

参考図：ご確認用。正式には別途納入仕様書をご請求願います。

APPLICABLE STANDARD					
RATING	OPERATING TEMPERATURE RANGE	-40 °C TO 85 °C	STORAGE TEMPERATURE RANGE	-10 °C TO 50 °C (PACKED CONDITION)	
	VOLTAGE	50 V AC / DC	OPERATING OR STORAGE HUMIDITY RANGE	RELATIVE HUMIDITY 90 % MAX (NOT DEWED)	
	CURRENT	0.5 A (note)	APPLICABLE CABLE	t=0.3±0.05mm, GOLD PLATING	
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	AC 20 mV MAX ( 1 KHz ), 1 mA .		50 mΩ MAX. INCLUDING FPC, FFC BULK RESISTANCE (L=8mm)	X	X
INSULATION RESISTANCE	100 V DC.		500 MΩ MIN.	X	X
VOLTAGE PROOF	150 V AC FOR 1 min.		NO FLASHOVER OR BREAKDOWN.	X	X
MECHANICAL CHARACTERISTICS					
MECHANICAL OPERATION	20 TIMES INSERTIONS AND EXTRACTIONS.		① CONTACT RESISTANCE: 50 mΩ MAX. ② NO DAMAGE, CRACK AND LOOSENESS OF PARTS.	X	-
VIBRATION	FREQUENCY 10 TO 55 Hz, HALF AMPLITUDE 0.75 mm, - m/s <sup>2</sup> FOR 10 CYCLES IN 3 DIRECTIONS.		① NO ELECTRICAL DISCONTINUITY OF 1 μs. ② CONTACT RESISTANCE: 50 mΩ MAX. ③ NO DAMAGE, CRACK AND LOOSENESS OF PARTS.	X	-
SHOCK	981 m/s <sup>2</sup> , DURATION OF PULSE 6 ms AT 3 TIMES IN 3 DIRECTIONS.				
FPC RETENSION FORCE	MEASURED BY APPLICABLE FPC. (THICKNESS OF FPC SHALL BE t=0.30mm AT INITIAL CONDITION.)		DIRECTION OF INSERTION: 0.4N × n MIN. (n:NUMBER OF CONTACTS)	X	-
ENVIRONMENTAL CHARACTERISTICS					
RAPID CHANGE OF TEMPERATURE	TEMPERATURE -40 → +15 TO +35 → +85 → +15 TO +35 °C TIME 30 → 2~3 → 30 → 2~3 min UNDER 5 CYCLES.		① CONTACT RESISTANCE: 50 mΩ MAX. ② INSULATION RESISTANCE: 50 MΩ MIN. ③ NO DAMAGE, CRACK AND LOOSENESS OF PARTS.	X	-
DAMP HEAT (STEADY STATE)	EXPOSED AT 40 ± 2 °C, RELATIVE HUMIDITY 90 TO 95 %, 96 h.			X	-
DAMP HEAT, CYCLIC	EXPOSED AT -10 TO +65 °C, RELATIVE HUMIDITY 90 TO 96 %, 10 CYCLES, TOTAL 240 h.		① CONTACT RESISTANCE: 50 mΩ MAX. ② INSULATION RESISTANCE: 1 MΩ MIN. (AT HIGH HUMIDITY) ③ INSULATION RESISTANCE: 50 MΩ MIN. (AT DRY) ④ NO DAMAGE, CRACK AND LOOSENESS OF PARTS.	X	-
DRY HEAT	EXPOSED AT 85 ± 2 °C, 96 h.		① CONTACT RESISTANCE: 50 mΩ MAX.	X	-
COLD	EXPOSED AT -40 ± 3 °C, 96 h.		② NO DAMAGE, CRACK AND LOOSENESS OF PARTS.	X	-
CORROSION SALT MIST	EXPOSED AT 35 ± 2 °C, 5 % SALT WATER SPRAY FOR 96 h.		① CONTACT RESISTANCE: 50 mΩ MAX. ② NO EVIDENCE OF CORROSION WHICH AFFECTS TO OPERATION OF CONNECTOR.	X	-
SURPHUR DIOXIDE [JIS C 0090]	EXPOSED AT 40 ± 2 °C, RELATIVE HUMIDITY 80 ± 5 %, 25 ± 5 PPM FOR 96 h.			X	-
HYDROGEN SULPHIDE [JIS C 0092]	EXPOSED AT 40 ± 2 °C, RELATIVE HUMIDITY 80 ± 5 %, 10 ~ 15 PPM FOR 96 h.			X	-
	COUNT	DESCRIPTION OF REVISIONS	DESIGNED	CHECKED	DATE
0					
REMARK			APPROVED	R.I. TAKAYASU	05.03.26
			CHECKED	R.I. TAKAYASU	05.03.26
			DESIGNED	HH. TSUKUMO	05.03.25
Unless otherwise specified, refer to JIS C 5402.			DRAWN	KK. FURUKAWA	05.03.25
Note QT:Qualification Test AT:Assurance Test X:Applicable Test			DRAWING NO.		ELC4-155705-01
<b>HRS</b>	SPECIFICATION SHEET		PART NO.	FH28D-30S-0.5SH(05)	
	HIROSE ELECTRIC CO., LTD.		CODE NO.	CL586-1827-6-05	▲ 1/2

