APPLICABLE STANDARD		microSD Memory Card Specifications Ver 1.10		1△
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 (NON-CONDENSING)
	CURRENT	0.5A		

SPECIFICATIONS

ITEM	TEST METHOD	REQUIREMENTS	QT	AT
CONSTRUCTION				
GENERAL EXAMINATION	VISUALLY AND BY MEASURING INSTRUMENT.	ACCORDING TO DRAWING.	×	×
MARKING	CONFIRMED VISUALLY.		×	×
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).	×	–
VOLTAGE PROOF IEC60512-2-4a	500 Vrms AC IS APPLIED FOR 1 MINUTE.	①NO FLASHOVER OR BREAKDOWN. ②CURRENT LEAKAGE 1mA MAXIMUM.	×	×
INSULATION RESISTANCE IEC60512-2-3a	MEASURE WITHIN 1 MINUTE AFTER APPLYING 500 V DC.	INITIALLY 1000 MΩ MINIMUM.	×	–
MECHANICAL CHARACTERISTICS				
CARD INSERTION FORCE CARD EJECTION FORCE	MEASURED BY APPLICABLE CORD AT 25mm/min.	THE INITIAL STAGE:10 N MAX.	×	–
MECHANICAL OPERATION [OFFICE ENVIRONMENT] EIA364B class1.1	5,000 TIMES INSERTIONS AND WITH DRAWAL SHALL BE MADE AT THE CYCLE RATE LESS THAN 10 CYCLES PER 1 MINUTE.	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.	×	–
VIBRATION AND HIGH FREQUENCY IEC60512-4-6d	FREQUENCY 10 TO 55 TO 10 Hz/min, SINGLE AMPLITUDE 0.75 mm FOR 4 h IN 3 DIRECTIONS, TOTAL 12 h.	① NO ELECTRICAL DISCONTINUITY OF 100 ns. ② NO MECHANICAL DAMAGE SHALL OCCUR ON THE PARTS.	×	–
SHOCK IEC60512-4-6c	ACCELERATION 490m/s^2 STANDARD HOLDING TIME 11 ms, SEMI-SINE WAVE FOR 3TIMES IN 3 DIRECTIONS, TOTAL 18 TIMES.		×	–

	COUNT	DESCRIPTION OF REVISIONS	DESIGNED	CHECKED	DATE
⚠	1	DIS-F-005063	KA. KANEKO	NH. SUGITA	10. 09. 27

REMARK
NOTE1:INCLUDE THE TEMPERATURE RISE BY CURRENT.
NOTE 2:CONTACT RESISTANCE INCLUDES CONDUCTOR RESISTANCE.UNLESS OTHERWISE SPECIFIED, THE TEST SHOULD BE DONE UNDER TEMP. 15 TO 35℃, AIR PRESSURE 86 TO 106kPa, RELATIVE HUMIDITY 25 TO 85%.

APPROVED	KI. AKIYAMA	07. 04. 25
CHECKED	OM. MIYAMOTO	07. 04. 25
DESIGNED	KJ. NISHIWAKI	07. 03. 27
DRAWN	KJ. NISHIWAKI	07. 03. 27

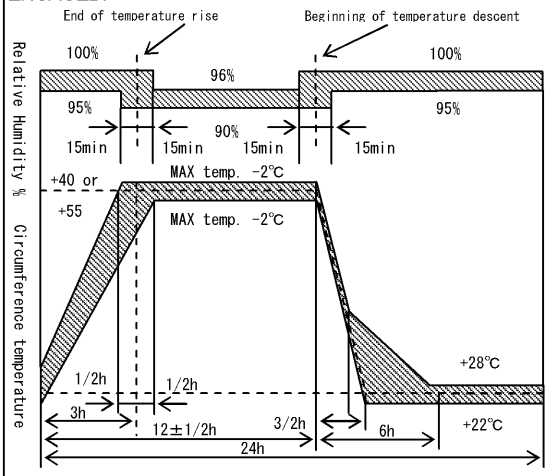
Note QT:Qualification Test AT:Assurance Test
X:Applicable Test

