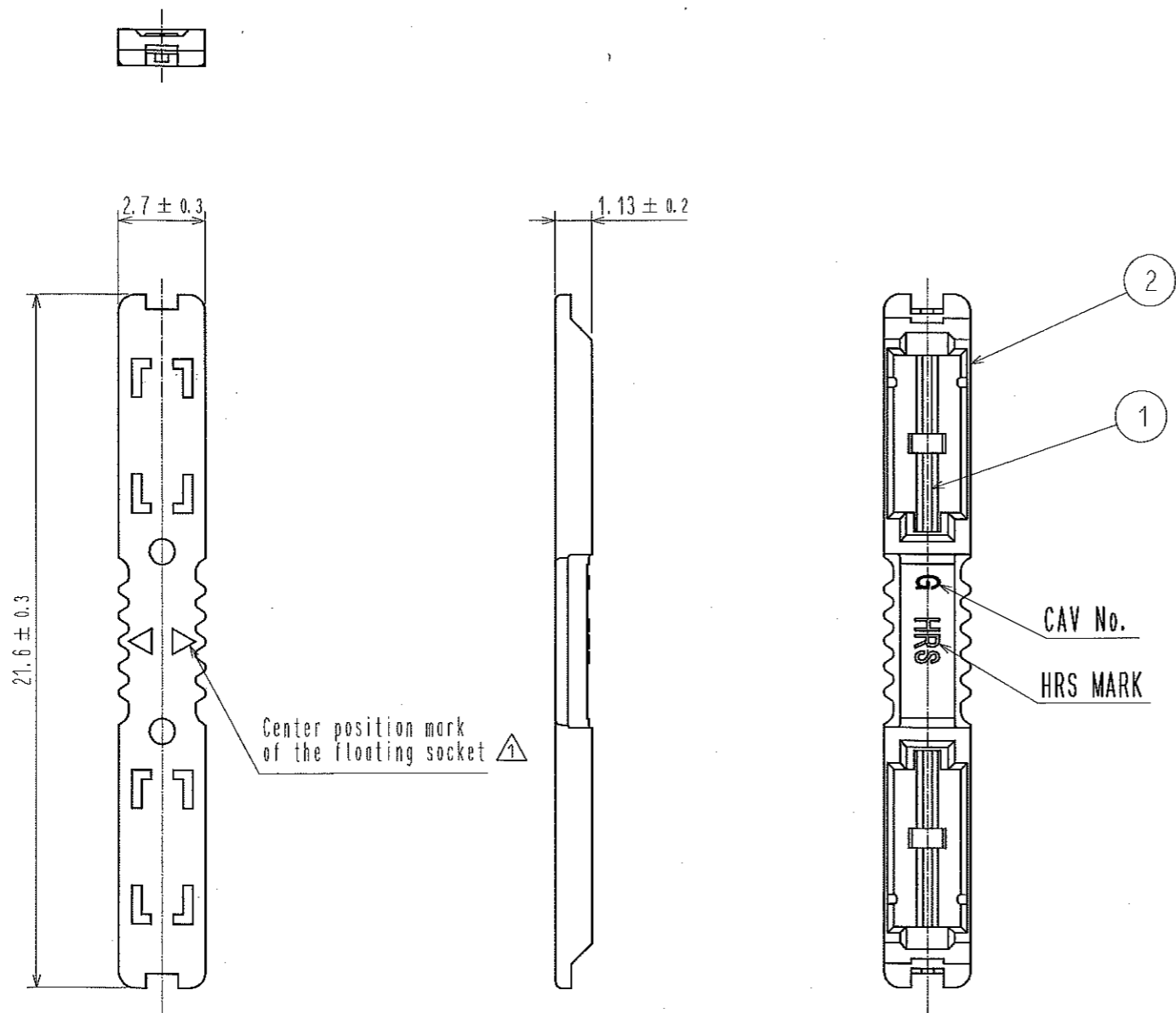
COUNT	DESCRIPTION OF REVISIONS	DESIGNED	CHECKED	DATE
△				

REMARKS	APPROVED	KI. AKIYAMA	12.11.14
	CHECKED	OM. MIYAMOTO	12.11.14
	DESIGNED	KT. ISHII	12.11.13
	DRAWN	KT. ISHII	12.11.13