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## SPECIFICATIONS

ITEM	TEST METHOD	REQUIREMENTS	QT	AT
RESISTANCE TO SOLDERING HEAT	1) REFLOW SOLDERING (MAX 2 CYCLES) PEAK TMP. 250 °C MAX . REFLOW TMP. 230 °C MIN FOR 60 sec. PRE-HEAT 150~200°C FOR 90~120 sec. 2) SOLDERING IRONS : TMP. 350 ± 10°C FOR 5 ± 1 sec .	NO DEFORMATION OF CASE OF EXCESSIVE LOOSENESS OF THE TERMINALS.	x	—
SOLDERABILITY	SOLDERED AT SOLDER TEMPERATURE, 235 ± 5 °C FOR IMMERSION DURATION, 2 ± 0.5 sec.	A NEW UNIFORM COATING OF SOLDER SHALL COVER A MINIMUM OF 95 % OF THE SURFACE BEING IMMersed.	x	—

**(note)**

WHEN THE SAME VALUE OF CURRENT ARE APPLIED TO ALL CONTACTS AT THE SAME TIME IN ONCE, SET THE CURRENT TO THE 70 % OF THE RATED CURRENT VALUE.

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

DRAWING NO.

ELC4-155705-01



SPECIFICATION SHEET

PART NO.

FH28D-30S-0. 5SH (05)

HIROSE ELECTRIC CO., LTD.

