APPLICABLE STANDARD				
RATING	OPERATING TEMPERATURE RANGE	-45 °C TO +125 °C(NOTES 1)	STORAGE TEMPERATURE RANGE	-10 °C TO + 60 °C(NOTES 2)
	VOLTAGE	50 V AC	APPLICABLE CONNECTOR	DF12#(3.0)-*DS-0.5V(81) DF12#(3.0)-*DS-0.5V(86)
	CURRENT	0.3 A		

SPECIFICATIONS

ITEM	TEST METHOD	REQUIREMENTS	QT	AT
CONSTRUCTION				
GENERAL EXAMINATION	VISUALLY AND BY MEASURING INSTRUMENT.	ACCORDING TO DRAWING.	X	X
MARKING	CONFIRMED VISUALLY.		X	X
ELECTRIC CHARACTERISTICS				
CONTACT RESISTANCE	100 m A (DC OR 1000 Hz).	50 mΩ MAX.	X	—
INSULATION RESISTANCE	100 V DC	500 MΩ MAX.	X	—
VOLTAGE PROOF	150 V AC FOR 1 min.	NO FLASHOVER OR BREAKDOWN.	X	—
MECHANICAL CHARACTERISTICS				
INSERTION AND WITHDRAWAL FORCES	MEASURED BY APPLICABLE CONNECTOR.	SIGNAL / INSERTION FORCE (N)MAX / WITHDRAWAL FORCE (N)MIN 10: 19.8 / 1.5 14: 21.3 / 2.1 20: 23.4 / 2.6 30: 27.0 / 3.4 32: 27.6 / 3.6 36: 29.0 / 4.0 40: 30.6 / 4.2 50: 34.2 / 5.0 60: 38.0 / 6.0 80: 45.0 / 7.4	X	—
MECHANICAL OPERATION	50 TIMES INSERTIONS AND EXTRACTIONS.	① CONTACT RESISTANCE: 50 mΩ MAX. ② NO DAMAGE, CRACK OR LOOSENESS OF PARTS.	X	—
VIBRATION	FREQUENCY 10 TO 55 Hz, SINGLE AMPLITUDE 0.75 mm, AT 2 h, FOR 3 DIRECTIONS.	① NO ELECTRICAL DISCONTINUITY OF 1 μs. ② NO DAMAGE, CRACK OR LOOSENESS OF PARTS.	X	—
SHOCK	490 m/s^2 DURATION OF PULSE 11 ms AT 3 TIMES FOR 3 DIRECTIONS.	① NO ELECTRICAL DISCONTINUITY OF 1 μs. ② NO DAMAGE, CRACK OR LOOSENESS OF PARTS.	X	—
ENVIRONMENTAL CHARACTERISTICS				
RAPID CHANGE OF TEMPERATURE	TEMPERATURE -65 →15 TO 35 → 125 → 15 TO 35 °C TIME 30 → 10 TO 15 → 30 → 10 TO 15 min UNDER 5 CYCLES.	① CONTACT RESISTANCE: 50 mΩ MAX. ② INSULATION RESISTANCE: 500 MΩ MIN. ③ NO DAMAGE, CRACK OR LOOSENESS OF PARTS.	X	—
DAMP HEAT (STEADY STATE)	EXPOSED AT 40 ± 2 °C, 90 TO 95 %, 96 h.	① CONTACT RESISTANCE: 50 mΩ MAX. ② INSULATION RESISTANCE: 500 MΩ MIN. ③ NO DAMAGE, CRACK OR LOOSENESS OF PARTS.	X	—
CORROSION SALT MIST	EXPOSED IN 5% SALT WATER SPRAY FOR 48 h.	① CONTACT RESISTANCE: 50 mΩ MAX. ② NO HEAVY CORROSION.	X	—
SULPHUR DIOXIDE	EXPOSED IN 10 PPM FOR 96 h. (TEST STANDARD:JEIDA-39)	① CONTACT RESISTANCE: 50 mΩ MAX. ② NO HEAVY CORROSION.	X	—
HEAT RESISTANCE OF SOLDERING	【RECOMMENDED TEMPERATURE PROFILE】 《SOLDERING AREA》 MAX250℃, 220℃ FOR 60 SECONDS MAX. 《PREHEATING AREA》 150 TO 180℃ 90～120 SECONDS. MAXIMUM TWICE ACTION IS ALLOWED UNDER THE SAME CONDITION. 【RECOMMENDED MANUAL SOLDELING CONDITION 】 SOLDERING IRON TEMPERATURE 350℃ SOLDERING TIME : WITHIN 3 SECONDS.	NO DEFORMATION OF CASE OF EXCESSIVE LOOSENESS OF THE TERMINALS.	X	—

