

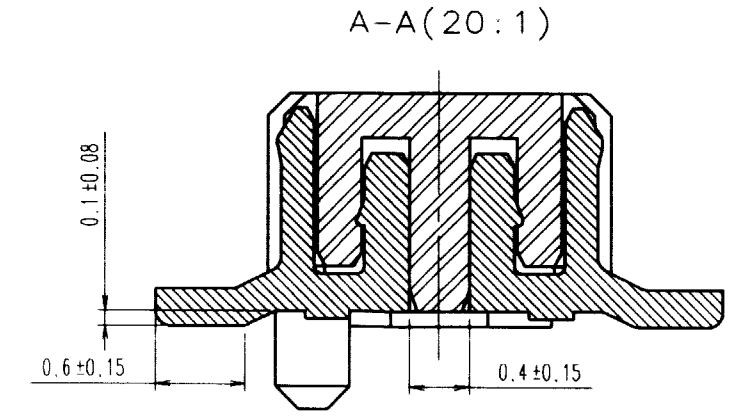
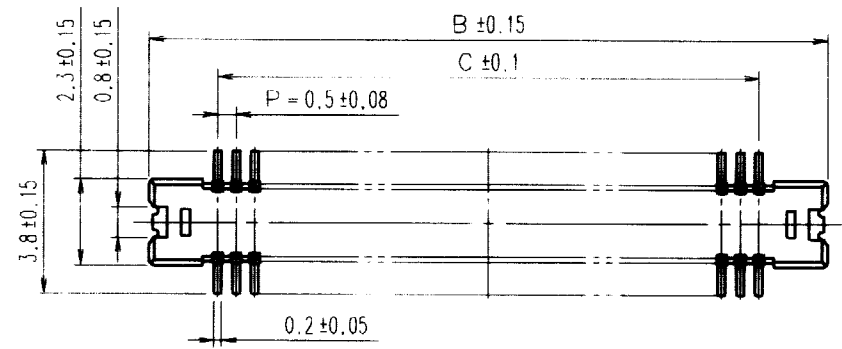
2005/07/11 10:46:31 MAKI, MIZUNO

