

COUNT	DESCRIPTION OF REVISIONS	BY	CHKD	DATE	COUNT	DESCRIPTION OF REVISIONS	BY	CHKD	DATE
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APPLICABLE STANDARD		SSFD CONNECTOR MINIMUM REQUIREMENTS							
RATING	OPERATING TEMPERATURE RANGE	-20 °C TO +60 °C			STORAGE TEMPERATURE RANGE	-40 °C TO +70 °C			
	VOLTAGE	AC 125V			OPERATING HUMIDITY RANGE	95% MAXIMUM (NON-CONDENSING)			
	CURRENT	0.5A							
<b>SPECIFICATIONS</b>									
ITEM		TEST METHOD			REQUIREMENTS			QT/AT	
<b>CONSTRUCTION</b>									
GENERAL EXAMINATION		VISUALLY AND BY MEASURING INSTRUMENT.			ACCORDING TO DRAWING.			X X	
MARKING		CONFIRMED VISUALLY.						X X	
<b>ELECTRIC CHARACTERISTICS</b>									
CONTACT RESISTANCE (LOW LEVEL) (MIL-STD-1344A) METHOD 3002.1		OPEN VOLTAGE 20 mV AC MAX. TEST CURRENT 1mA.			INITIALLY 100 mΩ MAXIMUM.			X -	
WITHSTANDING VOLTAGE METHOD 301		500 Vrms AC IS APPLIED FOR 1 MINUTE.			① NO SHORTING OR OTHER DAMAGES. ② CURRENT LEAKAGE 1mA MAXIMUM.			X -	
INSULATION RESISTANCE METHOD 302		MEASURE WITHIN 1 MINUTE AFTER APPLYING 500 V DC.			INITIALLY 1000 MΩ MINIMUM.			X -	
<b>MECHANICAL CHARACTERISTICS</b>									
TOTAL INSERTION FORCE		MEASURED BY APPLICABLE CARD.			9.8 N MAXIMUM			X -	
TOTAL PULLING FORCE		(1 Chip SmartMedia)			1.47 N MINIMUM AND 9.8 N MAXIMUM			X -	
MECHANICAL OPERATION (OFFICE ENVIRONMENT)		10000 TIMES INSERTIONS AND WITH DRAWAL SHALL BE MADE AT THE CYCLE RATE 400~800 CYCLES/H.			① CONTACT RESISTANCE AFTER TEST 40 mΩ MAXIMUM CHANGE. ② NO MECHANICAL DAMAGE SHALL OCCUR ON THE PARTS.			X -	
VIBRATION AND HIGH FREQUENCY METHOD 2040		FREQUENCY 10 TO 2000 Hz, AMPLITUDE 1.52 mm, 147 m/s <sup>2</sup> PEAK AT 4 h, FOR 3 DIRECTIONS.			① MUST NOT CAUSE CURRENT INTERRUPTION GREATER THAN 100 ns. ② NO MECHANICAL DAMAGE SHALL OCCUR ON THE PARTS.			X -	
SHOCK METHOD 213B		ACCELERATION 490 m/s <sup>2</sup> STANDARD HOLDING TIME 11 ms, SEMI-SINE WAVE AT 3 TIMES FOR 3 DIRECTION.						X -	
<b>ENVIRONMENTAL CHARACTERISTICS</b>									
MOISTURE RESISTANCE		10 CYCLES (1 CYCLE=24 HOURS) WITH CONNECTORS ENGAGED. TEMPERATURE: -10~+65°C. HUMIDITY: 90~98% AFTER THE TEST, THE TEST SAMPLE SHALL BE LEFT AT THE AMBIENT TEMP. FOR 1 TO 2 HOURS. [EIA TP 384-31]			① CONTACT RESISTANCE AFTER TEST 40 mΩ MAXIMUM CHANGE. ② INSULATION RESISTANCE AFTER TEST 100 MΩ MINIMUM. ③ NO HEAVY CORROSION.			X -	
THERMAL SHOCK		TEMPERATURE -55 → +5~35 → +85 → +5~35 °C TIME 30 → 5 MAX → 30 → 5 MAX. min. UNDER 5 CYCLES WITH CONNECTORS ENGAGED. AFTER THE TEST, THE TEST SAMPLE SHALL BE LEFT AT THE AMBIENT TEMP. FOR 1 TO 2 HOURS. [IEC 512 6-11b]			① CONTACT RESISTANCE AFTER TEST 40 mΩ MAXIMUM CHANGE ② INSULATION RESISTANCE AFTER TEST 100 MΩ MINIMUM. ③ NO PHYSICAL DAMAGE SHALL OCCUR DURING TESTING.			X -	
REMARKS NOTE CONTACT RESISTANCE CAN MEASURE EXCLUDE THE RESISTANCE OF CONDUCTOR.					DRAWN <i>Souda</i> 00.05.09	DESIGNED <i>...</i> 00.05.09	CHECKED <i>...</i> 00.05.09	APPROVED <i>...</i> 00.05.09	RELEASED 1 22 02 USA
Unless otherwise specified, refer to MIL-STD-202F.					Note QT: Qualification Test AT: Assurance Test X: Applicable Test				
<b>HRS</b> HIROSE ELECTRIC CO., LTD.		SPECIFICATION SHEET			PART NO. MCR102A-22R-1. 27SF				
CODE NO. (OLD) CL		DRAWING NO. ELC4-0152872			PART NO. CL548-0210-4			1 2	

