

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
△					△				
△					△				

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

SPECIFICATIONS	
ITEM	TEST METHOD
REQUIREMENTS	
	QT AT

CONSTRUCTION		GENERAL EXAMINATION		VISUALLY AND BY MEASURING INSTRUMENT.		ACCORDING TO DRAWING.	
MARKING		CONFIRMED VISUALLY.				X X	

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

MECHANICAL CHARACTERISTICS			
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.	X
SHOCK	490 ms <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.			
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±1s. 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			

REMARKS			
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.			
Drawn	I. OKAYAMA	Designed	K. NAKAMURA
Checked	<i>H. Okawa</i>	Approved	<i>H. Okawa</i>
Released			
DATE	04.06.09	DATE	04.06.09
DATE	04.06.09	DATE	04.06.09

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

CODE NO.(OLD)	DRAWING NO.	SPECIFICATION SHEET	PART NO.
CL	ELC4 - 083046-21		FX2C-**P-1. 27DSAL (71)
			CL 572
			1
			1