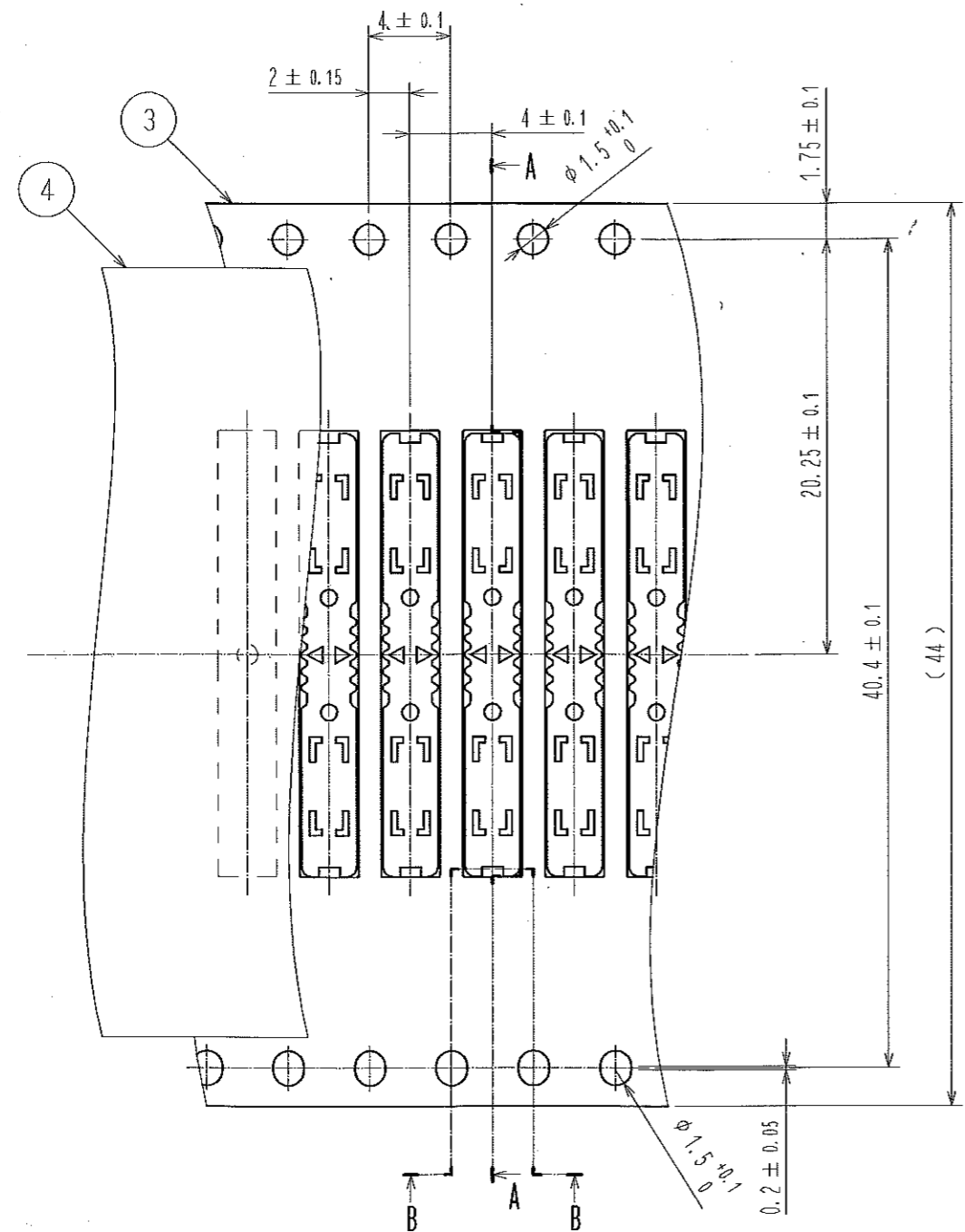
Note QT:Qualification Test AT:Assurance Test X:Applicable Test