DRAWING FOR REFERENCE: This is subject to change without notice

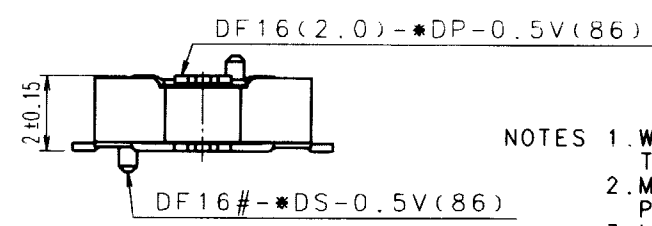
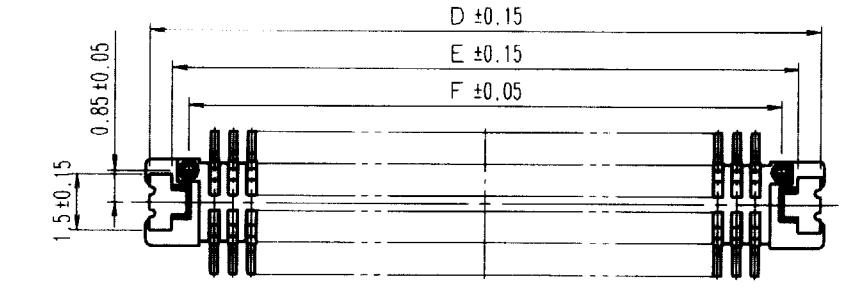
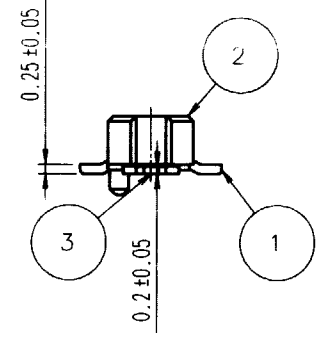
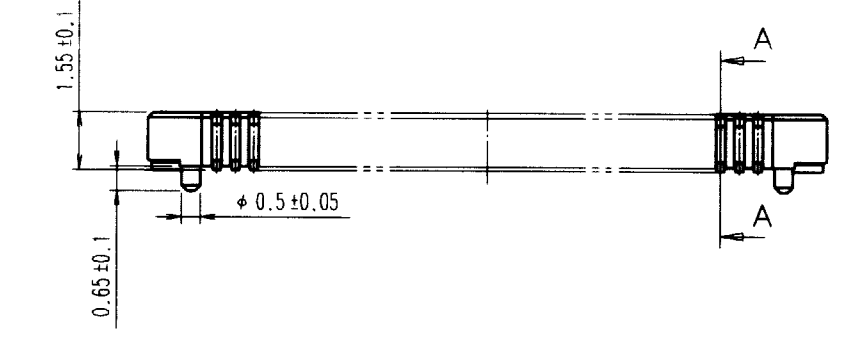
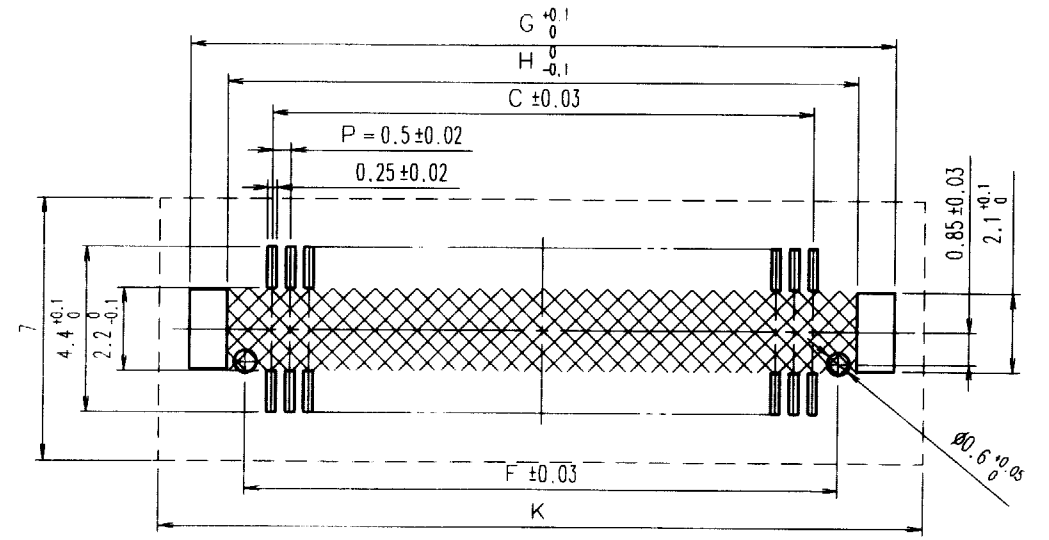
TO