REMARKS
NOTE1:INCLUDING THE TEMPERATURE RISE BY CURRENT.
NOTE2:STORAGEIS DEFINED AS LONG-TERM STORAGE OF UNUSED PRODUCTS.
APPLY OPERATION TEMPERATURE RANGE TO PRODUCTS MOUNTED ON PCB WITHOUT POWER SUPLLY.
UNLESS OTHERWISE SPECIFIED , REFER TO JIS C 5402 .

	COUNT	DESCRIPTION OF REVISIONS	DESIGNED	CHECKED	DATE
△0					

APPROVED	MO.NAKAMURA	06.01.30
CHECKED	TS.MIYAZAKI	06.01.27
DESIGNED	YH.MICHIDA	06.01.27
DRAWN	HK.MURAKAMI	06.01.27

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

DRAWING NO. ELC4-163508-09

HRS

SPECIFICATION SHEET

HIROSE ELECTRIC CO., LTD.

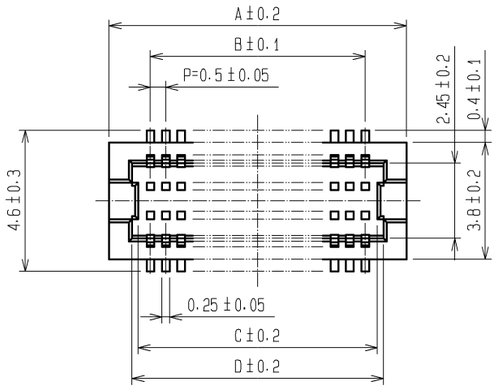
PART NO. DF12D(3.0)-*DP-0.5V(81)

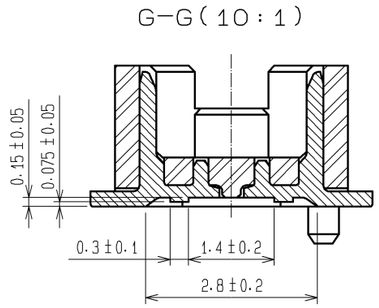
CODE NO. CL537 △0 1/1

FORM HD0011-2-1

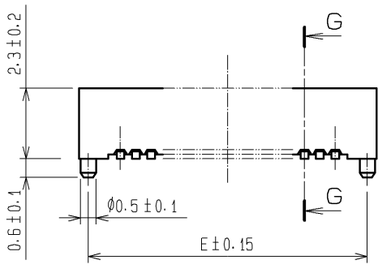
DRAWING FOR REFERENCE:This is subject to change without notice