DRAWING NO. ELC4-156814-00

HRS	SPECIFICATION SHEET	PART NO.	DM3D-SF	
	HIROSE ELECTRIC CO., LTD.	CODE NO.	CL609-0025-8-00 ⚠	1/2

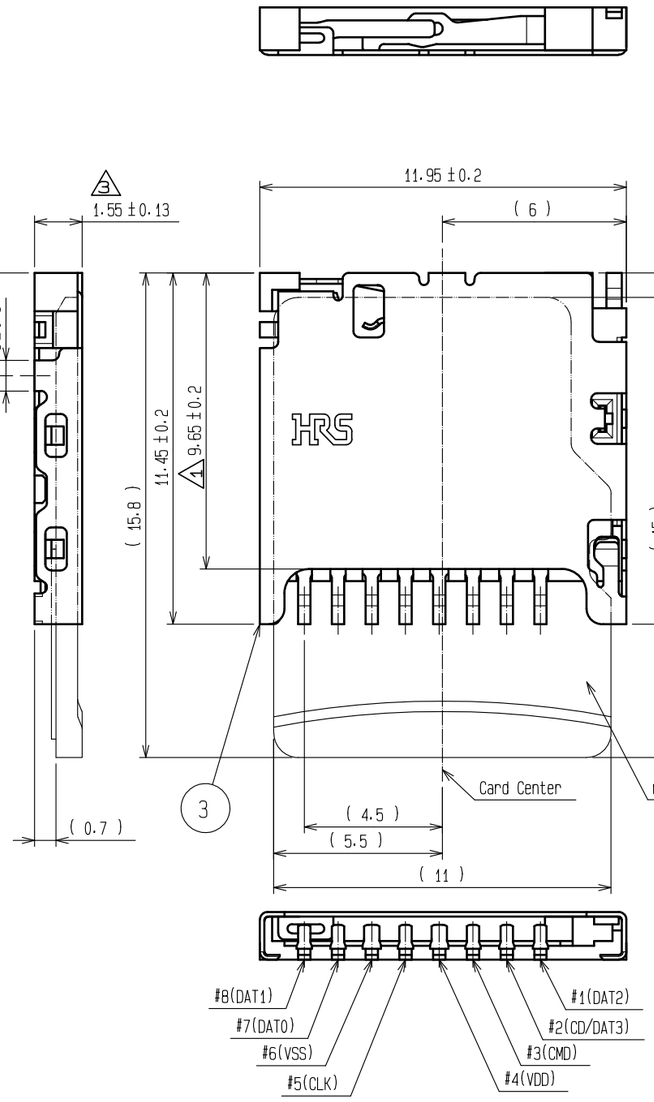
FORM HD0011-2-1

SPECIFICATIONS

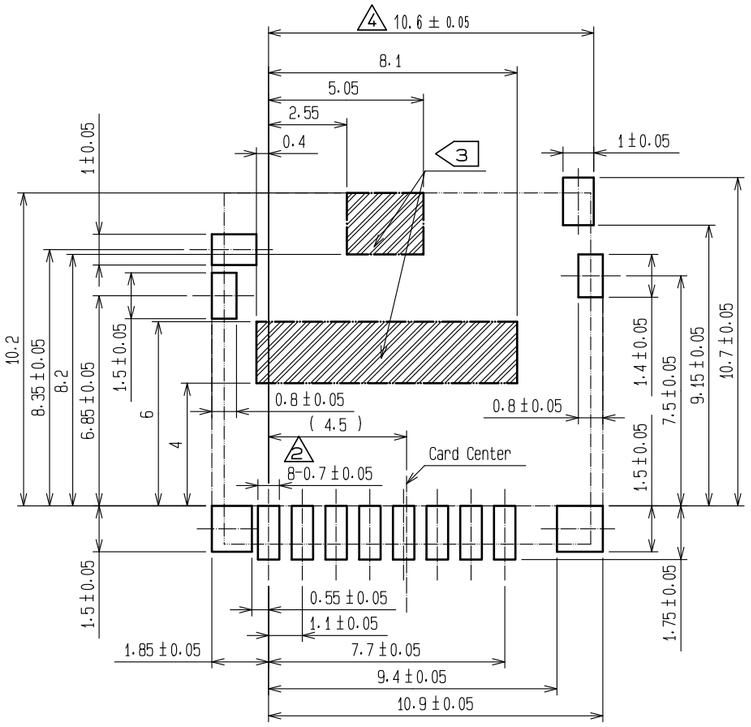
ITEM	TEST METHOD	REQUIREMENTS	QT	AT
ENVIRONMENTAL CHARACTERISTICS				
DAMP HEAT, CYCLIC IEC60512-6-11m	10 CYCLES (1 CYCLE=24 HOURS) WITH CONNECTORS ENGAGED. 	① CONTACT RESISTANCE: AFTER TEST 40 mΩ MAXIMUM CHANGE. ② INSULATION RESISTANCE: AFTER TEST 100 MΩ MINIMUM. ③ NO MECHANICAL DAMAGE OR HEAVY CORROSION SHALL OCCUR ON THE PARTS.	×	–
RAPID CHANGE OF TEMPERATURE IEC60512-6-11d	5 CYCLES (1 CYCLE=1 HOUR) WITH CONNECTORS ENGAGED. TEMPERATURE:-55 TO +85℃		×	–
DRY HEAT IEC60512-6-11i	EXPOSED AT 85 ℃ FOR 96 HOURS WITH CONNECTORS ENGAGED.		×	–
COLD IEC60512-6-11j	EXPOSED AT –25 ℃ FOR 96 HOURS WITH CONNECTORS ENGAGED.		×	–
DAMP HEAT, STEADY STATE IEC60512-6-11c	EXPOSED AT 40 ℃, 90 TO 95 % RH, 96 HOURS WITH CONNECTORS ENGAGED.		×	–
HYDROGEN SULFIDE JEIDA 38	EXPOSED IN 3 PPM HYDROGEN SULFIDE, APPROX. 40℃, 80% RH, 96 HOURS, WITH CONNECTORS ENGAGED.		×	–

