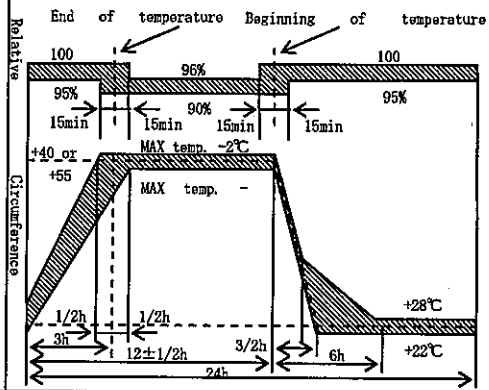
	COUNT	DESCRIPTION OF REVISIONS	BY	CHKD	DATE		COUNT	DESCRIPTION OF REVISIONS	BY	CHKD	DATE
1	1	RE-F-10211	R.T		04.11.17	3					
2						4					

APPLICABLE STANDARD	SD mini Memory Card Specifications Ver 1.02			
RATING	OPERATING TEMPERATURE RANGE	-25 °C TO +85 °C (NOTE1)	STORAGE TEMPERATURE RANGE	-40 °C TO +85 °C
	VOLTAGE	AC 125V	OPERATING HUMIDITY RANGE	95%MAXIMUM
	CURRENT	0.5A		(NON-CONDENSING)

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 MILLIVOLT LEVEL METHOD IEC60512-2-2a	OPEN VOLTAGE 20 mV AC MAX, TEST CURRENT 1mA.	INITIALLY 100 mΩ MAXIMUM (NOTE 2).	X	—
VOLTAGE PROOF IEC60512-2-4a	500 Vrms AC IS APPLIED FOR 1 MINUTE.	①NO FLASHOVER OR BREAKDOWN. ②CURRENT LEAKAGE 1mA MAXIMUM.	X	X
INSULATION RESISTANCE IEC60512-2-3a	MEASURE WITHIN 1 MINUTE AFTER APPLYING 500 V DC.	INITIALLY 1000 MΩ MINIMUM.	X	—
MECHANICAL CHARACTERISTICS				
CARD INSERTION FORCE CARD EJECTION FORCE	MEASURED BY APPLICABLE CORD AT 25mm/min.	THE INITIAL STAGE:12 N MAX. AFTER MECHANICAL OPERATION:15N MAX.	X	—
MECHANICAL OPERATION [OFFICE ENVIRONMENT] EIA364B class1.1	10000 TIMES INSERTIONS AND WITH DRAWAL SHALL BE MADE AT THE CYCLE RATE 400~600 CYCLES/h.	① CONTACT RESISTANCE: AFTER TEST 40 mΩ MAXIMUM CHANGE. (CONTACT RESISTANCE REVERSION BY INSERTION AND EXTRACTION IS AVAILABLE) ② NO MECHANICAL DAMAGE SHALL OCCUR ON THE PARTS.	X	—
VIBRATION AND HIGH FREQUENCY IEC60512-4-6d	FREQUENCY 10~55~10 Hz/min, SINGLE AMPLITUDE 0.75 mm FOR 2 h IN 3 DIRECTIONS.	① NO ELECTRICAL DISCONTINUITY OF 100 ns. ② NO MECHANICAL DAMAGE SHALL OCCUR ON THE PARTS.	X	—
SHOCK IEC60512-4-6c	ACCELERATION 490m/s² STANDARD HOLDING TIME 11 ms, SEMI-SINE WAVE FOR 3TIMES IN 3 DIRECTIONS.		X	—
ENVIRONMENTAL CHARACTERISTICS				
DAMP HEAT, CYCLIC IEC60512-6-11m	10 CYCLES (1 CYCLE=24 HOURS)WITH CONNECTORS ENGAGED. 	① CONTACT RESISTANCE: AFTER TEST 40 mΩ MAXIMUM CHANGE. ② INSULATION RESISTANCE: AFTER TEST 100 MΩ MINIMUM. ③ NO MECHANICAL DAMAGE OR HEAVY CORROSION SHALL OCCUR ON THE PARTS.	X	—