<b>HRS</b>	SPECIFICATION SHEET	PART NO.	DF59S-1P-FC (24)
	HIROSE ELECTRIC CO., LTD.	CODE NO.	CL667-0023-3-24

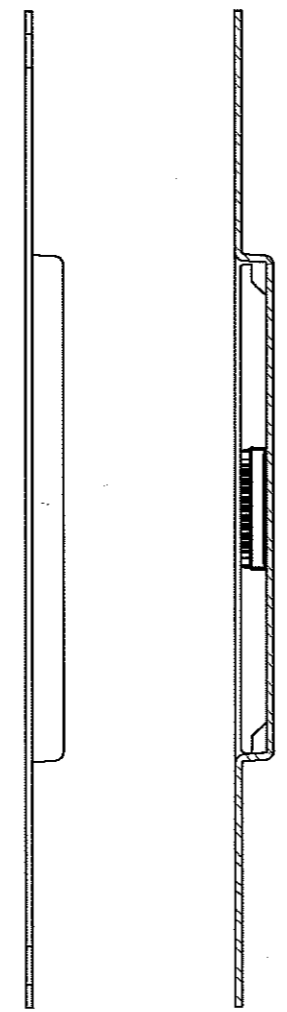


NOTE1. REFER TO THE DF59S SERIES MATING/UNMATING OPERATION INSTRUCTION MANUAL (ETAD-H0651) FOR THE OPERATING OF THE PRODUCT.

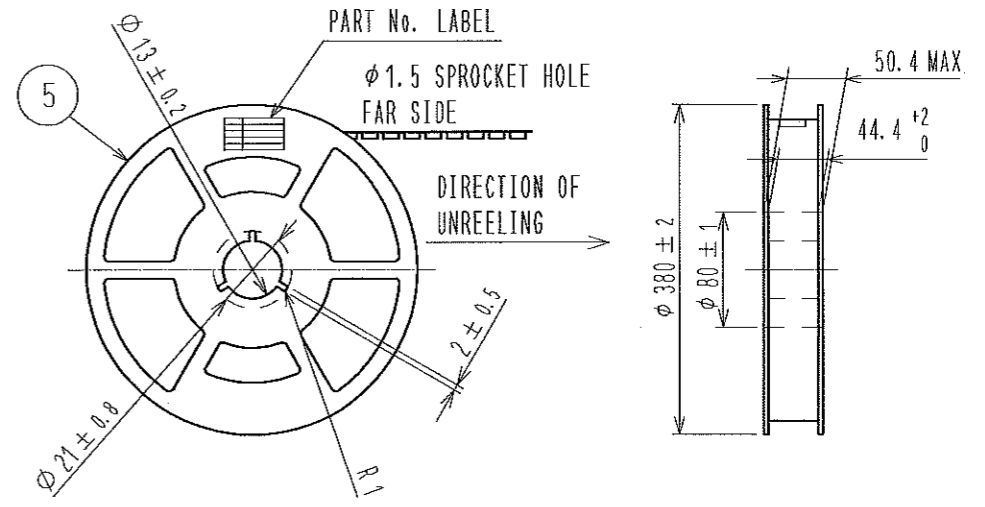
2	LCP	UL94V-0. BEIGE	5	PS	REEL, BLACK
1	BRASS	SURFACE:TIN PLATING 1μm MIN	4	POLYESTER	CLEAR(COVER TAPE)
		UNDER PLATING:Cu PLATING 0.3μm MIN	3	PS	CLEAR(EMBOSSSED CARRIER TAPE)
NO.	MATERIAL	FINISH, REMARKS	NO.	MATERIAL	FINISH, REMARKS
UNITS mm		SCALE 5 : 1	COUNT 1	DESCRIPTION OF REVISIONS DIS-H-007568	
HIROSE ELECTRIC CO., LTD.			APPROVED : KI. AKIYAMA 12.11.14	DESIGNED	MI. SAKIMURA
			CHECKED : OM. MIYAMOTO 12.11.14	CHECKED	TS. KUMAZAWA
			DESIGNED : KT. ISHII 12.11.13	DATE	13.01.23
			DRAWN : KT. ISHII 12.11.13	DRAWING NO. EDC3-342886-03	
			PART NO. DF59S-1P-FC(24)		
			CODE NO. CL667-0023-3-24		



