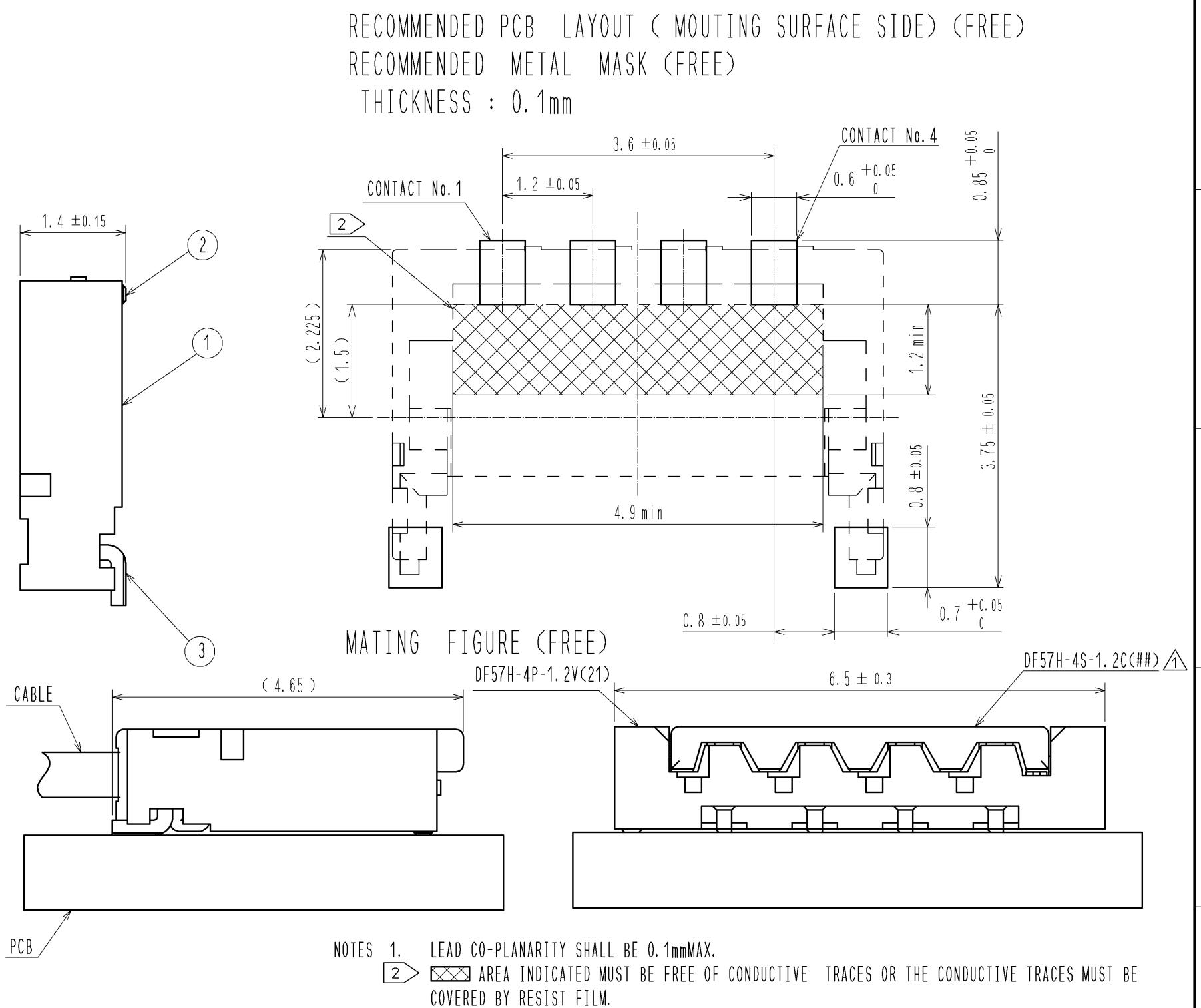
