

APPLICABLE STANDARD		SD Card Specifications Ver. 1.0					
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%MAX (NON-CONDENSING)		
	CURRENT	0.5A					
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 MAX (NOTE 2).		X -		
VOLTAGE PROOF IEC60512-2-4a	500 Vrms AC IS APPLIED FOR 1 min.		① NO FLASHOVER OR BREAKDOWN. ② CURRENT LEAKAGE 1mA MAX.		X -		
INSULATION RESISTANCE IEC60512-2-3a	MEASURE WITHIN 1 min AFTER APPLYING 500 V DC.		INITIALLY 1000 MΩ MIN.		X -		
MECHANICAL CHARACTERISTICS							
CARD INSERTION FORCE	MEASURED BY APPLICABLE CORD AT 25mm/min.		THE INITIAL STAGE:10 N MAX. AFTER MECHANICAL OPERATION:10N MAX.		X -		
MECHANICAL OPERATION [OFFICE ENVIRONMENT] EIA364B class1.1	10000 TIMES INSERTIONS AND WITH DRAWAL SHALL BE MADE AT THE CYCLE RATE 400 TO 600 CYCLES/h.		① CONTACT RESISTANCE: AFTER TEST 40 mΩ MAX CHANGE. (CONTACT RESISTANCE REVERSION BY INSERTION AND EXTRACTION IS VAILABLE) ② NO MECHANICAL DAMAGE SHALL OCCUR ON THE PARTS.		X -		
VIBRATION AND HIGH FREQUENCY IEC60512-4-6d	FREQUENCY 10 TO 55 TO 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/s ² 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 MAX CHANGE. ② INSULATION RESISTANCE: AFTER TEST 100 MΩ MIN. ③ NO MECHANICAL DAMAGE OR HEAVY CORROSION SHALL OCCUR ON THE PARTS.		X -		
COUNT	DESCRIPTION OF REVISIONS		DESIGNED		CHECKED		
△					DATE		
REMARK				APPROVED	KI.AKIYAMA 05.07.20		
NOTE 1:INCLUDE THE TEMPERATURE RISE BY CURRENT.				CHECKED	SI.TOMIOKA 05.07.19		
NOTE 2:CONTACT RESISTANCE INCLUDES CONDUCTOR RESISTANCE.UNLESS OTHERWISE SPECIFIED, THE TEST SHOULD BE DONE UNDER TEMP. 15 TO 35°C, AIR PRESSURE 86 TO 106kPa, RELATIVE HUMIDITY 25 TO 85%.				DESIGNED	HT.SUGIMURA 05.07.19		
Note QT:Qualification Test AT:Assurance Test X:Applicable Test				DRAWN	HM.SAITO 05.07.15		
			DRAWING NO.		ELC4-153736-02		
		SPECIFICATION SHEET		PART NO.	DM1AA-SF-PEJ(82)		
HIROSE ELECTRIC CO., LTD.		CODE NO.		CL609-0004-8-82	△ 1/2		

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 TO +85°C	① CONTACT RESISTANCE: AFTER TEST 40 mΩ MAX CHANGE. ② INSULATION RESISTANCE: AFTER TEST 100 MΩ MIN. ③ NO MECHANICAL DAMAGE OR HEAVY CORROSION SHALL OCCUR ON THE PARTS.	X	-
DRY HEAT IEC60512-6-11i	EXPOSED AT 85 °C FOR 96 HOURS WITH CONNECTORS ENGAGED.		X	-
COLD IEC60512-6-11j	EXPOSED AT -25 °C FOR 96 HOURS WITH CONNECTORS ENGAGED.		X	-
DAMP HEAT, STEADY STATE IEC60512-6-11c	EXPOSED AT 40 °C,90 TO 95 % RH, 96 HOURS WITH CONNECTORS ENGAGED.		X	-
HYDROGEN SULFIDE JEIDA 38	EXPOSED IN 3 PPM HYDROGEN SULFIDE , APPROX. 80% RH,96 HOURS, WITH CONNECTORS ENGAGED.		X	-
CORROSION SALT MIST (JIS C 5402 7.1)	EXPOSED IN 5 ± 1 % SALT WATER SPRAY , 35 ± 2 °C,48 HOURS, WITH CONNECTORS ENGAGED. AFTER THE TEST,THE TEST SAMPLE SHALL BE RINSED WITH WATER AND DRIED AT THE AMBIENT TEMP. FOR 24 HOURS.	NO MECHANICAL DAMAGE OR HEAVY CORROSION SHALL OCCUR ON THE PARTS.	X	-

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HRS	SPECIFICATION SHEET	PART NO. DM1AA-SF-PEJ (82)
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