


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⁾	x	x		
VOLTAGE	100 V AC	OPERATING HUMIDITY RANGE	40 % TO 80 %	x	x		
CURRENT	0.5 A	STORAGE HUMIDITY RANGE	40 % TO 70 % ⁽²⁾	x	x		
SPECIFICATIONS							
ITEM	TEST METHOD			REQUIREMENTS			
GENERAL EXAMINATION		VISUALLY AND BY MEASURING INSTRUMENT.		ACCORDING TO DRAWING.			
MARKING	CONFIRMED VISUALLY.			x			
ELECTRICAL CHARACTERISTICS							
CONTACT RESISTANCE	100 mA (DC OR 1000 Hz).	50 mΩ MAX.		x	x		
CONTACT RESISTANCE MILLIVOLT LEVEL METHOD	20 mV MAX, 1 mA(DC OR 1000HZ)	60 mΩ MAX.		x	x		
INSULATION RESISTANCE	250 V DC.	100 MΩ MIN.		x	x		
VOLTAGE PROOF	300 V AC FOR 1 min.	NO FLASHOVER OR BREAKDOWN.		x	x		
MECHANICAL CHARACTERISTICS							
INSERTION AND WITHDRAWAL FORCES	MEASURED BY APPLICABLE CONNECTOR			INSERTION FORCE : 44.8 N MAX WITHDRAWAL FORCE : 5.6 N MIN		x	x
MECHANICAL OPERATION	500 TIMES INSERTIONS AND EXTRACTIONS.			① CONTACT RESISTANCE: 60 mΩ MAX. ② NO DAMAGE, CRACK AND LOOSENESS OF PARTS.		x	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	x
SHOCK	490 m/s ² , DURATION OF PULSE 11 ms AT 3 TIMES FOR 3 DIRECTIONS.			① CONTACT RESISTANCE: 60 mΩ MAX. ② INSULATION RESISTANCE: 100 MΩ MIN. ③ NO DAMAGE, CRACK AND LOOSENESS OF PARTS.		x	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	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	x
DRY HEAT	EXPOSED AT 85 °C, 96 h.			① CONTACT RESISTANCE: 60 mΩ MAX. ② NO DAMAGE, CRACK AND LOOSENESS OF PART		x	x
CORROSION SALT MIST	EXPOSED IN 5 % SALT WATER SPRAY FOR 48 h.			① CONTACT RESISTANCE: 60 mΩ MAX. ② NO HEAVY CORROSION.		x	x
SULPHUR DIOXIDE	EXPOSED IN 10 PPM FOR 96 h. (TEST STANDARD: JEIDA-39)			① CONTACT RESISTANCE: 60 mΩ MAX. ② NO HEAVY CORROSION.		x	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	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	x
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	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.	EL04-151420-21				
		SPECIFICATION SHEET		PART NO.	FX5-56S2A-DSAL (71)		
		HIROSE ELECTRIC CO., LTD.		CODE NO.	CL575-0127-5-71		
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