REMARKS	DRAWN	DESIGNED	CHECKED	APPROVED	RELEASED
NOTE 1:INCLUDE THE TEMPERATURE RISE BY CURRENT. NOTE 2:CONTACT RESISTANCE INCLUDES CONDUCTOR RESISTANCE. UNLESS OTHERWISE SPECIFIED, THE TEST SHOULD BE DONE UNDER TEMP. 15 - 35℃, AIR PRESSURE 86 - 106kPa, RELATIVE HUMIDITY 25 - 85%.	O. MIYAMOTO 04.04.05	O. MIYAMOTO 04.04.05	H. OZAWA 04.04.05	K. AKIYAMA 04.04.05	

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

HRS HIROSE ELECTRIC CO., LTD.	SPECIFICATION SHEET	PART NO. DM2B-DSFW-PEJ-S
CODE NO.(OLD) CL	DRAWING NO. ELC4-155009	CODE NO. CL609-0009-1

FORM No.231-1

TO

SPECIFICATIONS

ITEM	TEST METHOD	REQUIREMENTS	QT	AT
RAPID CHANGE OF TEMPERATURE IEC60512-6-11d	5 CYCLES (1 CYCLE=1 HOUR)WITH CONNECTORS ENGAGED. TEMPERATURE:-55～+85℃	① CONTACT RESISTANCE: AFTER TEST 40 mΩ MAXIMUM CHANGE. ② INSULATION RESISTANCE: AFTER TEST 100 MΩ MINIMUM. ③ NO MECHANICAL DAMAGE OR HEAVY CORROSION SHALL OCCUR ON THE PARTS.	X	—
DRY HEAT IEC60512-6-11i	EXPOSED AT 85 ℃ FOR 96 HOURS WITH CONNECTORS ENGAGED.		X	—
COLD IEC60512-6-11j	EXPOSED AT –25 ℃ FOR 96 HOURS WITH CONNECTORS ENGAGED.		X	—
DAMP HEAT, STEADY STATE IEC60512-6-11c	EXPOSED AT 40 ℃,90 TO 95 % RH, 96 HOURS WITH CONNECTORS ENGAGED.		X	—
HYDROGEN SULFIDE JEIDA 38	EXPOSED IN 3 PPM HYDROGEN SULFIDE , APPROX. 40℃ ,80% RH,96 HOURS, WITH CONNECTORS ENGAGED.		X	—

REMARKS

UNLESS OTHERWISE SPECIFIED, THE TEST SHOULD BE DONE UNDER TEMP. 15 - 35℃, AIR PRESSURE 86 - 106kPa, RELATIVE HUMIDITY 25 - 85%.

DRAWN	DESIGNED	CHECKED	APPROVED	RELEASED
O. MIYAMOTO 04.04.05	O. MIYAMOTO 04.04.05	H. OZAWA 04.04.05	K. AKIYAMA 04.04.05	

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

HRS HIROSE ELECTRIC CO., LTD.