CODE NO

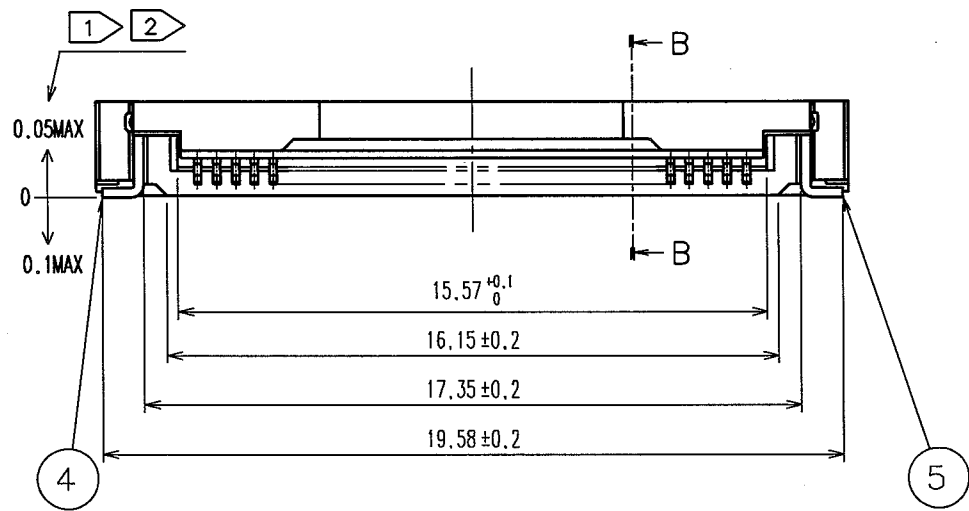
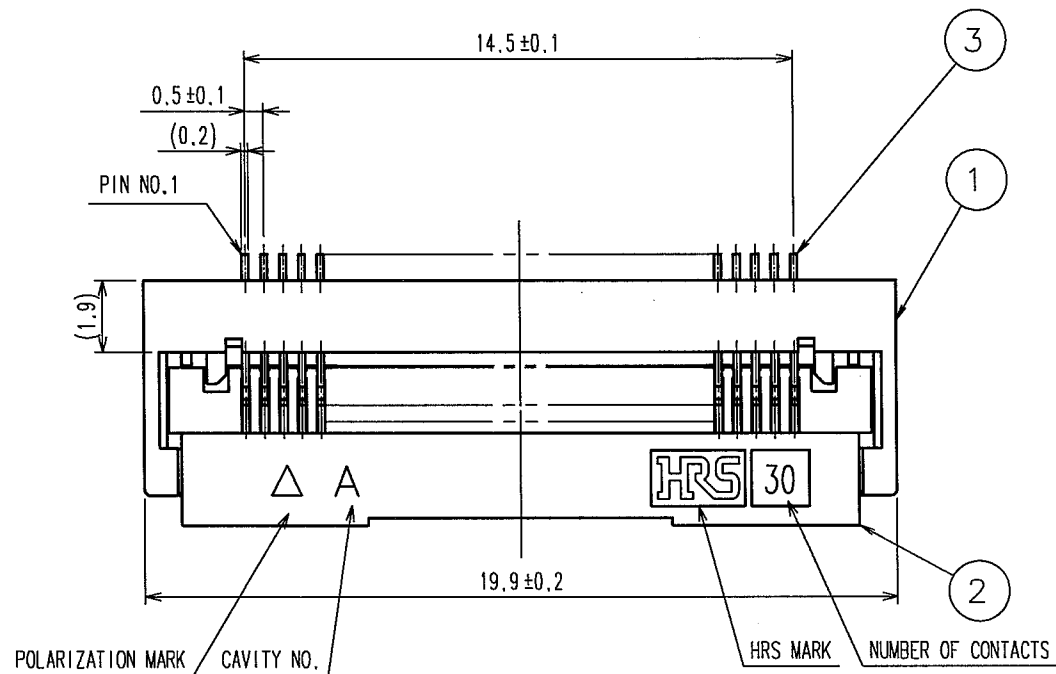
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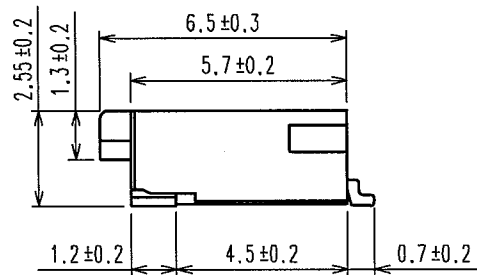
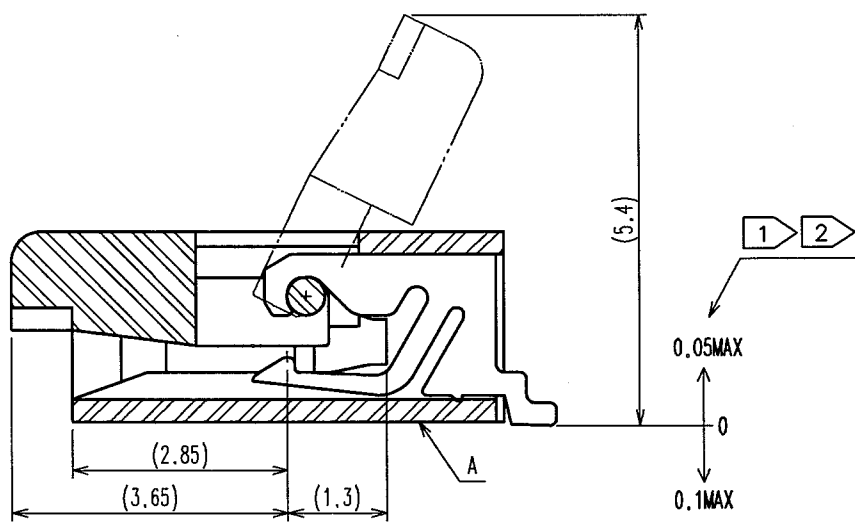
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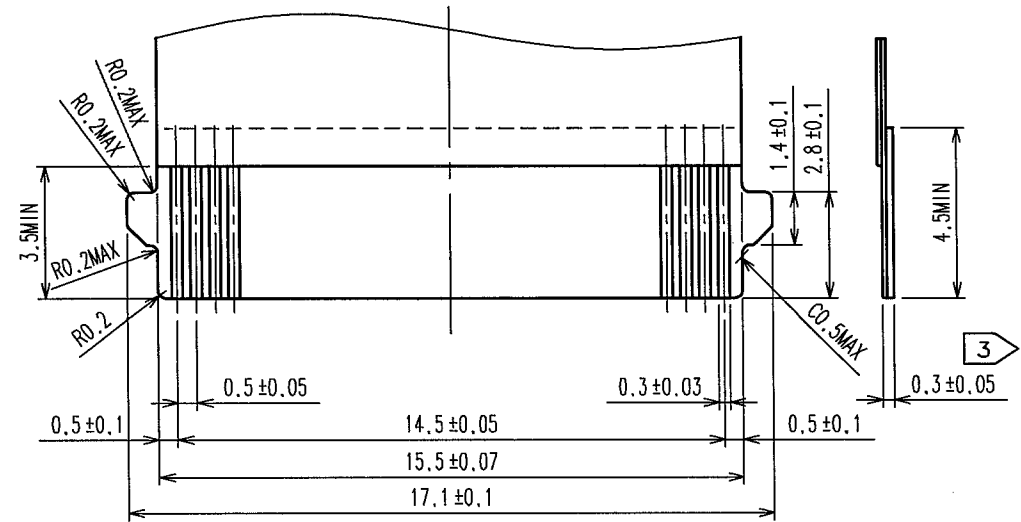