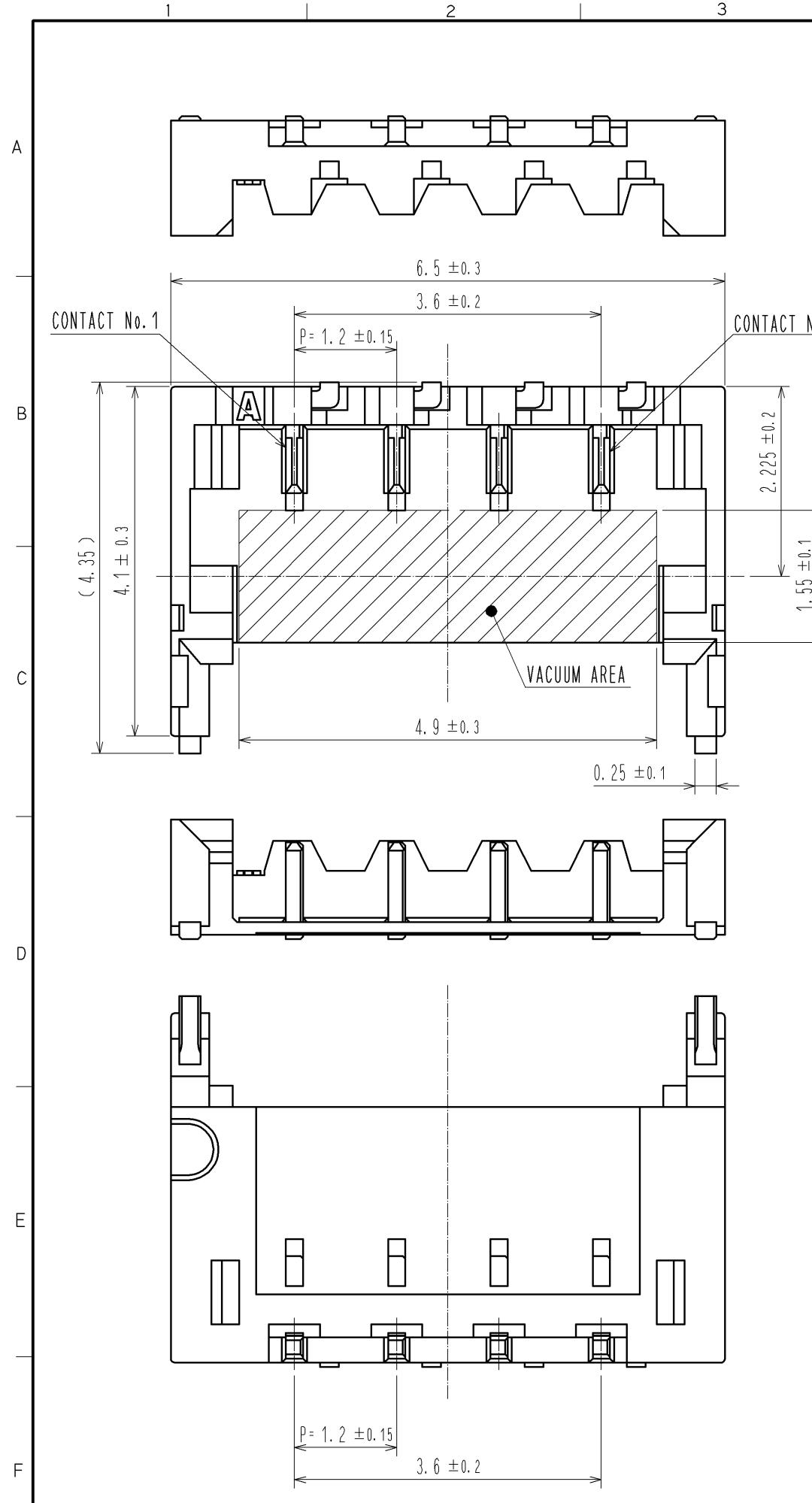