FOR REFERENCE ONLY  
Subject to change without notice

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## SPECIFICATIONS

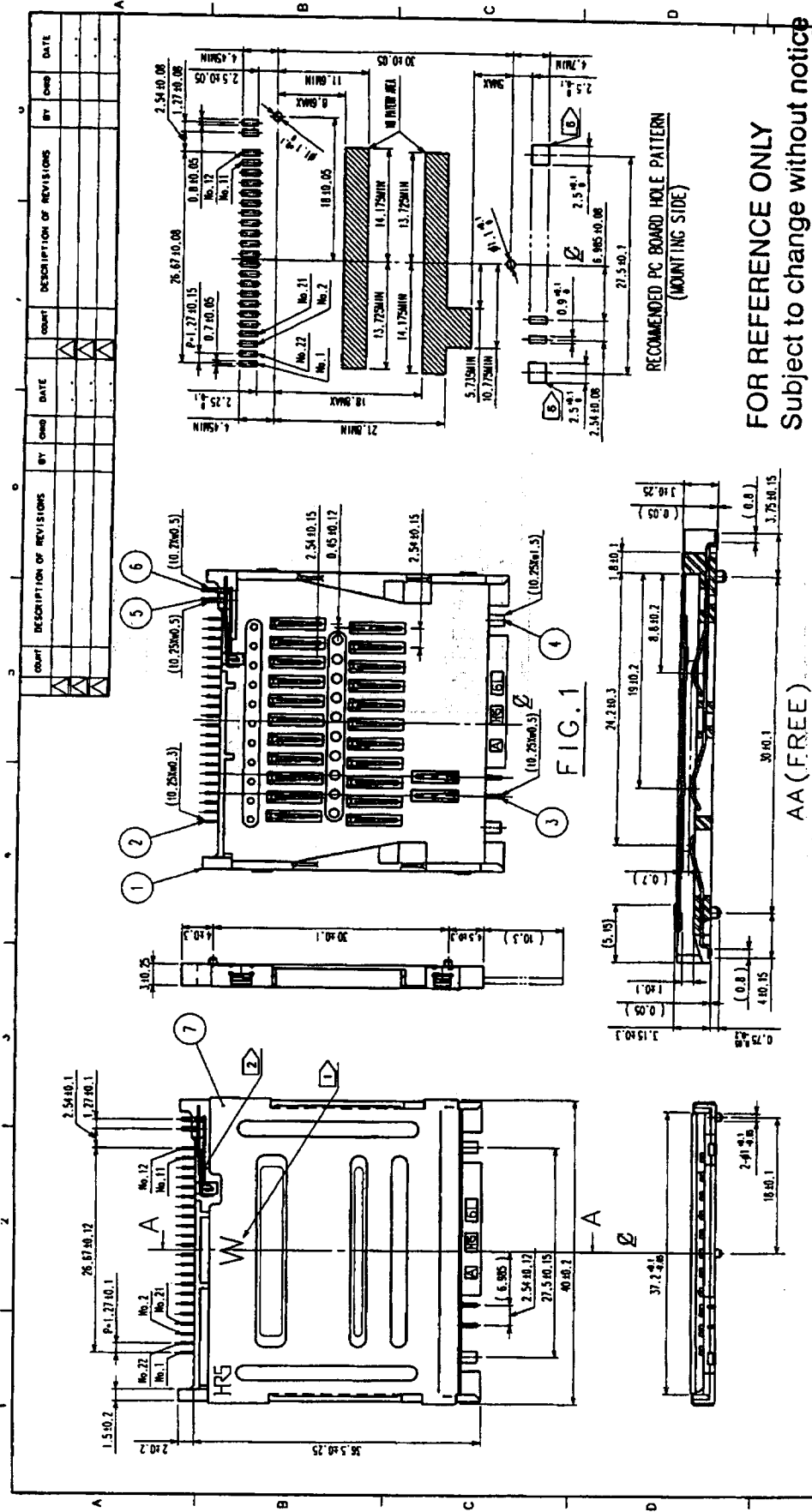
ITEM	TEST METHOD	REQUIREMENTS	QT	AT
DURABILITY (HIGH TEMPERATURE)	EXPOSED AT 85 °C, 250 HOURS WITH CONNECTORS ENGAGED. AFTER THE TEST, THE TEST SAMPLE SHALL BE LEFT AT THE AMBIENT TEMP. FOR 1 TO 2 HOURS. <span style="font-size: small;">[IEC 512 6-11b]</span>	① CONTACT RESISTANCE :AFTER TEST 40 mΩ MAXIMUM CHANGE ② NO PHYSICAL DAMAGE SHALL OCCUR DURING TESTING.	X	—
COLD RESISTANCE	EXPOSED AT -55 °C, 96 HOURS WITH CONNECTORS ENGAGED. AFTER THE TEST, THE TEST SAMPLE SHALL BE LEFT AT THE AMBIENT TEMP. FOR 1 TO 2 HOURS. <span style="font-size: small;">[IEC 512 6-11J]</span>	① CONTACT RESISTANCE :AFTER TEST 40 mΩ MAXIMUM CHANGE. ② NO PHYSICAL DAMAGE SHALL OCCUR DURING TESTING.	X	—
HUMIDITY (NORMAL CONDITION)	EXPOSED AT 40±2 °C, 90 TO 95 % RH 96 HOURS WITH CONNECTORS ENGAGED. AFTER THE TEST, THE TEST SAMPLE SHALL BE LEFT AT THE AMBIENT TEMP. FOR 1 TO 2 HOURS. <span style="font-size: small;">[IEC 512 6-11J]</span>	① CONTACT RESISTANCE :AFTER TEST 40 mΩ MAXIMUM CHANGE. ② INSULATION RESISTANCE :AFTER TEST 100 MΩ MINIMUM. ③ NO PHYSICAL DAMAGE SHALL OCCUR DURING TESTING.	X	—
MIX FLOWING GAS	EXPOSED IN 3 PPM H <sub>2</sub> S AND IN 10 PPM SO <sub>2</sub> , 40±2 °C, APPROX. 85% RH, 48 HOURS, WITH CONNECTORS ENGAGED. AFTER THE TEST, THE TEST SAMPLE SHALL BE LEFT AT THE AMBIENT TEMP. FOR 1 TO 2 HOURS. <span style="font-size: small;">[JEIDA 40 AND 41 HYBRID CONDITION]</span>	① CONTACT RESISTANCE :AFTER TEST 40 mΩ MAXIMUM CHANGE. ② NO HEAVY CORROSION	X	—
CORROSION SALT MIST  METHOD 101D	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 HEAVY CORROSION.	X	—
<p style="font-size: 24px; margin: 0;">FOR REFERENCE ONLY</p> <p style="font-size: 18px; margin: 0;">Subject to change without notice</p>				