A-A(FREE)



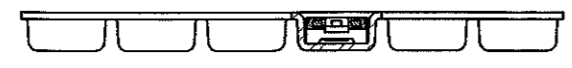
STYLE AND DIMENSION OF REEL(FREE)



DETAIL OF PART No. LABEL

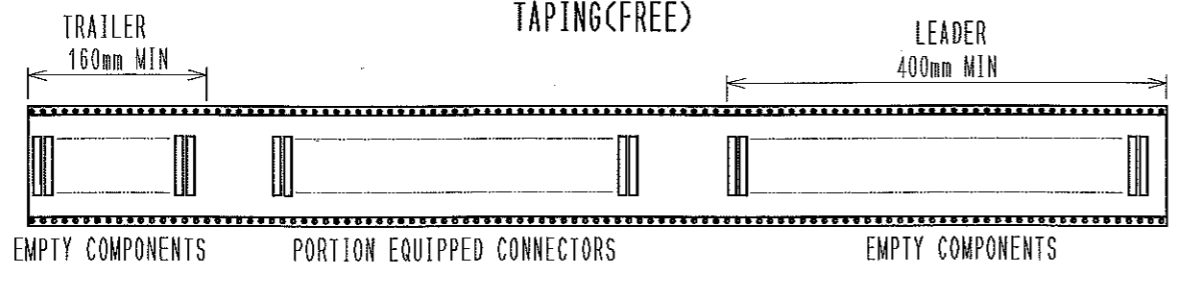
生産月日	年 月 日
図 番	CL667-0023-3-24
品 名	DF59S-1P-FC(24)
納入数量	1000 K0
納入者	ヒロセ電機(株)

B-B(FREE)



DIRECTION OF UNREELING →

TAPING(FREE)



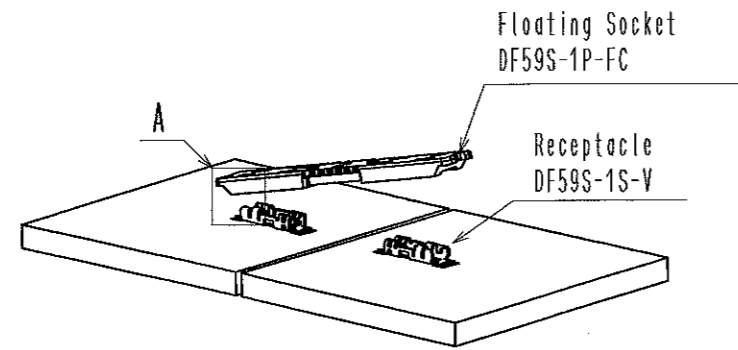
NOTE2. 1REEL:1000 CONNECTORS.  
3. THE DIMENSIONS IN PARENTESES ARE FOR REFERENCE.

<b>HRS</b>	DRAWING NO.	EDC3-342886-03
	PART NO.	DF59S-1P-FC(24)
	CODE NO.	CL667-0023-3-24
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# DF59S Operation Procedures for Floating Socket