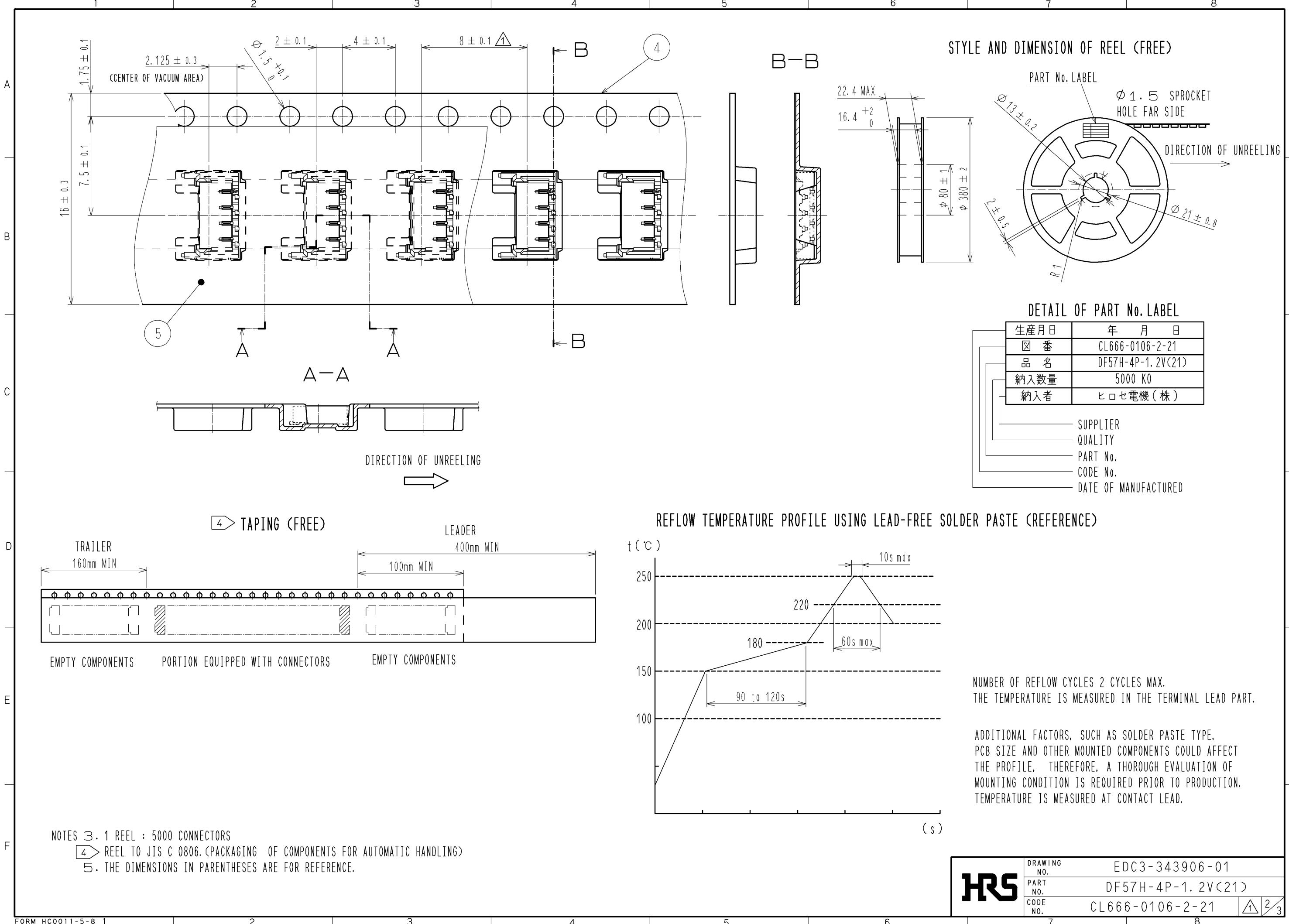


