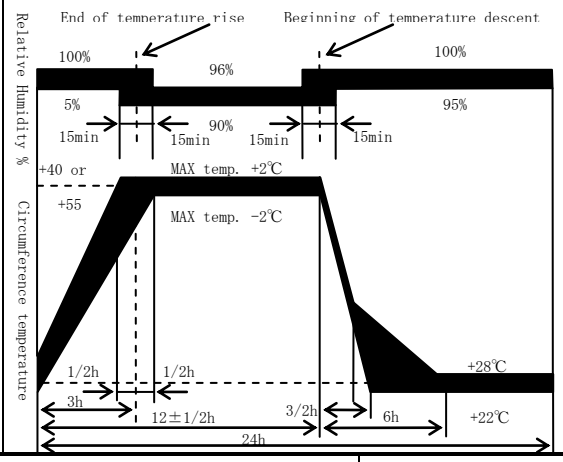
Apr.1.2024 Copyright 2024 HIROSE ELECTRIC CO., LTD. All Rights Reserved.
In case of consideration for using Automotive equipment / device which demand high reliability, kindly contact our sales window correspondents.

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.	×	×
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 MAX (NOTE 2).	×	–
VOLTAGE PROOF IEC60512-2-4a	500 Vrms AC IS APPLIED FOR 1 MINUTE.	①NO FLASHOVER OR BREAKDOWN. ②CURRENT LEAKAGE 1mA MAX.	×	–
INSULATION RESISTANCE IEC60512-2-3a	MEASURE WITHIN 1 MINUTE AFTER APPLYING 500 V DC.	INITIALLY 1000 MΩ MIN.	×	–
MECHANICAL CHARACTERISTICS				
CARD INSERTION FORCE	MEASURED BY APPLICABLE CORD AT 25mm/min.	THE INITIAL STAGE:10 N MAX. AFTER MECHANICAL OPERATION:10N MAX.	×	–
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.	×	–
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.	×	–
SHOCK IEC60512-4-6c	ACCELERATION 490m/s^2 STANDARD HOLDING TIME 11 ms, SEMI-SINE WAVE FOR 3TIMES IN 3 DIRECTIONS.		×	–
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.	×	–

	COUNT	DESCRIPTION OF REVISIONS	DESIGNED	CHECKED	DATE
0					

REMARK
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 TO +35℃, AIR PRESSURE 86 TO 106kPa, RELATIVE HUMIDITY 25 TO 85%.

APPROVED	HT. YAMAGUCHI	20200318
CHECKED	HT. YAMAGUCHI	20200318
DESIGNED	MT. ITANO	20200318
DRAWN	DS. HIROWATARI	20200317

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

HRS	SPECIFICATION SHEET	DRAWING NO.	ELC-153563-92-00
		PART NO.	DM1B-DSF-PEJ(92)
	HIROSE ELECTRIC CO., LTD.	CODE NO.	CL609-0003-5-92 0 1/2

FORM HD0011-2-1

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℃	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.	×	–
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. 80% RH,96 HOURS, WITH CONNECTORS ENGAGED.		×	–
CORROSION SALT MIST (JIS C 5402 7.1)	EXPOSED IN 5±1 % SALT WATER SPRAY , +35±2℃,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.	×	–

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

HRS	SPECIFICATION SHEET	DRAWING NO.	ELC-153563-92-00	
		PART NO.	DM1B-DSF-PEJ(92)	
	HIROSE ELECTRIC CO., LTD.	CODE NO	CL609-0003-5-92	0 2/2

FORM HD0011-2-2

Apr.1.2024 Copyright 2024 HIROSE ELECTRIC CO., LTD. All Rights Reserved.
In case of consideration for using Automotive equipment / device which demand high reliability, kindly contact our sales window correspondents.