

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 ⁽¹⁾	STORAGE TEMPERATURE RANGE	-10 °C TO 60 °C ⁽²⁾					
VOLTAGE	100 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	
CONSTRUCTION		VISUALLY AND BY MEASURING INSTRUMENT.		ACCORDING TO DRAWING.				
GENERAL EXAMINATION	CONFIRMED VISUALLY.					×	×	
MARKING						×	×	
ELECTRICAL CHARACTERISTICS								
CONTACT RESISTANCE	100 mA (DC OR 1000 HZ).		50 mΩ MAX.			×	-	
CONTACT RESISTANCE MILLIVOLT LEVEL METHOD	20 mV MAX, 1 mA(DC OR 1000HZ)		60 mΩ MAX.			×	-	
INSULATION RESISTANCE	250 V DC.		100 MΩ MIN.			×	-	
VOLTAGE PROOF	300 V AC FOR 1 min.		NO FLASHOVER OR BREAKDOWN.			×	-	
MECHANICAL CHARACTERISTICS								
INSERTION AND WITHDRAWAL FORCES	MEASURED BY APPLICABLE CONNECTOR		INSERTION FORCE : 54.4 N MAX WITHDRAWAL FORCE : 6.8 N MIN			×	-	
MECHANICAL OPERATION	500 TIMES INSERTIONS AND EXTRACTIONS.		① CONTACT RESISTANCE: 60 mΩ MAX. ② NO DAMAGE, CRACK AND LOOSENESS OF PARTS.			×	-	
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.			×	-	
SHOCK	490 m/s ² , DURATION OF PULSE 11 ms AT 3 TIMES FOR 3 DIRECTIONS.					×	-	
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.			×	-	
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.			×	-	
DRY HEAT	EXPOSED AT 85 °C, 96 h.		① CONTACT RESISTANCE: 60 mΩ MAX. ② NO DAMAGE, CRACK AND LOOSENESS OF PART			×	-	
CORROSION SALT MIST	EXPOSED IN 5 % SALT WATER SPRAY FOR 48 h.		① CONTACT RESISTANCE: 60 mΩ MAX. ② NO HEAVY CORROSION.			×	-	
SULPHUR DIOXIDE	EXPOSED IN 10 PPM FOR 96 h. (TEST STANDARD: JEIDA-39)					×	-	
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 MAX.		NO DEFORMATION OF CASE OF EXCESSIVE LOOSENESS OF THE TERMINAL.			×	-	
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.			×	-	
△	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.						APPROVED	HS. OKAWA	06.10.17
Unless otherwise specified, refer to JIS C 5402						CHECKED	HS. OZAWA	06.10.17
Note QT: Qualification Test AT: Assurance Test X: Applicable Test						DESIGNED	K.Y. NAKAMURA	06.10.17
						DRAWN	AK. SUZUKAWA	06.10.17
DRAWING NO.		ELC4-151417-21						
HRS		SPECIFICATION SHEET		PART NO.		FX5-68S2A-DSA (71)		
HIROSE ELECTRIC CO., LTD.		CODE NO.		QL575-0108-0-71		△		
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