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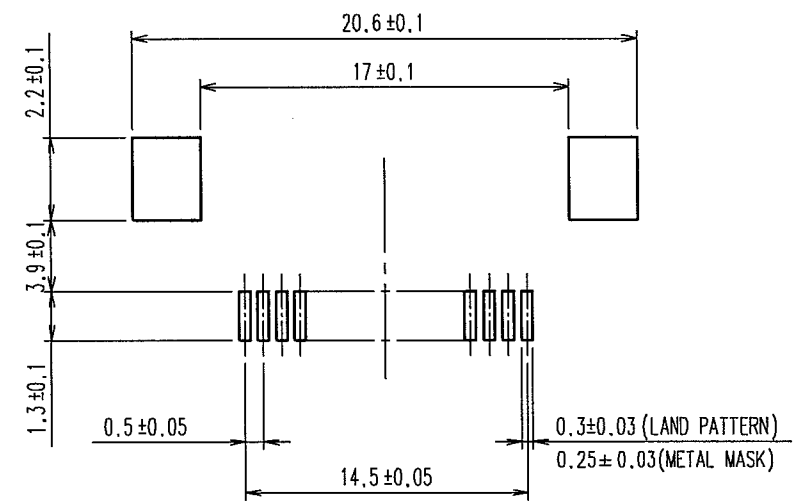


COUNT	DESCRIPTION OF REVISIONS	BY	CHKD	DATE	COUNT	DESCRIPTION OF REVISIONS	BY	CHKD	DATE
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RECOMMENDED FPC (FREE)



RECOMMENDED LAND PATTERN, METAL MASK(FREE)



RECOMMENDED METAL MASK THICKNESS:  $t = 0.15$

- NOTE
- 1 REFERENCE IS A.
  - 2 LEAD CO-PLANARITY SHALL BE 0.1 MAX.
  - 3 THICKNESS OF SUPPORTING TAPE SHALL BE 0.188(7.5mil) MIN.