COUNT	DESCRIPTION OF REVISIONS	BY	CHKD	DATE	COUNT	DESCRIPTION OF REVISIONS	BY	CHKD	DATE
△					△				
△					△				
<b>APPLICABLE STANDARD</b>									
RATING	OPERATING TEMPERATURE RANGE	-35 °C TO +85 °C(NOTE 1)			STORAGE TEMPERATURE RANGE	-10°C TO +60 °C			
	VOLTAGE	50V AC			OPERATING HUMIDITY RANGE	-----			
	CURRENT	0.3 A			APPLICABLE CABLE	DF16#-※DS-0.5V(86)			
<b>SPECIFICATIONS</b>									
ITEM		TEST METHOD			REQUIREMENTS			QT	AT
<b>CONSTRUCTION</b>									
GENERAL EXAMINATION		VISUALLY AND BY MEASURING INSTRUMENT.			ACCORDING TO DRAWING.			×	×
MARKING		CONFIRMED VISUALLY.						×	×
<b>ELECTRIC CHARACTERISTICS</b>									
CONTACT RESISTANCE		100mA (DC OR 1000 Hz).			50 mΩ MAX.			×	—
INSULATION RESISTANCE		100 V DC.			500 MΩ MIN.			×	—
VOLTAGE PROOF		150 V AC FOR 1 min.			NO FLASH OVER OR BREAKDOWN.			×	—
<b>MECHANICAL CHARACTERISTICS</b>									
MECHANICAL OPERATION		50 TIMES INSERTIONS AND EXTRACTIONS.			① CONTACT RESISTANCE: 50 mΩ MAX. ② NO DAMAGE, CRACK AND LOOSENESS, OF PARTS.			×	—
VIBRATION		FREQUENCY 10 TO 55 Hz, SINGLE AMPLITUDE 0.75mm, AT 2 h, FOR 3 DIRECTIONS.			① NO ELECTRICAL DISCONTINUITY OF 1 μs. ② NO DAMAGE, CRACK AND LOOSENESS, OF PARTS.			×	—
SHOCK		490 m/s <sup>2</sup> DIRECTIONS OF PULSE 11 ms AT 3 TIME FOR 3 DIRECTION.						×	—
<b>ENVIRONMENTAL CHARACTERISTICS</b>									
RAPID CHANGE OF TEMPERATURE		TEMPERATURE -55 →5 TO 35 →+85 →5 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: 500MΩ MIN. ③ NO DAMAGE, CRACK AND LOOSENESS, OF PARTS.			×	—
DAMP HEAT (STEADY STATE)		EXPOSED AT 40±2 °C, 90~95 %, 96 h.			① CONTACT RESISTANCE: 50 mΩ MAX. ② INSULATION RESISTANCE: 250MΩ MIN. ③ NO DAMAGE, CRACK AND LOOSENESS, OF PARTS.			×	—
CORROSION SALT MIST		EXPOSED IN 5 % SALT WATER SPRAY FOR 48 h.			① CONTACT RESISTANCE: 50 mΩ MAX. ② NO DAMAGE, CRACK AND LOOSENESS, OF PARTS.			×	—
SULPHUR DIOXIDE		EXPOSED IN 10 PPM FOR 96 h. (TEST STANDARD: JEIDA-39)						×	—
RESISTANCE TO SOLDERING HEAT		(1) REFLOW SOLDERING 《REFLOW AREA》 TWO TIMES MAX 240°C WITHIN 10 sec. MIN 220°C 10 sec TO 20 sec. 《PREHEATING AREA》 TWO TIMES 140°C TO 180 °C 30 sec. TO 125 sec. (2) MANUAL SOLDERING SOLDERING IRON TEMPERATURE 300°C FOR 3 sec. NO STRENGTH ON CONTACT.			NO DEFORMATION OF CASE OF EXCESSIVE LOOSENESS OF THE TERMINALS.			×	—
SOLDERABILITY		SOLDERING TEMPERATURE : 215±3°C DURATION OF IMMERSION : SOLDERING, FOR 3 sec.			A NEW UNIFORM COATING OF SOLDER SHALL COVER MINIMUM OF 95 % OF THE SURFACE BEING IMMERSED.			×	—
REMARKS					DRAWN	DESIGNED	CHECKED	APPROVED	RELEASED
NOTE1 INCLUDE THE TEMPERATURE RISING BY CURRENT					A.Takahashi '02.11.21	A.Takahashi '02.11.21	K.Akiyama '02.11.25	K.Katayama '02.11.25	
Unless otherwise specified, refer to JIS-C-5402.									
Note QT: Qualification Test AT: Assurance Test ×:Applicable Test									
<b>HRS</b> HIROSE ELECTRIC CO., LTD.				SPECIFICATION SHEET			PART NO. DF16(2.0)-※DP-0.5V(86)		
CODE NO.(OLD) CL		DRAWING NO. ELC4-160989-05			PEART NO CL679-				1 1