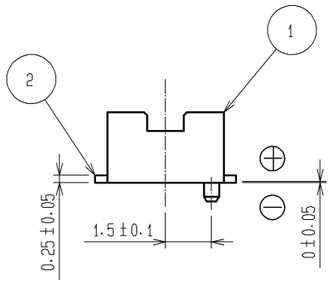
2015/09/21 18:56:09(JST) Tim Tian

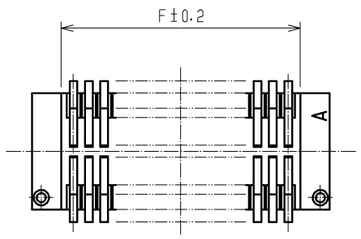


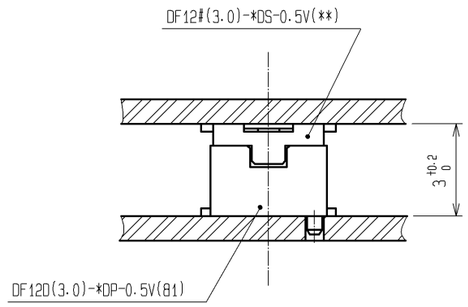


CODE No.	CONTACT	A	B	C	D	E	F
CL537-0791-5-81	10	4.7	2.0	2.8	3.2	4.1	2.8
CL537-0920-6-81	14	5.7	3.0	3.8	4.2	5.1	3.8
CL537-0793-0-81	20	7.2	4.5	5.3	5.7	6.6	5.3
CL537-0795-6-81	30	9.7	7.0	7.8	8.2	9.1	7.8
CL537-0802-0-81	32	10.2	7.5	8.3	8.7	9.6	8.3
CL537-0796-9-81	36	11.2	8.5	9.3	9.7	10.6	9.3
CL537-0797-1-81	40	12.2	9.5	10.3	10.7	11.6	10.3
CL537-0799-7-81	50	14.7	12.0	12.8	13.2	14.1	12.8
CL537-0801-7-81	60	17.2	14.5	15.3	15.7	16.6	15.3
CL537-0803-2-81	80	22.2	19.5	20.3	20.7	21.6	20.3

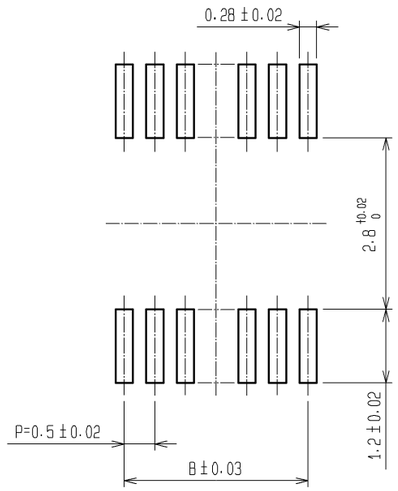




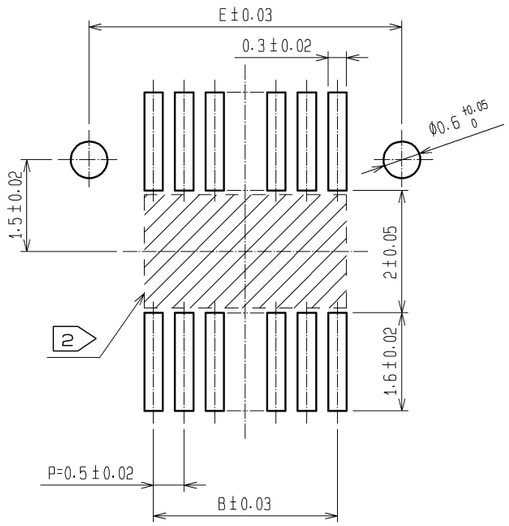




RECOMMEND METAL MASK PATTERN (10:1)



RECOMMENDED LAND PATTERN (10:1)



RECOMMENDED THICKNESS OF METAL MASK : 120 μm

RECOMMENDED THICKNESS OF SOLDER PASTE : 120 μm

NOTES 1 LEAD CO-PLANARITY SHALL BE 0.08 mm MAX.

2 IF THERE IS PATTERN ON ▨ PART, THERE IS A POSSIBILITY THAT IT WILL MAKE CONTACT WITH THE LEADS.

NO.	MATERIAL	FINISH , REMARKS	NO.	MATERIAL	FINISH , REMARKS
2	PHOSPHOR BRONZE	CONTACT AREA:GOLD PLATED 0.2μm min LEAD AREA:GOLD PLATED 0.015μm min OTHERS(UNDER PLATING):NICKEL PLATED 2μm min	6	PS	CLEAR (REINFORCEMENT COLLAR)
			5	PS	BLACK (PLASTIC REEL)
			4	POLYESTER	CLEAR (COVER TAPE)
1	POLYAMIDE	UL94V-0, NATURAL(BEIGE)	3	PS	CLEAR (EMBOSSED CARRIER TAPE)

