

In case of consideration for using Automotive equipment / device which demand high reliability, kindly contact our sales window correspondents.

△	△	△	△	△	△	△	△	△	△
COUNT	DESCRIPTION OF REVISIONS	BY	CHKD	DATE	COUNT	DESCRIPTION OF REVISIONS	BY	CHKD	DATE
1	RE-F-06478	J.M	M.D	99.7.29					

APPLICATION STANDARD		STORAGE TEMPERATURE RANGE	RELATIVE HUMIDITY (NO DEW CONDENSATION IS PERMITTED)
OPERATING TEMPERATURE RANGE	-55 °C TO 85 °C	RANGE	-10 °C TO 60 °C
RATING VOLTAGE	AC 50 V	OPERATING HUMIDITY RANGE	95% MAX
CURRENT	0.3 A		

SPECIFICATIONS

ITEM	TEST METHOD	REQUIREMENT	Q/T	A/T
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CONSTRUCTION VISUALLY AND BY MEASURING INSTRUMENT ACCORDING TO DRAWING

GENERAL EXAMINATION VISUALLY AND BY MEASURING INSTRUMENT CONFIRMED VISUALLY

MARKING

ELECTRICAL CHARACTERISTICS

CONTACT RESISTANCE 100 mA (DC OR 1000 HZ) 60 mΩ MAX

INSULATION RESISTANCE 100 V DC 100 MΩ MIN

VOLTAGE PROOF 150 V AC FOR 1 min. NO FLASHOVER OR BREAKDOWN.

MECHANICAL CHARACTERISTICS

INSERTION AND WITHDRAWAL FORCES MEASURED BY APPLICABLE CONNECTOR

MECHANICAL OPERATION 50 TIMES INSERTION AND EXTRACTIONS

VIBRATION FREQUENCY: 10 TO 55 HZ. SINGLE

AMPLITUDE: 0.75 mm, m/s²

AT 10 CYCLES FOR 3 DIRECTIONS

SHOCK 490 ms² DURATION OF PULSE 11 ms AT 3 TIMES FOR 3 DIRECTIONS.

ENVIRONMENTAL CHARACTERISTICS

DAMP HEAT (STEADY STATE) EXPOSED AT 40±2 °C, 90~95 %, 96 h

RAPID CHARGE OF TEMPERATURE TIME 30→2~3→30→2~3 min.

UNDER 5 CYCLES

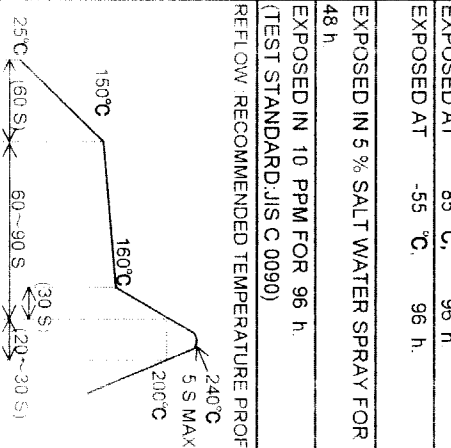
DRY HEAT EXPOSED AT 85 °C, 96 h

COLD EXPOSED AT -55 °C, 96 h

CORROSION SALT MIST EXPOSED IN 5 % SALT WATER SPRAY FOR 48 h

SULPHUR DIOXIDE EXPOSED IN 10 PPM FOR 96 h

RESISTANCE TO SOLDERING HEAT REFLOW RECOMMENDED TEMPERATURE PROFILE



TO BE TESTED UNDER THE ABOVE CONDITIONS. SOLDERED AT SOLDER TEMPERATURE. 235 °C FOR IMMERSION DURATION. 2 s.

SOLDERABILITY NO PINHOLE OR DEWETTING ON SOLDERED SURFACE

REMARKS

DESIGNED	CHECKED	APPROVED	RELEASED
S.Kitajima 99.05.25	M.ushida 99.05.26	Y.Yoshimura 99.05.27	

UNLESS OTHERWISE SPECIFIED, REFER TO JIS C 5402.

NOTE QT QUALIFICATION TEST AT ASSURANCE TEST O APPLICABLE TEST

HRS HIROSE ELECTRIC CO. LTD SPECIFICATION SHEET FX111LA - 68P - SV

CODE NO.(O.I.D.)	DRAWING NO	CODE NO	PART NO
CL	ELC4 - 152100 -	CL 573 - 0042 - 1	1



TO
PCK