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



RECOMMENDED PATTERN



- NOTES 1. WATCH NOT LET THE CONTACTS TOUCH THE SECTION ESPECIALLY WHEN THE PADS OF THE AREA NOT RESIST FINISHED.  
 2. MOUNTING OF PARTS IS NOT PERMITTED IN AREAS INDICATED BY DIAGONAL SHADING. PARTS MOUNTED DO NOT PERMIT THE MATING WITH OTHER CONNECTOR.  
 3. LEAD CO-PLANARITY INCLUDE REINFORCED METAL FITTINGS SHALL BE 0.1mm MAX.

CONTACT	PART NO.	CODE NO.	B	C	D	E	F	G	H	K
14	DF16(2.0)-14DP-0.5V(86)	CL679-0049-7-86	6.7	3.0	6.5	5.3	4.5	7.4	5.4	9.0
16	DF16(2.0)-16DP-0.5V(86)	CL679-0041-5-86	7.2	3.5	7.0	5.8	4.9	7.9	5.9	9.5
20	DF16(2.0)-20DP-0.5V(86)	CL679-0042-8-86	8.2	4.5	8.0	6.8	5.9	8.9	6.9	10.5
30	DF16(2.0)-30DP-0.5V(86)	CL679-0043-0-86	10.7	7.0	10.5	9.3	8.4	11.4	9.4	13.0
40	DF16(2.0)-40DP-0.5V(86)	CL679-0044-3-86	13.2	9.5	13.0	11.8	10.9	13.9	11.9	15.5
50	DF16(2.0)-50DP-0.5V(86)	CL679-0045-6-86	15.7	12.0	15.5	14.3	13.4	16.4	14.4	18.0
60	DF16(2.0)-60DP-0.5V(86)	CL679-0046-9-86	18.2	14.5	18.0	16.8	15.9	18.9	16.9	20.5
80	DF16(2.0)-80DP-0.5V(86)	CL679-0048-4-86	23.2	19.5	23.0	21.8	20.9	23.9	21.9	25.5

NO.	MATERIAL	FINISH, REMARKS	NO.	MATERIAL	FINISH, REMARKS
1	BRASS	Contact area:Gold 0.1μm Min. Soldering area:Gold 0.02μm Min. Under Plating:Nickel 1μm Min.	3	BRASS	Soldering area:Tin-Copper 1μm Min. Under Plating:Nickel 1μm Min.
			2	POLYAMIDE	WHITE BEIGE .UL94V-0