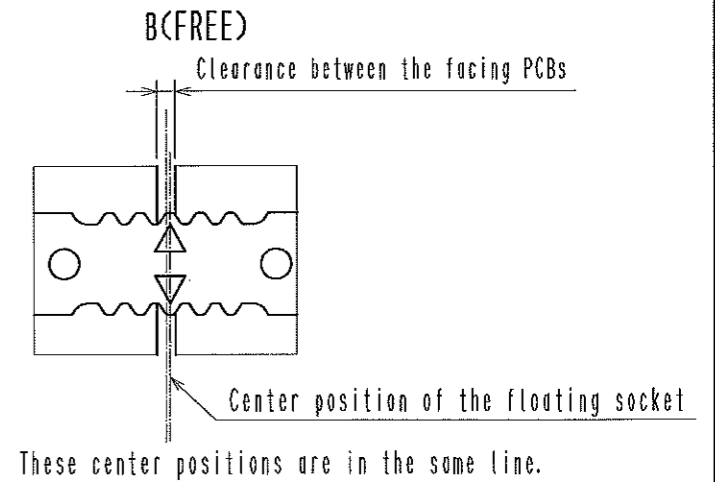
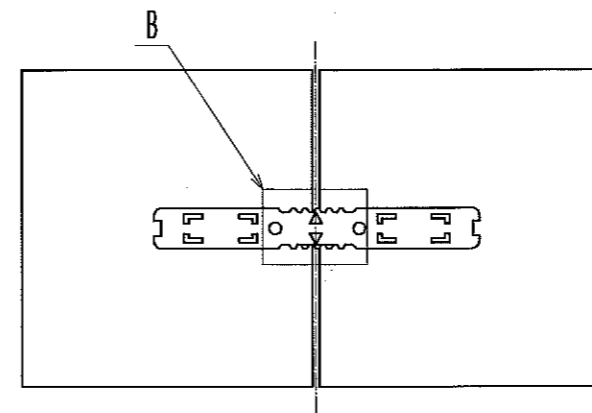
## «Mating»

1. Place the floating socket at the tip on the receptacle mating point.



2. Align the center position of floating socket to the center position of the clearance between the facing PCBs in a line.

Press down at the center surface of the floating socket.

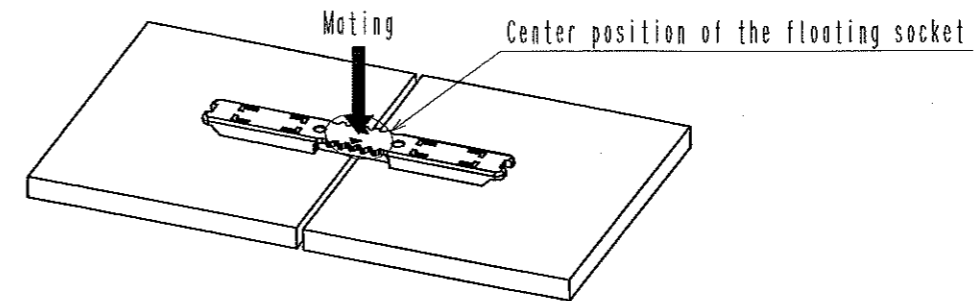
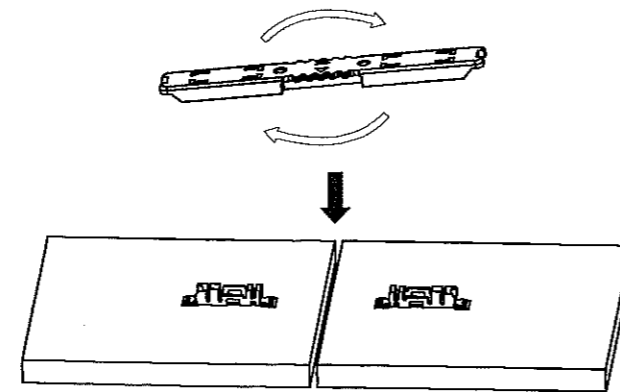
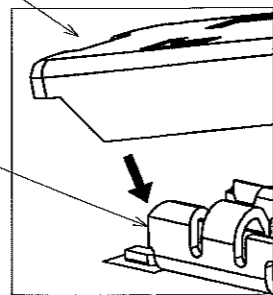


Floating socket at the tip

A(FREE)

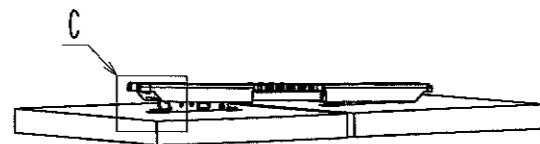
※Floating socket can be mating both directions.

Receptacle mating point



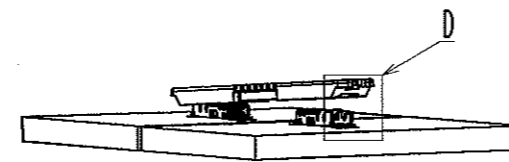
## «Unmating»

1. Hook the lever on either sides of floating socket with finger and lift up to the upper direction for unlock. (Lift up until friction lock is released.)



