


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	
OPERATING TEMPERATURE RANGE	-55 °C TO 85 °C <sup>(1)</sup>	STORAGE TEMPERATURE RANGE	-10 °C TO 60 °C <sup>(2)</sup>	x	x			
VOLTAGE	100 V AC	OPERATING HUMIDITY RANGE	40 % TO 80 %	x	x			
CURRENT	0.5 A	STORAGE HUMIDITY RANGE	40 % TO 70 % <sup>(2)</sup>	x	x			
SPECIFICATIONS								
ITEM	TEST METHOD			REQUIREMENTS			QT	AT
GENERAL EXAMINATION	VISUALLY AND BY MEASURING INSTRUMENT.			ACCORDING TO DRAWING.			x	x
MARKING	CONFIRMED VISUALLY.						x	x
ELECTRICAL CHARACTERISTICS								
CONTACT RESISTANCE	100 mA (DC OR 1000 Hz).	50 mΩ MAX.	x	-				
CONTACT RESISTANCE MILLIVOLT LEVEL METHOD	20 mV MAX, 1 mA(DC OR 1000HZ)	60 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 : 54.4 N MAX WITHDRAWAL FORCE : 6.8 N MIN			x	-
MECHANICAL OPERATION	500 TIMES INSERTIONS AND EXTRACTIONS.			① CONTACT RESISTANCE: 60 mΩ MAX. ② NO DAMAGE, CRACK AND LOOSENESS OF PARTS.			x	-
VIBRATION	FREQUENCY 10 TO 55 Hz. AMPLITUDE : 0.75 mm, AT 10 CYCLES FOR 3 DIRECTIONS.			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: 60 mΩ MAX. ② INSULATION RESISTANCE: 100 MΩ MIN.			x	-
RAPID CHANGE OF TEMPERATURE	TEMPERATURE-55→+15~+35→+85→+15~+35°C TIME 30 → 2~3 → 30 → 2~3 min UNDER 5 CYCLES.			③ NO DAMAGE, CRACK AND LOOSENESS OF PARTS.			x	-
DRY HEAT	EXPOSED AT 85 °C, 96 h.			① CONTACT RESISTANCE: 60 mΩ MAX. ② NO DAMAGE, CRACK AND LOOSENESS OF PART			x	-
CORROSION SALT MIST	EXPOSED IN 5 % SALT WATER SPRAY FOR 48 h.			① CONTACT RESISTANCE: 60 mΩ MAX. ② NO HEAVY CORROSION.			x	-
SULPHUR DIOXIDE	EXPOSED IN 10 PPM FOR 96 h. (TEST STANDARD: JEIDA-39)						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 MAX.			NO DEFORMATION OF CASE OF EXCESSIVE LOOSENESS OF THE TERMINAL.			x	-
SOLDERABILITY	SOLDERED AT SOLDER TEMPERATURE 240±5°C FOR IMMERSION DURATION, 3 s.			A NEW UNIFORM COATING OF SOLDER SHALL OVER A MINIMUM OF 95 % OF THE SURFACE BEING IMMERSSED.			x	-
COUNT	DESCRIPTION OF REVISIONS	DESIGNED	CHECKED	DATE				
△								
REMARK <sup>(1)</sup> TEMPERATURE RISE INCLUDED WHEN ENERGIZED. <sup>(2)</sup> THIS STORAGE INDICATES A LONG-TERM STORAGE STATE FOR THE UNUSED PRODUCT BEFORE THE BOARD MOUNTED.				APPROVED	HS. OKAWA	08.07.14		
Unless otherwise specified, refer to JIS C 5402				CHECKED	HT. YAMAGUCHI	08.07.14		
				DESIGNED	SY. KAMI GA	08.07.11		
				DRAWN	HK. SUWADORI	08.06.18		
Note QT: Qualification Test AT: Assurance Test X: Applicable Test		DRAWING NO.	ELQ4-151421-21					
		SPECIFICATION SHEET		PART NO.	FX5-68S2A-DSAL (71)			
		HIROSE ELECTRIC CO., LTD.		CODE NO.	CL575-0128-8-71			
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