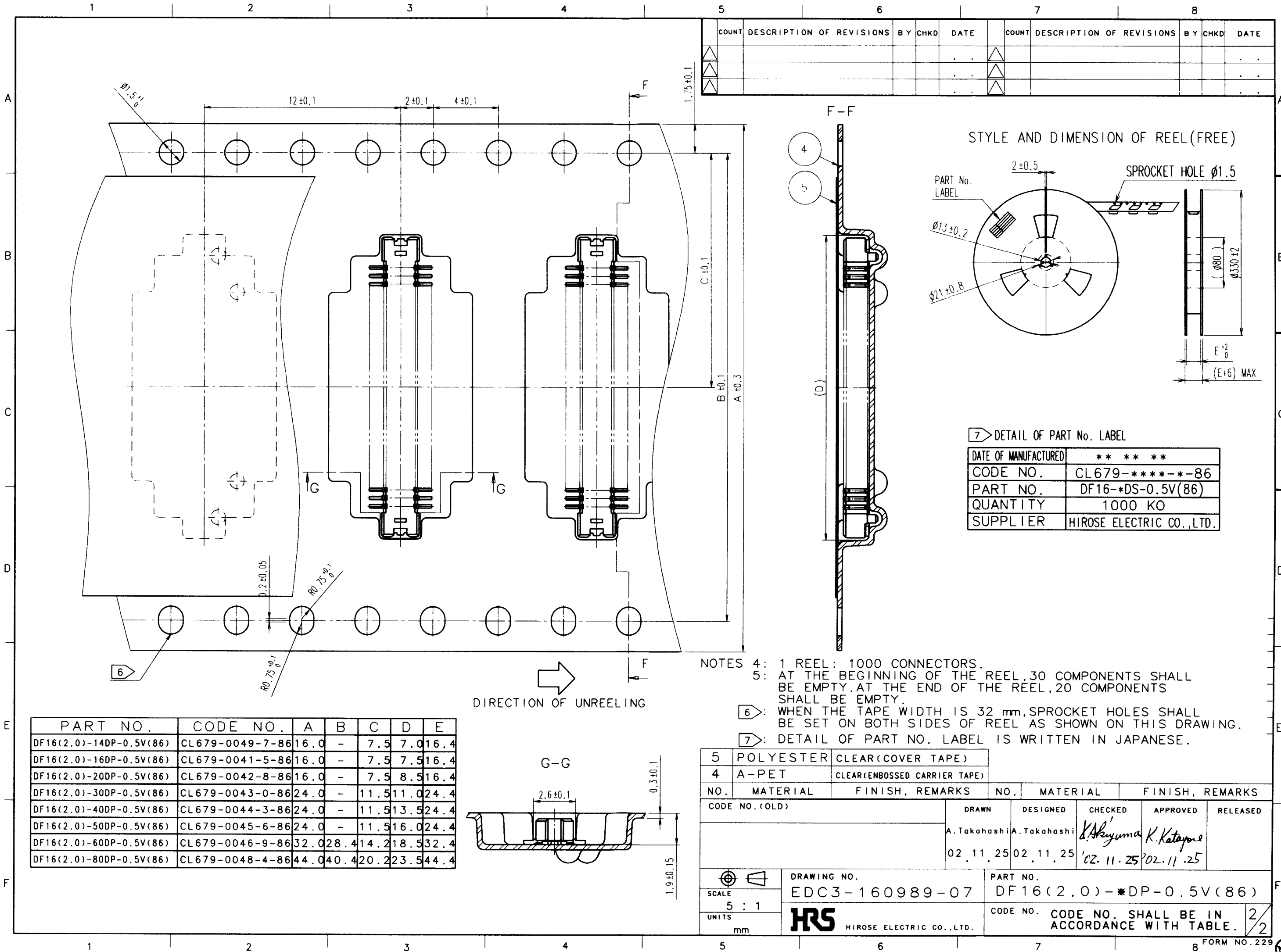
  

CODE NO. (OLD)	DRAWN	DESIGNED	CHECKED	APPROVED	RELEASED
	A.Takahashi	A.Takahashi	K.Akijama	K.Katayose	
	02.11.21	02.11.21	02.11.25	02.11.25	

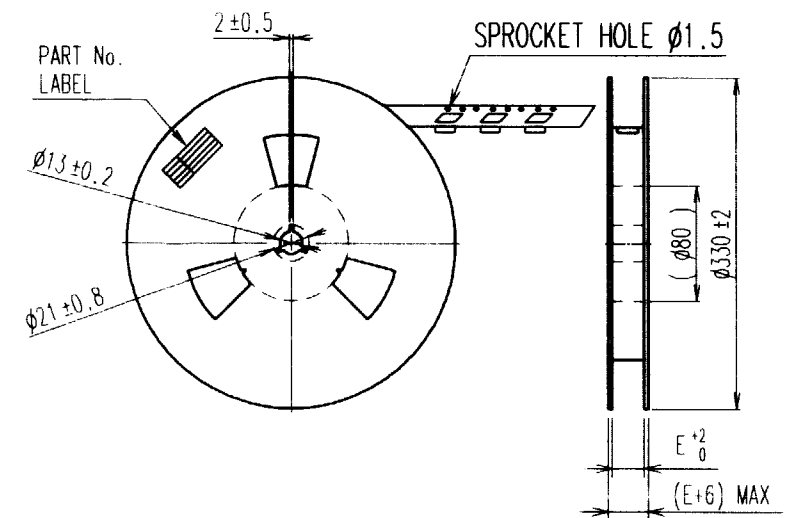
 SCALE 5 : 1 UNITS mm	DRAWING NO. EDC3-160989-07  HIROSE ELECTRIC CO.,LTD.	PART NO. DF16(2.0)-*DP-0.5V(86) CODE NO. SHALL BE IN ACCORDANCE WITH TABLE.	1/2
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TO