C(FREE)

2. After releasing either side, hook the lever on the other side with a finger and lift up to the upper direction, too.

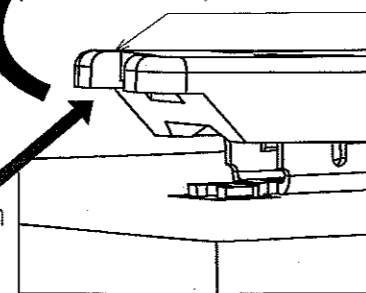


D(FREE)

Unmating

Lever to pull up

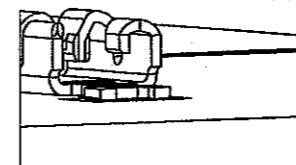
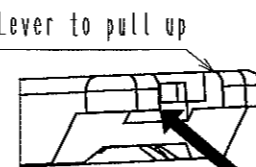
Finger position



Lever to pull up

Unmating

Finger position



**HRS**

DRAWING NO.	EDC3-342886-03
PART NO.	DF59S-1P-FC(24)
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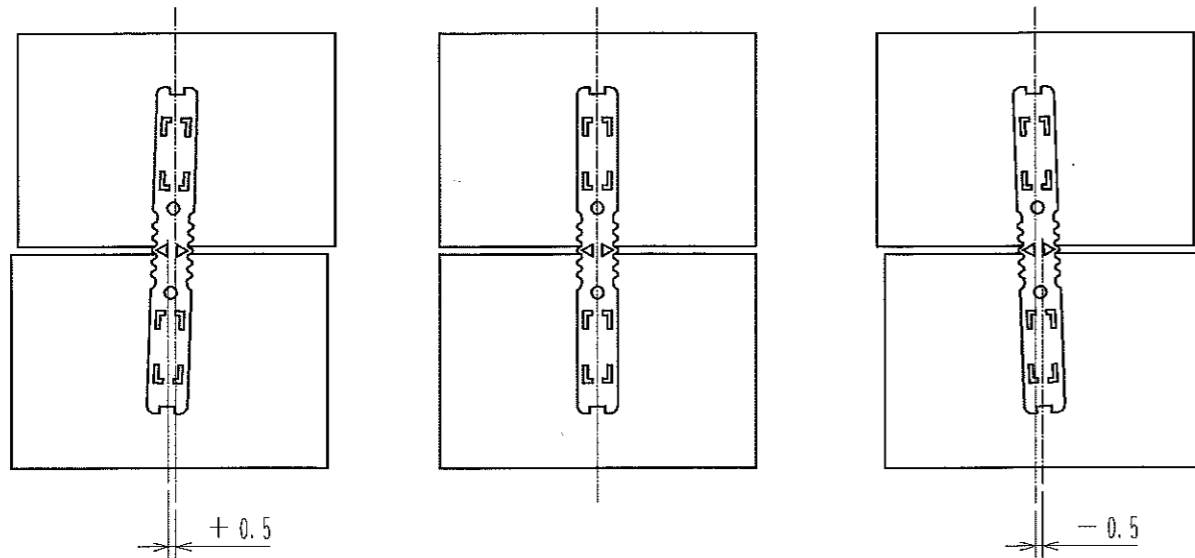
# DF59S Dimension of floating

The dimension of floating at the time of using a floating socket is shown below.  
Please use in the limits of dimension.

## 《Direction of X axis》

The dimension of floating of X direction is shown below.

