

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
Δ					Δ				
Δ					Δ				

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

ITEM	TEST METHOD	REQUIREMENTS	QT	AT
CONSTRUCTION				
GENERAL EXAMINATION		VISUALLY AND BY MEASURING INSTRUMENT.	×	×
MARKING		CONFIRMED VISUALLY.	×	×

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

MECHANICAL CHARACTERISTICS		REQUIREMENTS		QT	AT
MECHANICAL OPERATION		500 TIMES INSERTIONS AND EXTRACTIONS.	① CONTACT RESISTANCE: 55 mΩ MAX. ② NO DAMAGE, CRACK AND LOOSENESS OF PARTS.	×	
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.	×	
SHOCK	490 m/s <sup>2</sup> , DURATION OF PULSE 11 ms AT 3 TIMES FOR 3 DIRECTIONS.			×	

ENVIRONMENTAL CHARACTERISTICS		REQUIREMENTS		QT	AT
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.		×	
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.		×	
CORROSION SALT MIST	EXPOSED IN 5 % SALT WATER SPRAY FOR 48 h.	① CONTACT RESISTANCE: 55 mΩ MAX. ② NO HEAVY CORROSION.		×	
HYDROGEN SULPHIDE	EXPOSED IN 3 PPM FOR 96 h. (TEST STANDARD: JEIDA-38)			×	
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.		×	
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 IMMersed.		×	

REMARKS	DRAWN	DESIGNED	CHECKED	APPROVED	RELEASED
1) TEMPERATURE RISE INCLUDED WHEN ENERGIZED. 2) THIS STORAGE INDICATES A LONG-TERM STORAGE STATE FOR THE UNUSED PRODUCT BEFORE THE BOARD MOUNTED. Unless otherwise specified, refer to MIL-STD-1344.	LOKAYAMA	K NAKAMURA	<i>H. Okawara</i>	<i>H. Okawara</i>	
Note QTR: Qualification Test AT: Assurance Test X: Applicable Test	04.06.09	04.06.09	04.06.09	04.06.09	

TO	PCK	
<b>HRS</b> HIROSE ELECTRIC CO., LTD. SPECIFICATION SHEET PART NO. FX2C-***P-1. 27DSA (71)		
CODE NO.(OLD)	DRAWING NO.	CODE NO.
CL	ELC4 - 083045-21	CL 572
1		1

