

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

TO
PCK

COUNT	DESCRIPTION OF REVISIONS	BY	CHKD	DATE	COUNT	DESCRIPTION OF REVISIONS	BY	CHKD	DATE
Δ					Δ				
Δ					Δ				
Δ					Δ				

APPLICABLE STANDARD		OPERATING TEMPERATURE RANGE		STORAGE TEMPERATURE RANGE	
		-55 °C TO 85 °C <sup>(1)</sup>		-10 °C TO 60 °C <sup>(2)</sup>	
RATING		OPERATING HUMIDITY RANGE		STORAGE HUMIDITY RANGE	
VOLTAGE	125 V AC	40 % TO 80 %			
CURRENT	0.5 A	40 % TO 70 % <sup>(2)</sup>			

**SPECIFICATIONS**

ITEM	TEST METHOD	REQUIREMENTS	QT	AT
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<b>CONSTRUCTION</b>				
GENERAL EXAMINATION	VISUALLY AND BY MEASURING INSTRUMENT.	ACCORDING TO DRAWING.	X	X
MARKING	CONFIRMED VISUALLY.		X	X

<b>ELECTRICAL CHARACTERISTICS</b>				
CONTACT RESISTANCE	100 mA (DC OR 1000 Hz).	45 mΩ MAX.	X	
CONTACT RESISTANCE	20 mV MAX, 1 mA(DC OR 1000Hz)	55 mΩ MAX.	X	
MILLIVOLT LEVEL				
METHOD				
INSULATION RESISTANCE	250 V DC.	100 MΩ MIN.	X	
VOLTAGE PROOF	300 V AC FOR 1 min.	NO FLASHOVER OR BREAKDOWN.	X	

<b>MECHANICAL CHARACTERISTICS</b>				
MECHANICAL OPERATION	500 TIMES INSERTIONS AND EXTRACTIONS.	① CONTACT RESISTANCE: 55 mΩ MAX. ② NO DAMAGE, CRACK AND LOOSENESS OF PARTS.	X	
VIBRATION	FREQUENCY 10 TO 55 Hz, AMPLITUDE : 1.52 mm, AT 2 h FOR 3 DIRECTION.	① NO ELECTRICAL DISCONTINUITY OF 1 μs. ② NO DAMAGE, CRACK AND LOOSENESS OF PARTS.	X	
SHOCK	490 m/s <sup>2</sup> , DURATION OF PULSE 11 ms AT 3 TIMES FOR 3 DIRECTIONS.		X	

**ENVIRONMENTAL CHARACTERISTICS**

DAMP HEAT (STEADY STATE)	EXPOSED AT 40±2 °C, 90 ~ 95 %, 96 h.	① CONTACT RESISTANCE: 55 mΩ MAX. ② INSULATION RESISTANCE: 100 MΩ MIN.	X	
RAPID CHANGE OF TEMPERATURE	TEMPERATURE: 55 → +15 → +35 → +85 → +15 → +35 °C TIME 30 → 10 ~ 15 → 30 → 10 ~ 15 min UNDER 5 CYCLES.	③ NO DAMAGE, CRACK AND LOOSENESS OF PARTS.	X	
CORROSION SALT MIST	EXPOSED IN 5 % SALT WATER SPRAY FOR 48 h.	① CONTACT RESISTANCE: 55 mΩ MAX. ② NO HEAVY CORROSION.	X	
HYDROGEN SULPHIDE	EXPOSED IN 3 PPM FOR 96 h. (TEST STANDARD: JEIDA-38)		X	
RESISTANCE TO SOLDERING HEAT	1) SOLDER BATH: SOLDER TEMPERATURE, 260±5 °C FOR IMMERSION DURATION, 10±1 s. 2) SOLDERING IRONS : 360 °C FOR 5 s.	NO DEFORMATION OF CASE OF EXCESSIVE LOOSENESS OF THE TERMINAL.	X	
SOLDERABILITY	SOLDERED AT SOLDER TEMPERATURE 240±3 °C FOR IMMERSION DURATION, 2s.	A NEW UNIFORM COATING OF SOLDER SHALL OVER A MINIMUM OF 95 % OF THE SURFACE BEING IMMERSERD.	X	

<b>REMARKS</b>				
1) TEMPERATURE RISE INCLUDED WHEN ENERGIZED.				
2) THIS STORAGE INDICATES A LONG-TERM STORAGE STATE FOR THE UNUSED PRODUCT BEFORE THE BOARD MOUNTED.				

<b>UNLESS OTHERWISE SPECIFIED, REFER TO MIL-STD-1344.</b>				
Drawn	DESIGNED	CHECKED	APPROVED	RELEASED
I. OKAYAMA	K. NAKAMURA	<i>H. Okawa</i>	<i>H. Okawa</i>	
04.06.09	04.06.09	04.06.09	04.06.09	

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

<b>HRS</b> HIROSE ELECTRIC CO., LTD.		SPECIFICATION SHEET		PART NO.
CODE NO.(OLD)	DRAWING NO.	ELC4 - 083048-21	CL 572	FX2C1-**-P-1. 27DSAL (71)
CL				