SPECIFICATION SHEET

PART NO. DM2B-DSFW-PEJ-S

CODE NO.(OLD)	DRAWING NO.	CODE NO.	
CL	ELC4-155009	CL609-0009-1	2/2

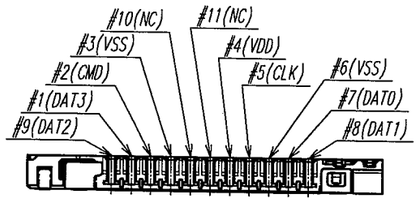
TO

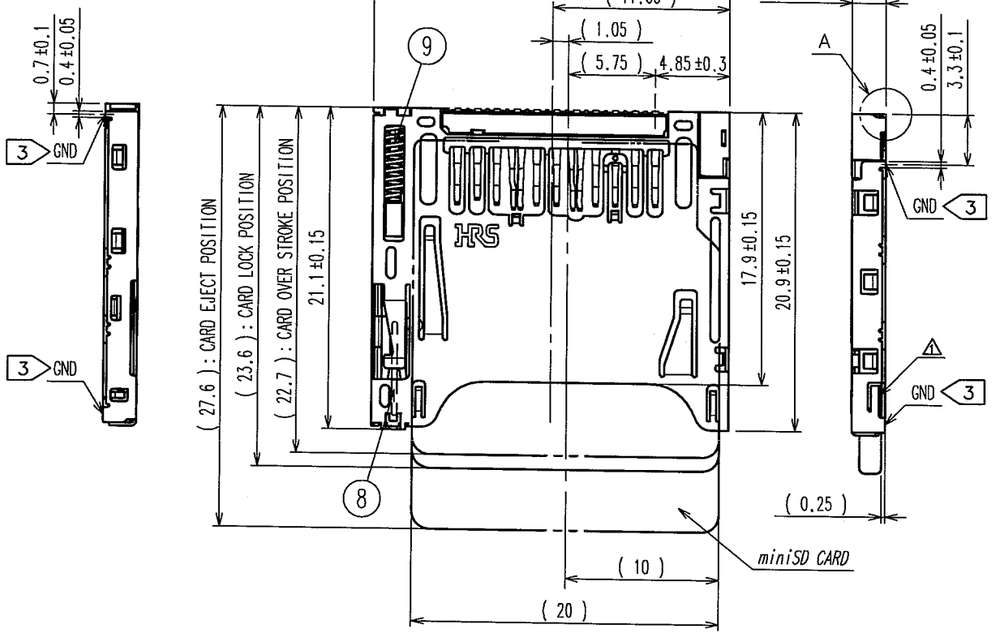
FORM No.231-2

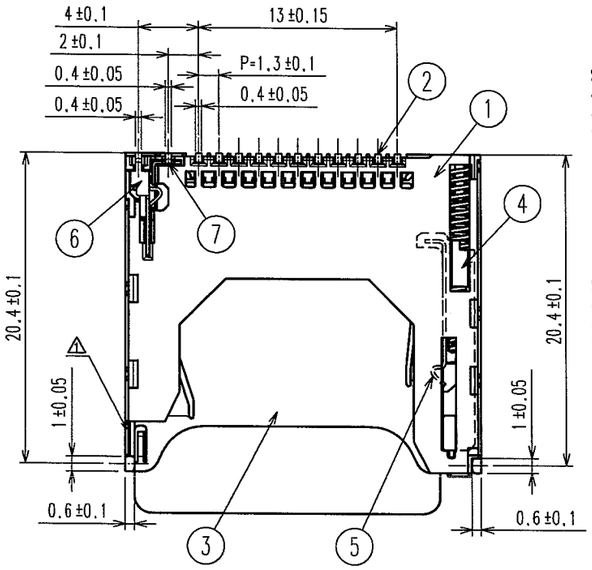
2005/09/16 01:56:24 CAROL.TRIBBLE

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。

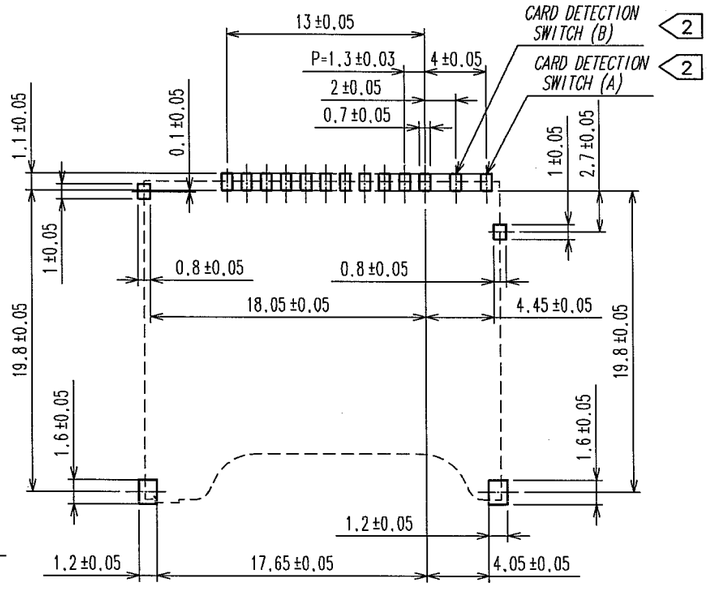
	COUNT	DESCRIPTION OF REVISIONS	BY	CHKD	DATE		COUNT	DESCRIPTION OF REVISIONS	BY	CHKD	DATE
1	2	RE-F-10211	R.T		04.11.17						. .
					. .						. .
					. .						. .



