


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

APPLICABLE STANDARD		TEST METHOD		REQUIREMENTS		QT	AT	
RATING	OPERATING TEMPERATURE RANGE	-55 °C TO 85 °C ⁽¹⁾	STORAGE TEMPERATURE RANGE	-10 °C TO 60 °C ⁽²⁾				
	VOLTAGE	125 V AC	OPERATING HUMIDITY RANGE	40 % TO 80 %				
	CURRENT	0.5 A	STORAGE HUMIDITY RANGE	40 % TO 70 % ⁽²⁾				
SPECIFICATIONS								
ITEM	TEST METHOD		REQUIREMENTS		QT	AT		
GENERAL EXAMINATION		VISUALLY AND BY MEASURING INSTRUMENT.	ACCORDING TO DRAWING.		X	X		
MARKING		CONFIRMED VISUALLY.			X	X		
ELECTRIC CHARACTERISTICS								
CONTACT RESISTANCE	100 mA (DC OR 1000 Hz).		45 mΩ MAX.		X	-		
CONTACT RESISTANCE MILLIVOLT LEVEL METHOD	20 mV MAX, 1 mA(DC OR 1000Hz)		55 mΩ MAX.		X	-		
INSULATION RESISTANCE	250 V DC		100 MΩ MIN.		X	-		
VOLTAGE PROOF	300 V AC FOR 1 min.		NO FLASHOVER OR BREAKDOWN.		X	-		
MECHANICAL CHARACTERISTICS								
INSERTION AND WITHDRAWAL FORCES	MEASURED BY APPLICABLE CONNECTOR.		INSERTION FORCE:	45.8 N MAX.	X	-		
MECHANICAL OPERATION	500 TIMES INSERTIONS AND EXTRactions.		WITHDRAWAL FORCE:	5.1 N MIN.				
VIBRATION	FREQUENCY 10 TO 55 Hz, AMPLITUDE : 1.52 mm, AT 2h FOR 3 DIRECTIONS.		① CONTACT RESISTANCE: 55 mΩ MAX.		X	-		
SHOCK	490 ms ² , DURATION OF PULSE 11 ms AT 3 TIMES FOR 3 DIRECTIONS.		② NO DAMAGE, CRACK AND LOOSENESS OF PARTS.		X	-		
ENVIRONMENTAL CHARACTERISTICS								
DAMP HEAT (STEADY STATE)	EXPOSED AT 40±2 °C, 90 ~ 95 %, 96 h.		① CONTACT RESISTANCE: 55 mΩ MAX.		X	-		
RAPID CHANGE OF TEMPERATURE	TEMPERATURE: -55 → +15 ~ +35 → +85 → +15 ~ +35 °C TIME 30 → 10 ~ 15 → 30 → 10 ~ 15 min. UNDER 5 CYCLES.		② INSULATION RESISTANCE: 100 MΩ MIN.		X	-		
CORROSION SALT MIST	EXPOSED IN 5 % SALT WATER SPRAY FOR 48 h.		③ NO DAMAGE, CRACK AND LOOSENESS OF PARTS.					
HYDROGEN SULPHIDE	EXPOSED IN 3 PPM FOR 96 h. (TEST STANDARD: JEIDA 38)		① CONTACT RESISTANCE: 55 mΩ MAX.		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.		② NO HEAVY CORROSION.		X	-		
SOLDERABILITY	SOLDERED AT SOLDER TEMPERATURE, 240±3°C, FOR IMMERSION DURATION, 2 s.		NO DEFORMATION OF CASE OF EXCESSIVE LOOSENESS OF THE TERMINALS.		X	-		
			A NEW UNIFORM COATING OF SOLDER SHALL COVER A MINIMUM OF 95 % OF THE SURFACE BEING IMMersed.					
COUNT	DESCRIPTION OF REVISIONS	DESIGNED	CHECKED	DATE				
△								
REMARK ⁽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.								
Note QT: Qualification Test AT: Assurance Test X: Applicable Test		DRAWING NO.		ELC4-083222-21				
		SPECIFICATION SHEET		PART NO.		FX202-52S-1. 27DSAL (71)		
		HIROSE ELECTRIC CO., LTD.		CODE NO.		GL572-2474-0-71		
				APPROVED		HS. OKAWA		07.08.22
				CHECKED		HS. OZAWA		07.08.22
		DESIGNED		KY. MAKAMURA		07.08.22		
		DRAWN		TP. MATSUMOTO		07.08.09		