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

HRS	SPECIFICATION SHEET	DRAWING NO.	ELC4-156814-00	
		PART NO.	DM3D-SF	
	HIROSE ELECTRIC CO., LTD.	CODE NO	CL609-0025-8-00	⚠ 2/2



RECOMMENDED PCB LAYOUT(MOUNTING SIDE)



NOTE. 1 CO-PLANARITY SHALL BE 0.1mm MAX.
2 CARD DETECTION SWITCH

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

3 : NO PATTERNS ARE PERMITTED IN THIS OBLIQUE-HATCHED AREA.

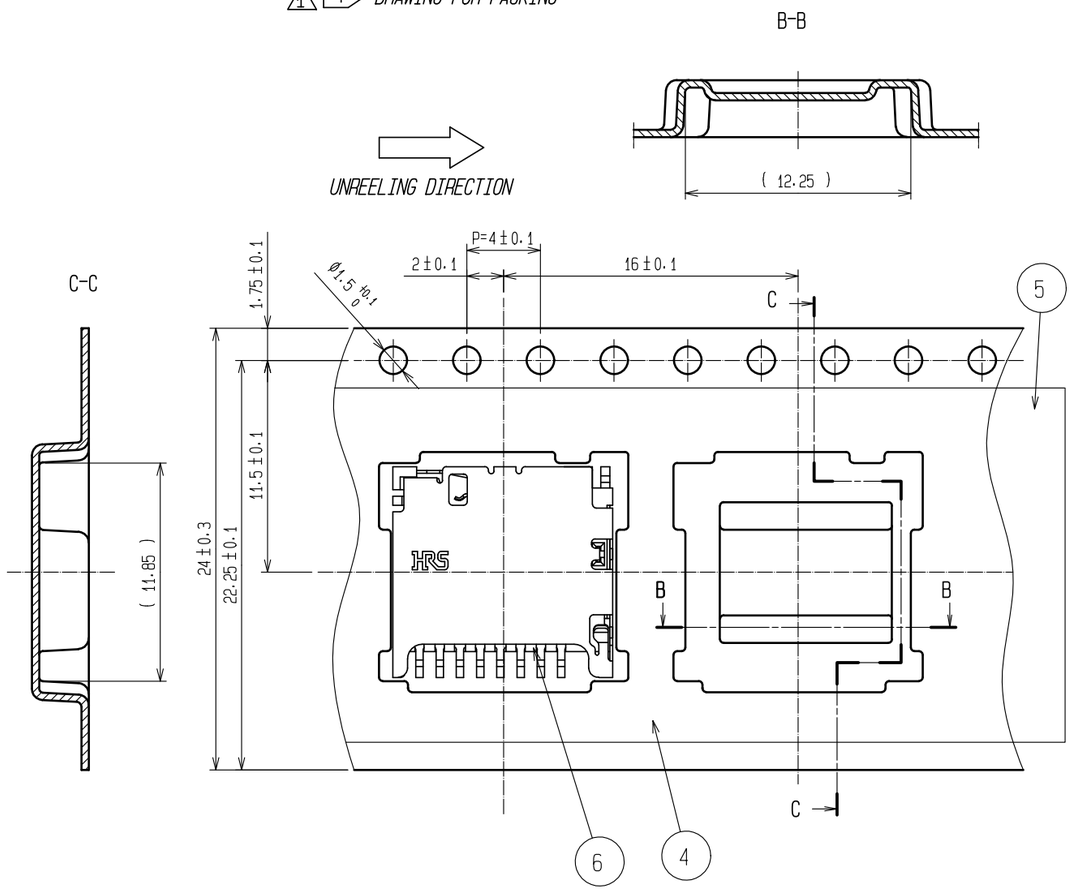
NO.	MATERIAL	FINISH . REMARKS	NO.	MATERIAL	FINISH . REMARKS
5	POLYESTER		6	(CONNECTORS)	
3	STAINLES STEEL	MOUNTING AREA Ni0.5μm+Sn2μm	4	PS	
1	LCP	BLACK UL94V-0	2	PHOSPHOR BRONZE	CONTACT AREA Ni2μm+Au0.1μm
					MOUNTING AREA Ni1μm+Au0.03μm