2	LCP	(BLACK)	UL94V-0	5	BRASS	TIN PLATING 1μm MIN. OVER NICKEL 1μm MIN.	
1	LCP	(GRAY)	UL94V-0	4	BRASS	TIN PLATING 1μm MIN. OVER NICKEL 1μm MIN.	
				3	PHOSPHOR BRONZE	GOLD PLATING FLASH OVER NICKEL 1μm MIN.	
NO.	MATERIAL	FINISH, REMARKS	NO.	MATERIAL	FINISH, REMARKS		
CODE NO: (OLD) CL			DRAWN	DESIGNED	CHECKED	APPROVED	RELEASED
			K.FURUKAWA	H.TSUKUMO	R. Takayan	R. Takayan	
			05.03.25	05.03.25	05.03.26	05.03.26	
DRAWING NO. EDC3-155705-01			PART NO. FH28D-30S-0.5SH(05)				
SCALE 5 : 1			CODE NO. CL586-1827-6-05				
UNITS mm			HRS HIROSE ELECTRIC CO., LTD				

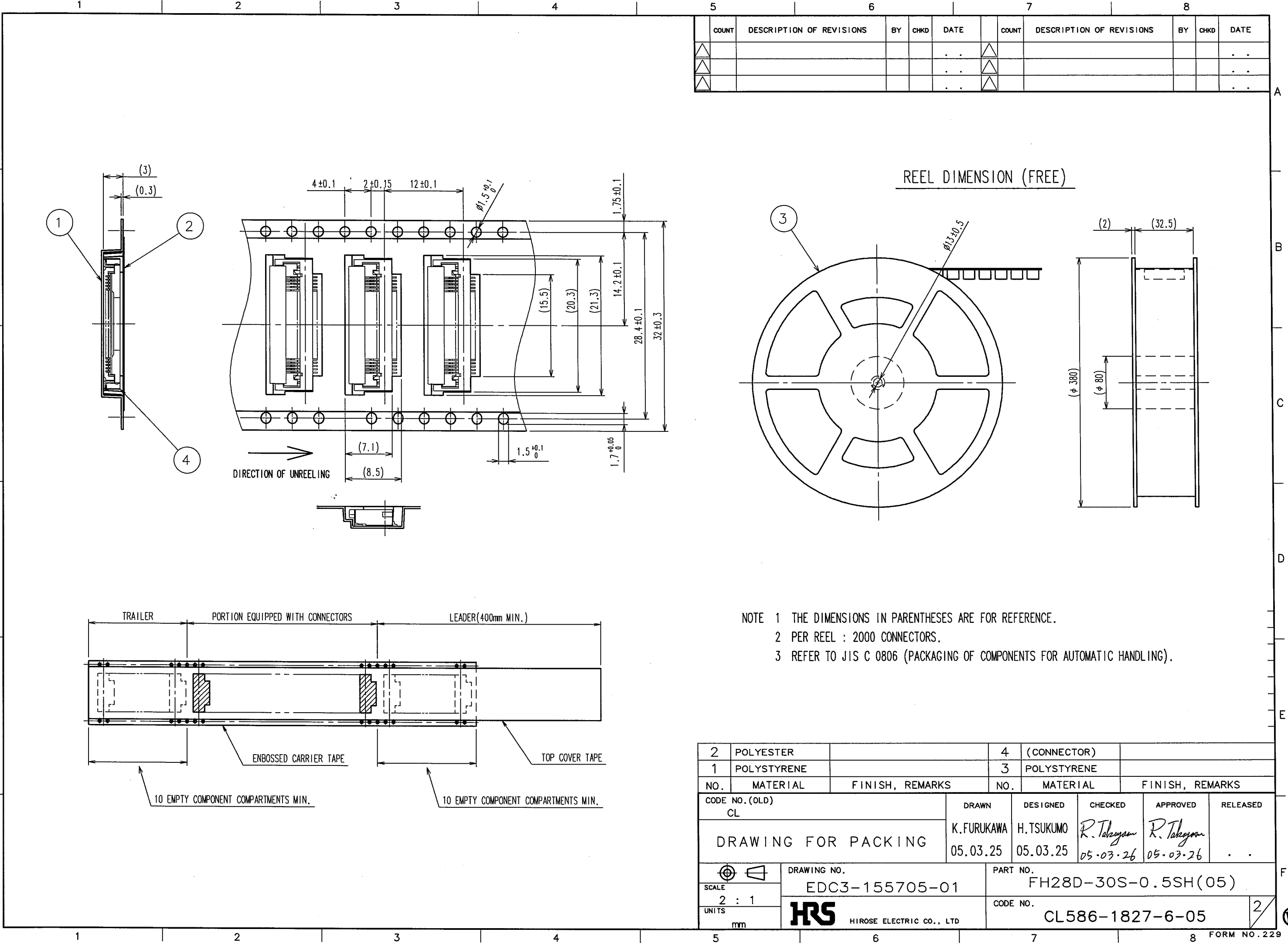
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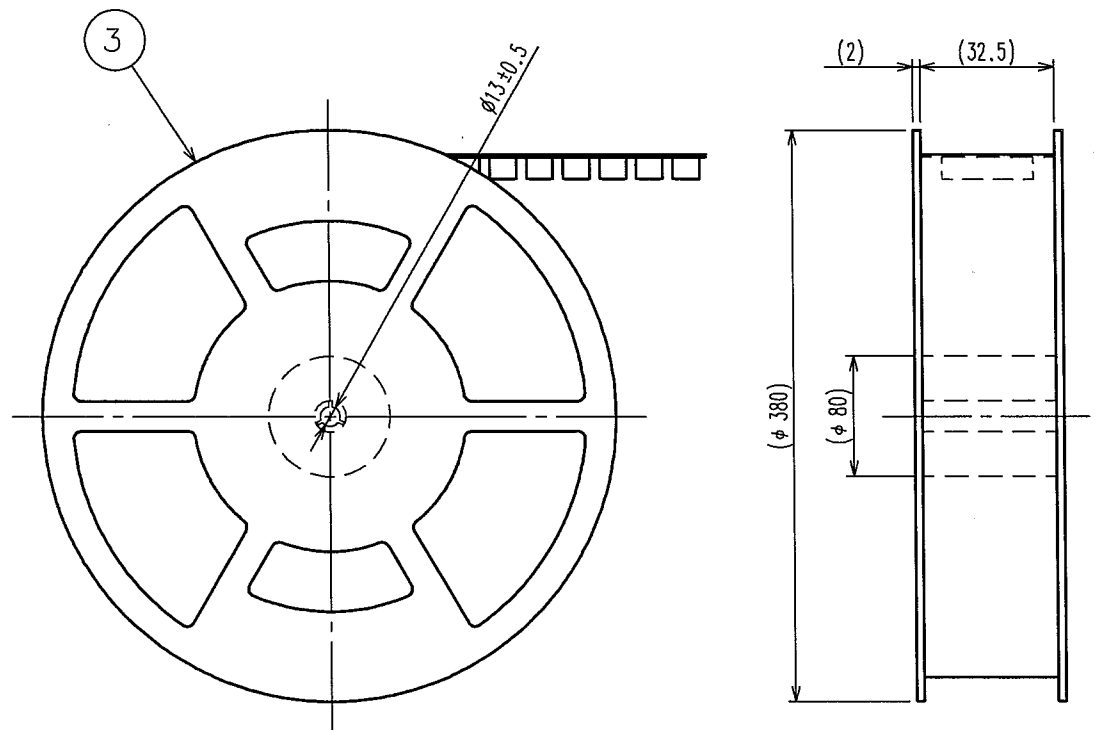
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TO  
NC



COUNT	DESCRIPTION OF REVISIONS	BY	CHKD	DATE	COUNT	DESCRIPTION OF REVISIONS	BY	CHKD	DATE

REEL DIMENSION (FREE)



NOTE 1 THE DIMENSIONS IN PARENTHESES ARE FOR REFERENCE.  
 2 PER REEL : 2000 CONNECTORS.  
 3 REFER TO JIS C 0806 (PACKAGING OF COMPONENTS FOR AUTOMATIC HANDLING).

2	POLYESTER		4	(CONNECTOR)	
1	POLYSTYRENE		3	POLYSTYRENE	
NO.	MATERIAL	FINISH, REMARKS	NO.	MATERIAL	FINISH, REMARKS
CODE NO. (OLD) CL		DRAWN K.FURUKAWA 05.03.25	DESIGNED H.TSUKUMO 05.03.25	CHECKED R. Takayan 05.03.26	APPROVED R. Takayan 05.03.26
DRAWING NO. EDC3-155705-01			PART NO. FH28D-30S-0.5SH(05)		
SCALE 2 : 1			CODE NO. CL586-1827-6-05		
UNITS mm			HRS HIROSE ELECTRIC CO., LTD		

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