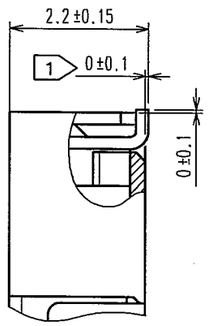




RECOMMENDED PCB LAYOUT (MOUNTING SIDE)



A(10:1)

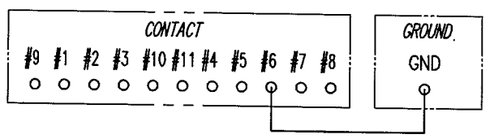


NOTE. 1 CO-PLANARITY SHALL BE 0.1mm MAX.
2 CARD DETECTION PROCEDURE IS SHOWN BELOW.

CARD DETECTION SWITCH	
NO CARD	CARD INSERTED
CLOSE	OPEN
(A) (B)	(A) (B)

3 CIRCUIT OF CONTACTS AND GROUND IS SHOWN BELOW.

CARD INSERTED POSITION



NO.	MATERIAL	FINISH, REMARKS	NO.	MATERIAL	FINISH, REMARKS
4	HEAT-RESISTANT RESIN	BLACK UL94V-0	9	STEEL WIRE	Ni PLATING
3	COPPER ALLOY(t=0.2)		8	STAINLESS STEEL	
2	PHOSPHOR BRONZE(t=0.2)	CONTACT AREA Ni1.5μm+Au0.1μm MOUNTING AREA Ni1.5μm+Au0.03μm	6, 7	PHOSPHOR BRONZE(t=0.2)	CONTACT AREA Ni1.5μm+Au0.1μm MOUNTING AREA Ni1.5μm+Au0.03μm
1	HEAT-RESISTANT RESIN	BLACK UL94V-0	5	STAINLESS STEEL	

CODE NO.(OLD)	DRAWN	DESIGNED	CHECKED	APPROVED	RELEASED
CL	R.Takayama	R.Takayama	H.Ozawa	K.Akiyama	
	04.04.22	04.04.22	04.04.23	04.04.23	. .

SCALE FREE	DRAWING NO. EDC3-155009	PART NO. DM2B-DSFW-PEJ-S
UNITS mm	HRS HIROSE ELECTRIC CO., LTD	CODE NO. CL609-0009-1 1/2