UNITS	SCALE	COUNT	DESCRIPTION OF REVISIONS	DESIGNED	CHECKED	DATE
mm	5 : 1	△				

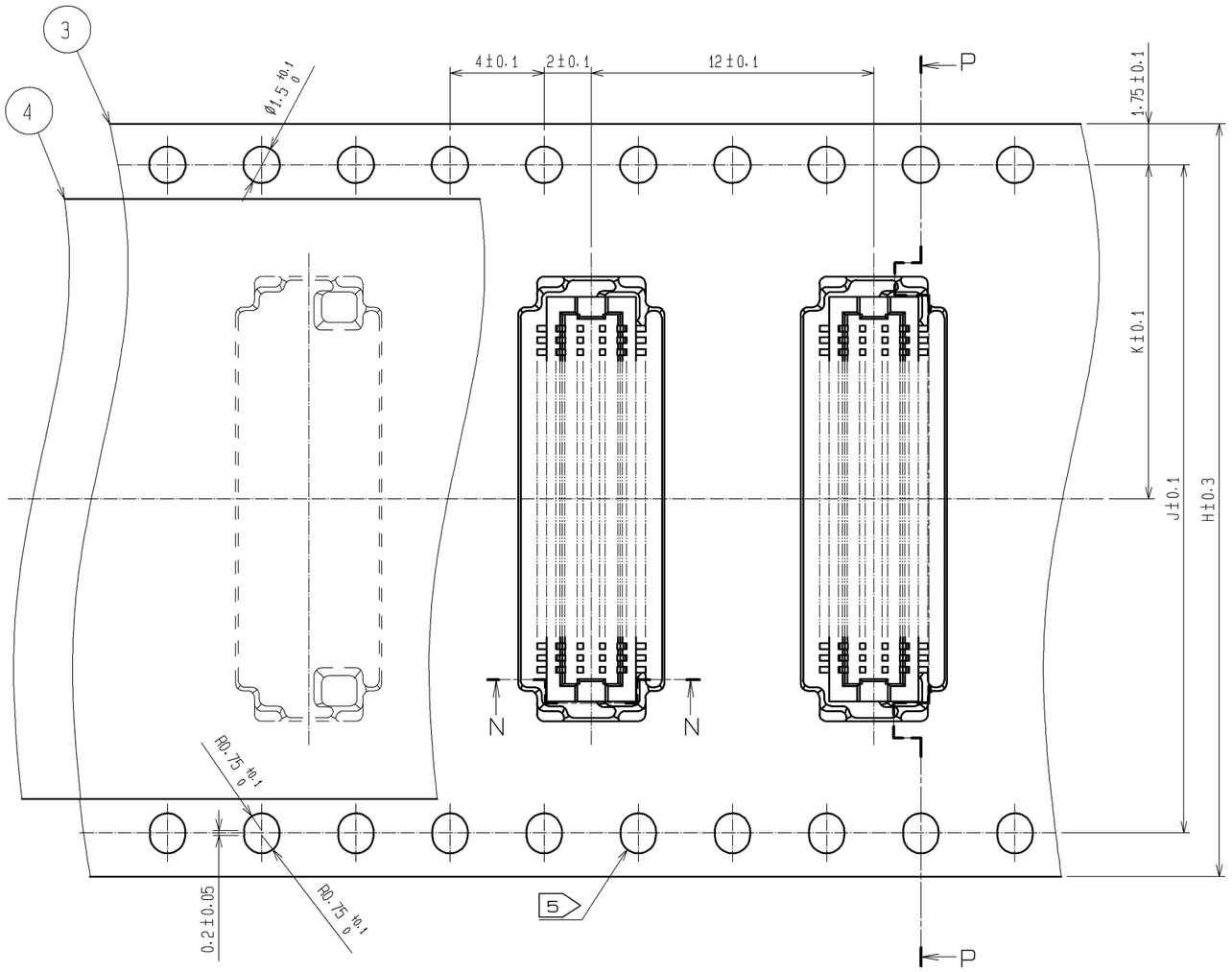
HIROSE ELECTRIC CO., LTD.

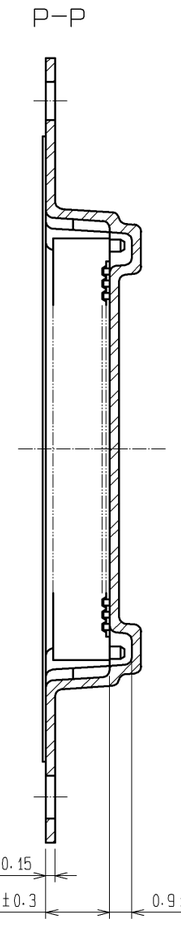
APPROVED	KH. IKEDA	13.08.19
CHECED	YH. MICHIDA	13.08.08
DESIGNED	YN. SAKAMOTO	13.08.08
DRAWN	KR. AJITO	13.08.08