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

STYLE AND DIMENSION OF REEL (FREE)

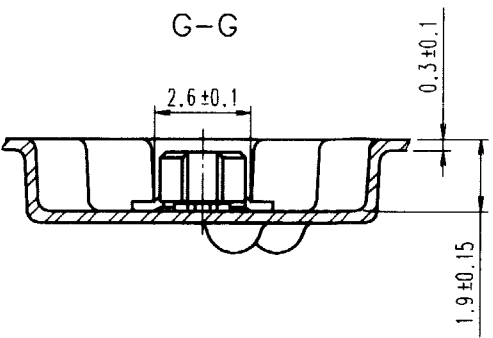


7: DETAIL OF PART No. LABEL

DATE OF MANUFACTURED	** * * * *
CODE NO.	CL679-*****-86
PART NO.	DF16-*DS-0.5V(86)
QUANTITY	1000 KO
SUPPLIER	HIROSE ELECTRIC CO.,LTD.

- NOTES
- 4: 1 REEL: 1000 CONNECTORS.
  - 5: AT THE BEGINNING OF THE REEL, 30 COMPONENTS SHALL BE EMPTY. AT THE END OF THE REEL, 20 COMPONENTS SHALL BE EMPTY.
  - 6: WHEN THE TAPE WIDTH IS 32 mm, SPROCKET HOLES SHALL BE SET ON BOTH SIDES OF REEL AS SHOWN ON THIS DRAWING.
  - 7: DETAIL OF PART NO. LABEL IS WRITTEN IN JAPANESE.

PART NO.	CODE NO.	A	B	C	D	E
DF16(2.0)-14DP-0.5V(86)	CL679-0049-7-86	16.0	-	7.5	7.0	16.4
DF16(2.0)-16DP-0.5V(86)	CL679-0041-5-86	16.0	-	7.5	7.5	16.4
DF16(2.0)-20DP-0.5V(86)	CL679-0042-8-86	16.0	-	7.5	8.5	16.4
DF16(2.0)-30DP-0.5V(86)	CL679-0043-0-86	24.0	-	11.5	11.0	24.4
DF16(2.0)-40DP-0.5V(86)	CL679-0044-3-86	24.0	-	11.5	13.5	24.4
DF16(2.0)-50DP-0.5V(86)	CL679-0045-6-86	24.0	-	11.5	16.0	24.4
DF16(2.0)-60DP-0.5V(86)	CL679-0046-9-86	32.0	28.4	14.2	18.5	32.4
DF16(2.0)-80DP-0.5V(86)	CL679-0048-4-86	44.0	40.4	20.2	23.5	44.4



NO.	MATERIAL	FINISH, REMARKS	NO.	MATERIAL	FINISH, REMARKS
5	POLYESTER	CLEAR (COVER TAPE)			
4	A-PET	CLEAR (ENBOSSED CARRIER TAPE)			

CODE NO. (OLD)	DRAWN	DESIGNED	CHECKED	APPROVED	RELEASED
	A. Takahashi	A. Takahashi	K. Aoyama	K. Katayama	
	02.11.25	02.11.25	02.11.25	02.11.25	

SCALE	DRAWING NO.	PART NO.
5 : 1	EDC3-160989-07	DF16(2.0)-*DP-0.5V(86)
UNITS	mm	CODE NO. CODE NO. SHALL BE IN ACCORDANCE WITH TABLE.
		2/2

TO