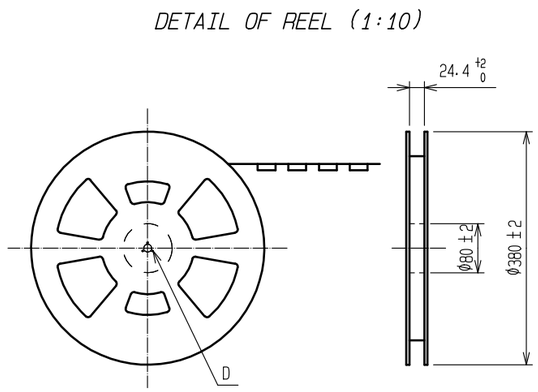
UNITS	SCALE		COUNT	DESCRIPTION OF REVISIONS	DESIGNED	CHECKED	DATE
mm	FREE	4	1	DIS-F-00003973	TY. EDAGAWA	HT. YAMAGUCHI	20181122

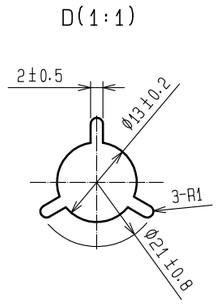
HIROSE ELECTRIC CO., LTD.

APPROVED	KI. AKIYAMA	20070322	DRAWING NO. EDC3-156814-00
CHECKED	OM. MIYAMOTO	20070322	PART NO. DM3D-SF
DESIGNED	KJ. NISHIWAKI	20070322	
DRAWN	KJ. NISHIWAKI	20070322	CODE NO. CL609-0025-8-00 4 1/2

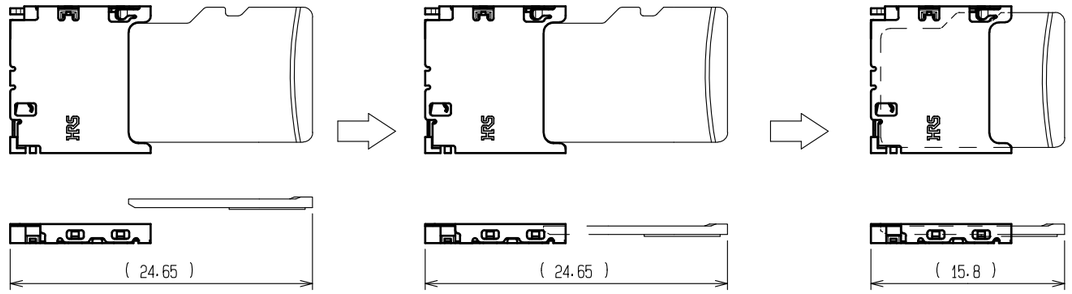
△1 △4 DRAWING FOR PACKING

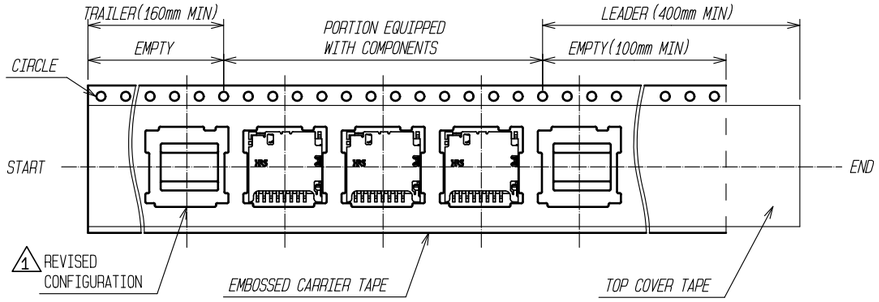






△1 CARD INSERTION METHOD





NOTE. △4 PACKING TYPE: TAPE AND REEL. 2000PCS PER REEL.
5. PLEASE REFER TO TECHNICAL SPECIFICATION : ETAD-F0353
"DM3D SERIES PRODUCT INFORMATION AND HANDLING INSTRUCTIONS"
FOR THE HANDLING OF THE PRODUCT.

HRS	DRAWING NO.	EDC3-156814-00
	PART NO.	DM3D-SF
	CODE NO.	CL609-0025-8-00 △4 2/2