REMARKS	DRAWN	DESIGNED	CHECKED	APPROVED	RELEASED
Unless otherwise specified, refer to MIL-STD-202F.	<i>Sanda</i> 00.05.09	<i>A. Obara</i> 00.05.09	<i>M. Yamaguchi</i> 00.05.09	<i>M. Yamaguchi</i> 00.05.09	[Stamp]
	Note QT: Qualification Test AT: Assurance Test X: Applicable Test				

TO  
PCK

<b>HRS</b> HIROSE ELECTRIC CO., LTD.	SPECIFICATION SHEET	PART NO. MCR102A-22R-1. 27SF
CODE NO.(OLD) CL	DRAWING NO. ELC4-0152872	PART NO. CL548-0210-4
		2 2





DESCRIPTION OF REVISIONS		BY	DATE	COUNT	DESCRIPTION OF REVISIONS	BY	DATE

4	BRASS	LEAD-TIN-LEAD OTHERS-NICKEL UNDER PLATED-NICKEL	7	SUS	CONTACT AREA-GOLD(FLASH) LEAD-TIN-LEAD UNDER PLATED-NICKEL
2, 3	PHOSPHOR BRONZE	CONTACT AREA-GOLD 0.2µm LEAD-TIN-LEAD 2µm UNDER PLATED-NICKEL	6	BRASS	CONTACT AREA-GOLD(FLASH) LEAD-TIN-LEAD UNDER PLATED-NICKEL
1	SPS	BLACK UL-94V-0	5	BERYLLIUM COPPER	LEAD-TIN-LEAD UNDER PLATED-NICKEL
NO.	MATERIAL	FINISH, REMARKS	NO.	MATERIAL	FINISH, REMARKS
CODE NO. (OLD)	CL		DESIGNED		RELEASED
			<i>Saunder</i>	<i>00.05.08</i>	<i>00.15.09</i>
			<i>00.05.07</i>	<i>00.15.09</i>	<i>00.05.09</i>

SCALE	2 : 1
UNITS	MM
DRAWING NO.	EDC3-152872
PART NO.	MCR102A-22R-1.27SF
CODE NO.	CL54B-0210-4

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AA (FREE)

NOTES

- INDICATION "H" ON THIS PART MEANS FOR BOTH 3.3V AND 5V CARD.
- SWITCH CONTACT, REF. NO. 5 AND 6 WILL BE APART WHEN THE CARD IS INSERTED.
- Ø INDICATES CENTER LINE OF 37.25Ø.
- LEAD CO-PLANARITY TO BE 0.1 OR LESS.
- CONNECTOR WITHOUT COVER, REF. NO. 7 IS SHOWN IN FIG. 1.
- REF. NO. 7 IS GROUNDED ONTO PCB THROUGH REF. NO. 4 FOR THE PROTECTION OF EMI.
- SINK MARK MAY BE ADDED FOR THE IMPROVEMENT WITHOUT NOTICE.



TO	
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