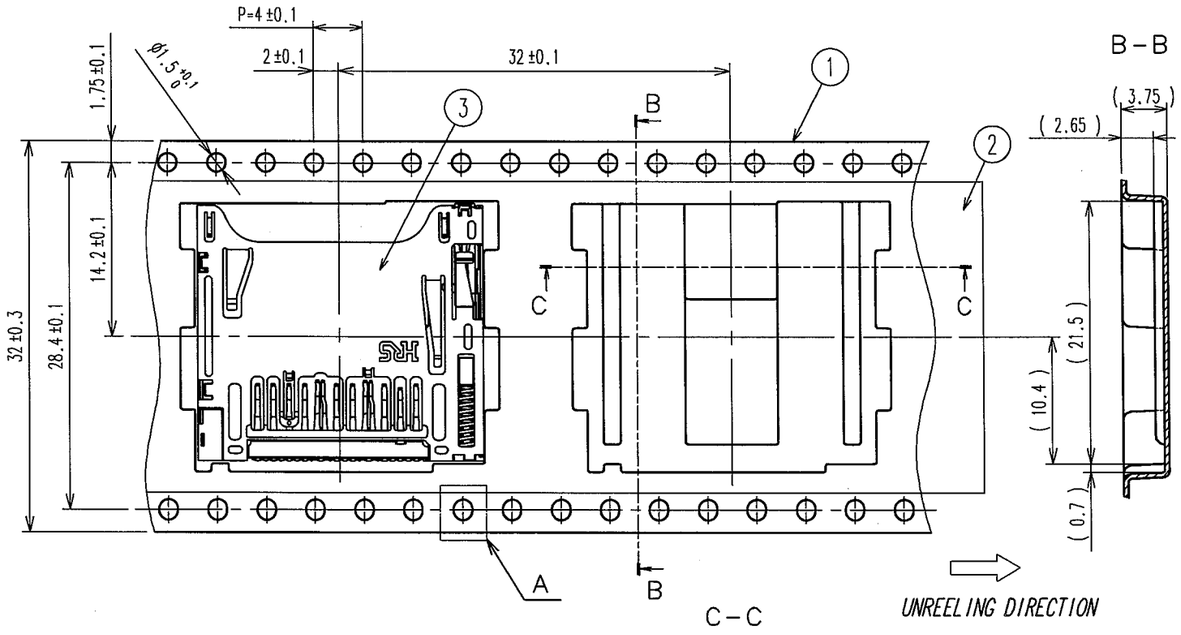
TO

FORM NO.229 PC

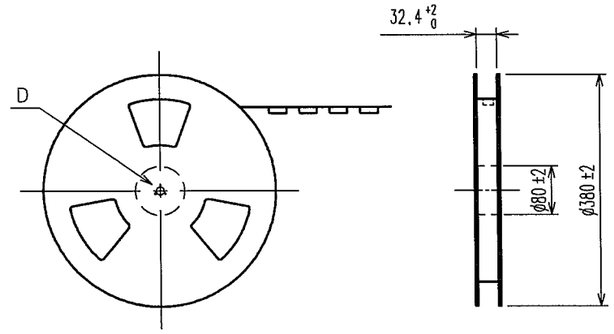
2005/09/16 01:56:24 CAROL.TRIBBLE

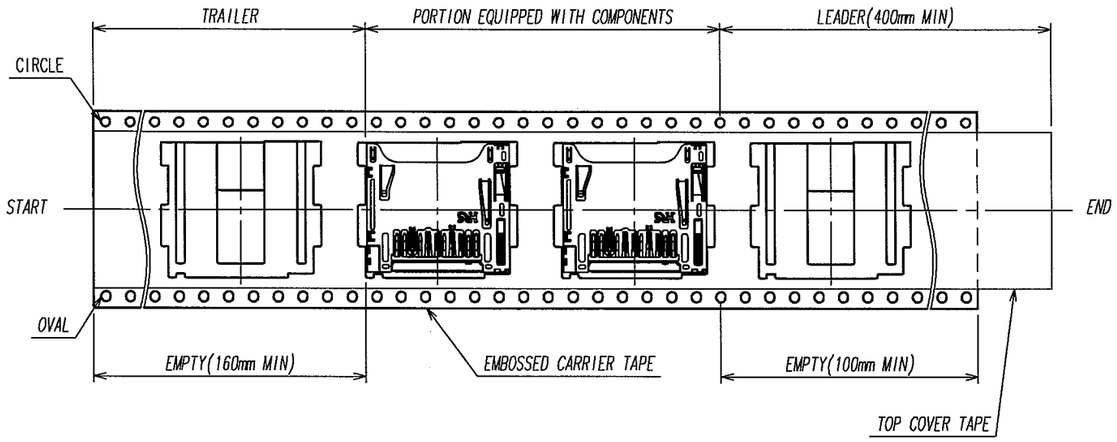
参考図：ご確認用。正式には別途納入仕様書をご請求願います。

COUNT	DESCRIPTION OF REVISIONS	BY	CHKD	DATE

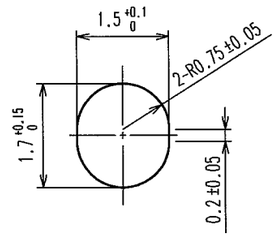


DETAIL OF REEL (1:10)

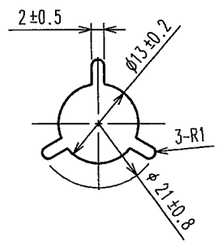




A(10:1)



D(1:1)



NOTE.1 PACKING TYPE:TAPE AND REEL. 800 PCS PER REEL.

NO.	MATERIAL	FINISH, REMARKS
3	(CONNECTORS)	
2	POLYESTER	
1	PS	

CODE NO.(OLD)	DRAWN	DESIGNED	CHECKED	APPROVED	RELEASED
CL	R.Takayama	R.Takayama	H.Ozawa	K.Akiyama	
	04.04.22	04.04.22	04.04.23	04.04.23	. .

SCALE 2:1	DRAWING NO. EDC3-155009	PART NO. DM2B-DSFW-PEJ-S
UNITS mm	HIROSE ELECTRIC CO., LTD	CODE NO. CL609-0009-1 2/2

FORM NO.229

TO