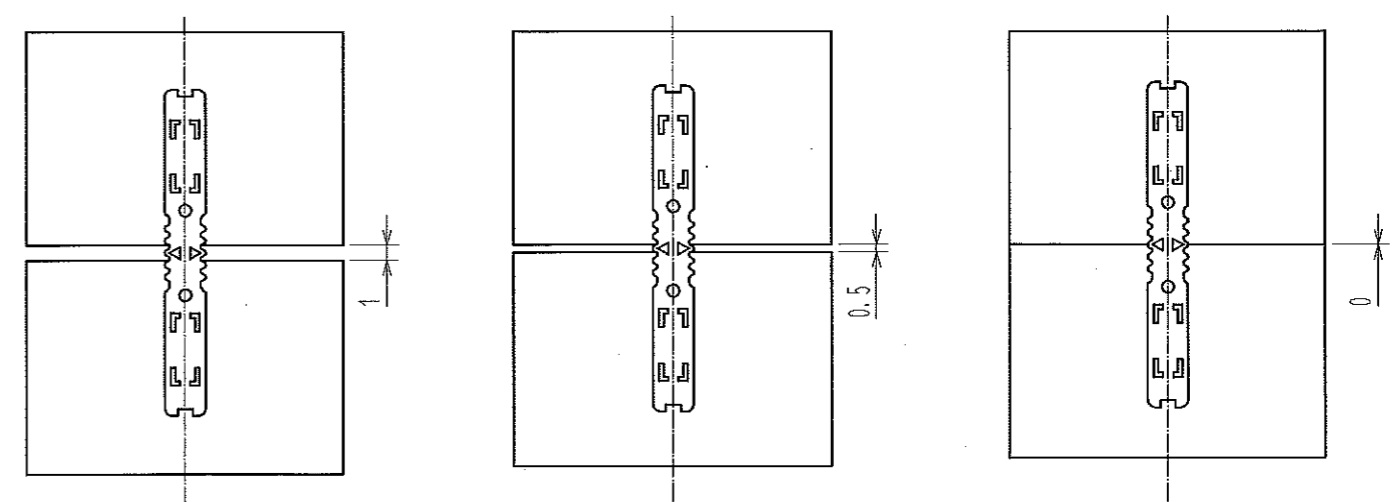
Direction of X axis floating: +0.5mm   
  Normal mating   
  Direction of X axis floating: -0.5mm



## 《Direction of Y axis》

The dimension of floating of Y direction is shown below.

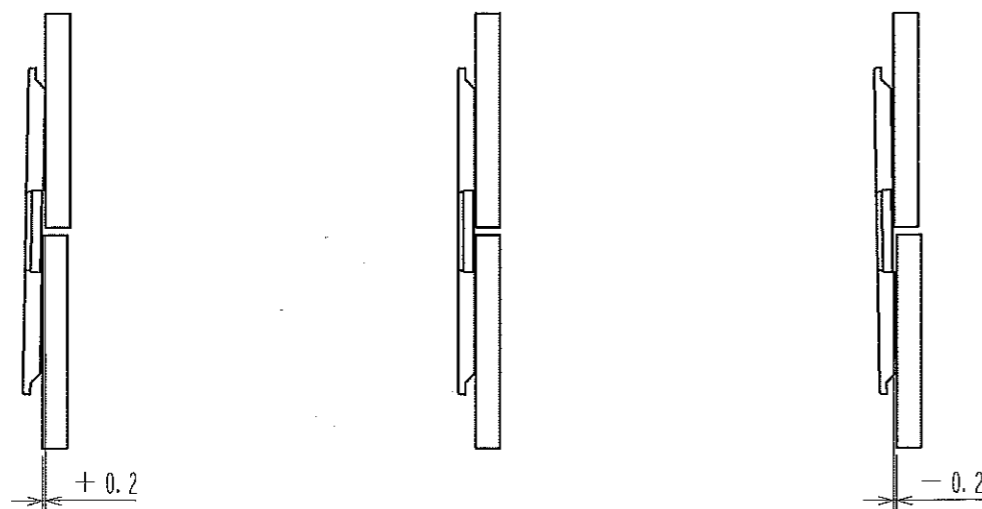
Direction of Y axis floating: +0.5mm   
  Normal mating   
  Direction of Y axis floating: -0.5mm



## 《Direction of Z axis》

The dimension of floating of Z direction is shown below.

Direction of Z axis floating: +0.2mm   
  Normal mating   
  Direction of Z axis floating: -0.2mm



<b>HRS</b>	図番:	EDC3-342886-03	
	製品名:	DF59S-1P-FC(24)	
	製品コード:	CL667-0023-3-24	