APPLICABLE STANDARD		SPECIFICATIONS					
RATING	OPERATING TEMPERATURE RANGE	-35 °C TO +85°C (NOTE1)	STORAGE TEMPERATURE RANGE	-10 °C TO +60°C (NOTE3)			
	OPERATING HUMIDITY RANGE	20% TO 80% (NOTE2)	STORAGE HUMIDITY RANGE	40% TO 70% (NOTE3)			
	APPLICABLE CONNECTOR	DF57H-4S-1.2C(##)		CURRENT	AWG 28 : 1.5A AWG 30 : 1.0A AWG 32 : 0.8A AWG 34 : 0.5A		
	VOLTAGE	50 V AC/DC					
CONSTRUCTION							
GENERAL EXAMINATION	VISUALLY AND BY MEASURING INSTRUMENT.		ACCORDING TO DRAWING.		X X		
MARKING	CONFIRMED VISUALLY.				X X		
ELECTRIC CHARACTERISTICS							
CONTACT RESISTANCE MILLIVOLT LEVEL METHOD	20mV MAX, 1mA (DC or 1000Hz).		10 mΩ MAX.		X —		
INSULATION RESISTANCE	100 V DC.		100 MΩ MIN.		X —		
VOLTAGE PROOF	500 V AC FOR 1 min.		NO FLASHOVER OR BREAKDOWN.		X —		
MECHANICAL CHARACTERISTICS							
MECHANICAL OPERATION	30 TIMES INSERTION AND EXTRACTION.		①CONTACT RESISTANCE: 20 mΩ MAX. ②NO DAMAGE, CRACK OR LOOSENESS OF PARTS.		X —		
CONTACT INSERTION AND EXTRACTION FORCES	IT TAKES OUT AND INSERTS WITH A CONFORMITY CONNECTOR.		①INSERTION FORCE : 24.0N MAX. ②EXTRACTION FORCE: 1.2N MIN.		X —		
VIBRATION	FREQUENCY 10 TO 55 Hz, SINGLE AMPLITUDE 0.75 mm, AT 10 CYCLES FOR 3 DIRECTION.		①NO ELECTRICAL DISCONTINUITY OF 1 μs. ②NO DAMAGE, CRACK OR LOOSENESS OF PARTS.		X —		
SHOCK	490 m/s ² 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.)		①CONTACT RESISTANCE: 20 mΩ MAX. ②INSULATION RESISTANCE: 100 MΩ MIN. ③NO 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.)		①CONTACT RESISTANCE: 20 mΩ MAX. ②INSULATION RESISTANCE: 100 MΩ MIN. ③NO DAMAGE, CRACK OR LOOSENESS OF PARTS.		X —		
RESISTANCE TO SOLDERING HEAT	1) REFLOW SOLDERING «REFLOW TIME» NUMBER OF REFLOW CYCLES : 2 CYCLES MAX. DURATION ABOVE 220 °C, 60 sec. MAX. PEAK TEMPERATURE: 250°C 10 sec. MAX. «PRE-HEAT TIME» PRE-HEAT TEMPERATURE (MIN) : 150 °C PRE-HEAT TEMPERATURE (MAX) : 180 °C PRE-HEAT TIME (MIN) : 90 sec. PRE-HEAT TIME (MAX) : 120 sec. 2) MANUAL SOLDERING SOLDERING IRON TEMPERATURE : 350±10°C, SOLDERING TIME : 3sec. NO STRENGTH ON CONTACT.		NO DEFORMATION OF CASE OF EXCESSIVE LOOSENESS OF THE TERMINALS.		X —		
SOLDERABILITY	SOLDERING TEMPERATURE : 245°C DURATION OF IMMERSION : SOLDERING, FOR 5 sec.		NEW UNIFORM COATING OF SOLDER SHALL COVER MINIMUM OF 95 % OF THE SURFACE BEING IMMERSED.		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 HUMIDITY RANGE IS APPLIED FOR INTERIM STRAGE DURING TRANSPORTATION.							
COUNT	DESCRIPTION OF REVISIONS		DESIGNED	CHECKED	DATE		
0							
REMARKS				APPROVED	KI. AKIYAMA 12.03.19		
				CHECKED	HK. UMEHARA 12.03.19		
				DESIGNED	TS. KUMAZAWA 12.03.19		
				DRAWN	TS. KUMAZAWA 12.03.19		
Note QT:Qualification Test AT:Assurance Test X:Applicable Test			DRAWING NO.		ELC4-343906-01		
	SPECIFICATION SHEET		PART NO.	DF57H-4P-1.2V(21)			
	HIROSE ELECTRIC CO., LTD.		CODE NO.	CL666-0106-2-21	△ 1/1		



