

FOR REFERENCE ONLY
Subject to change without notice

TO
PCK

COUNT	DESCRIPTION OF REVISIONS	BY	CHKD	DATE	COUNT	DESCRIPTION OF REVISIONS	BY	CHKD	DATE
△					△				
△					△				
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							
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 (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	-
MECHANICAL CHARACTERISTICS									
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 ² 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 ² STANDARD HOLDING TIME 11 ms, SEMI-SINE WAVE AT 3 TIMES FOR 3 DIRECTION.						X	-
ENVIRONMENTAL CHARACTERISTICS									
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. [IEA 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	DESIGNED	CHECKED	APPROVED	RELEASED
Unless otherwise specified, refer to MIL-STD-202F.					Souda 00.05.09	00.05.09	00.05.09	00.05.09	1 22 02 USA
Note QT: Qualification Test AT: Assurance Test X: Applicable Test									
HRS HIROSE ELECTRIC CO., LTD.					SPECIFICATION SHEET				
PART NO. MCR102A-22R-1. 27SF									
CODE NO. (OLD)		DRAWING NO.			PART NO.				
CL		ELC4-0152872			CL548-0210-4			1 2	

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. [IEC 512 6-11b]	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. [IEC 512 6-11J]	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. [IEC 512 6-11J]	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 ₂ S AND IN 10 PPM SO ₂ , 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. [JEIDA 40 AND 41 HYBRID CONDITION]	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	—		
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REMARKS		DRAWN	DESIGNED	CHECKED	APPROVED	RELEASED
		Sanda 00.05.09	A. Obara 00.05.09	M. Yamaguchi 00.05.09	M. Yamaguchi 00.05.09	HRS 22/02/04
Unless otherwise specified, refer to MIL-STD-202F.						
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