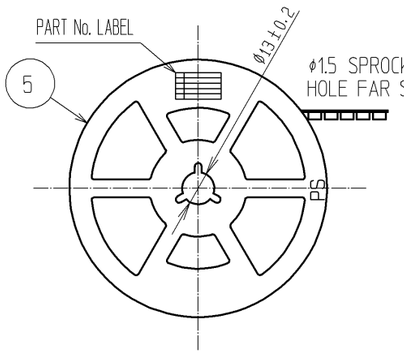
DRAWING NO.	EDC3-163508-77
PART NO.	DF12D(3.0)-*DP-0.5V(81)
CODE NO.	CL537

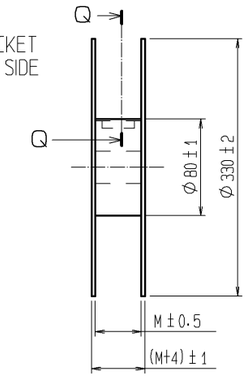
△ 1/2

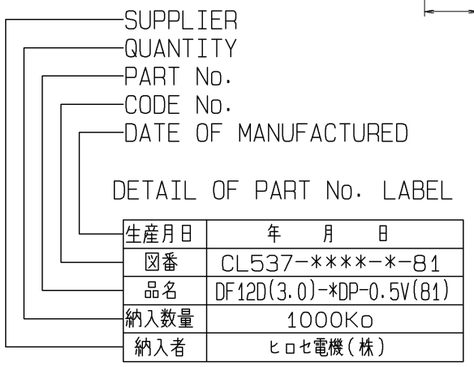
STYLE AND DIMENTION OF REEL (FREE)









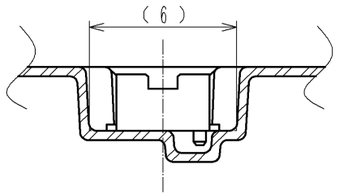


DETAIL OF PART No. LABEL

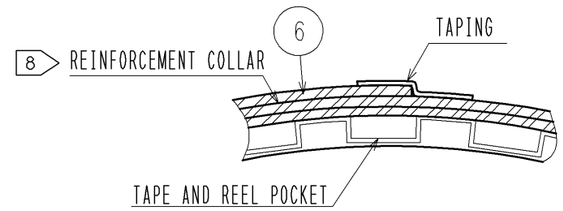
生産月日	年　月　日
図番	CL537-****-*-81
品名	DF12D(3.0)-*DP-0.5V(81)
納入数量	1000Ko
納入者	ヒロセ電機(株)

DIRECTION OF UNREELING

N–N



Q–Q(FREE)



CODE No.	CONTACT	H	J	K	L	M
CL537-0791-5-81	10	16	-	7.5	0.30	17.5
CL537-0920-6-81	14	16	-	7.5	0.30	17.5
CL537-0793-0-81	20	16	-	7.5	0.38	17.5
CL537-0795-6-81	30	24	-	11.5	0.38	25.5
CL537-0802-0-81	32	24	-	11.5	0.30	25.5
CL537-0796-9-81	36	24	-	11.5	0.38	25.5
CL537-0797-1-81	40	24	-	11.5	0.38	25.5
CL537-0799-7-81	50	24	-	11.5	0.38	25.5
CL537-0801-7-81	60	32	28.4	14.2	0.38	33.5
CL537-0803-2-81	80	44	40.4	20.2	0.38	45.5

NOTES 3　1 REEL 1000 CONNECTORS.
4　AT THE BEGINNING OF THE REEL, 30 COMPONENTS SHALL BE EMPTY.
AT THE END OF THE REEL, 20 COMPONENTS SHALL BE EMPTY.
5　WHEN THE TAPE WIDTH IS 32 mm OR 44mm, SPROCKET HOLES SHALL BE SET ON BOTH SIDE OF REEL AS SHOWN ON THIS DRAWING.
6　PEEL FORCE REFERS TO JIS C 0806.(IEC 60286-3)
7　THE REEL IS PACKED WITH A POLYETHYLENE MATERIAL, TOGETHER WITH A DRYING AGENT.
8　AFTER PACKING, ROLL 2 METERS OF THE REINFORCEMENT COLLAR TO OUTER CIRCUMFERENCE OF TAPE AND REEL POCKET, AND TAPE DOWN AT THE END THE COLLAR.

DRAWING NO.	EDC3-163508-77
PART NO.	DF12D(3.0)-*DP-0.5V(81)
CODE NO.	CL537

△ 2/2