NO.	MATERIAL	FINISH , REMARKS	UNITS mm	SCALE FREE	COUNT 2	DESCRIPTION OF REVISIONS DIS-H-007104	DESIGNED	CHECKED	DATE
							TS. KUMAZAWA	HK. UMEHARA	12.08.06
3	BRASS	SURFACE:TIN PLATING 1μmMIN UNDER PLATING:NICKEL PLATING 0.5μmMIN					APPROVED : KI. AKIYAMA	12.03.19	DRAWING NO. EDC3-343906-01
2	BRASS	SURFACE:TIN PLATING 1μmMIN UNDER PLATING:NICKEL PLATING 0.5μmMIN					CHECKED : HK. UMEHARA	12.03.19	PART NO. DF57H-4P-1.2V(21)
1	LCP	UL94V-0, BLACK					DESIGNED : TS. KUMAZAWA	12.03.19	CODE NO. CL666-0106-2-21
							DRAWN : TS. KUMAZAWA	12.03.19	

HRS HIROSE ELECTRIC CO., LTD.



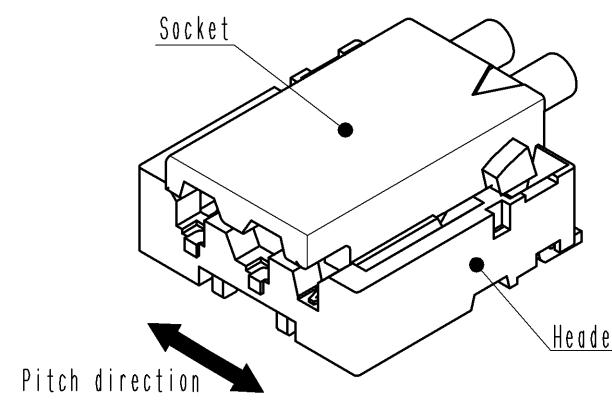
DF57 Series Mating / Unmating Operation Instruction

A

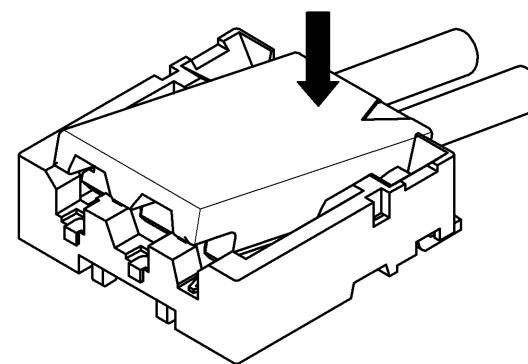
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Mating

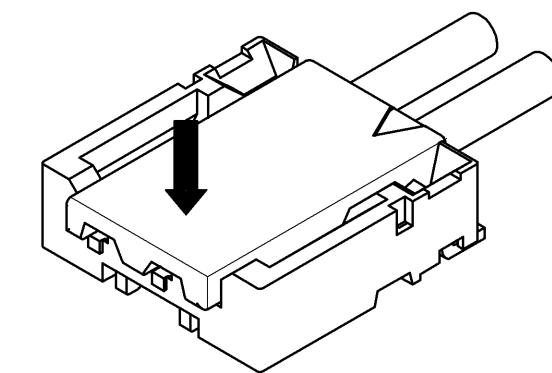
① By positioning the convexity of the socket sides to the header concavity, align the centers of the socket and the header in pitch direction.



② Slightly press the socket down at cable side to tilted angle.



③ Press down at the lever side with stabilizing the cable side to insert. Mating completes.

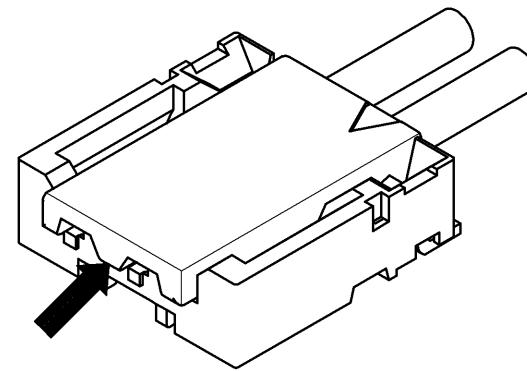


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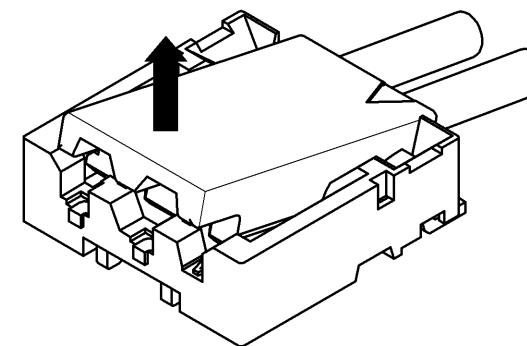
B

Unmating

① Hook the lever with finger nail.



② Lift up to the upper direction and friction lock is released.



③ Lift up to the upper direction and positive lock is released. Removal completes.

