



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	200 V AC	OPERATING HUMIDITY RANGE	40 % TO 80 %.			×	×
CURRENT	1 A	STORAGE HUMIDITY RANGE	40 % TO 70 % ⁽²⁾				
SPECIFICATIONS							
ITEM	TEST METHOD	REQUIREMENTS		QT	AT		
CONSTRUCTION							
GENERAL EXAMINATION	VISUALLY AND BY MEASURING INSTRUMENT.	ACCORDING TO DRAWING.		×	×	×	×
MARKING	CONFIRMED VISUALLY.						
ELECTRIC CHARACTERISTICS							
CONTACT RESISTANCE	100 mA (DC OR 1000 Hz).	15 m Ω MAX.		×	-		
INSULATION RESISTANCE	500 V DC	1000 M Ω MIN.		×	-		
VOLTAGE PROOF	650 V AC FOR 1 min.	NO FLASHOVER OR BREAKDOWN.		×	-		
MECHANICAL CHARACTERISTICS							
CONTACT INSERTION AND EXTRACTION FORCES	\square 0.5 \pm 0.002mm BY STEEL GAUGE.	INSERTION FORCE: 2.45 N MAX. EXTRACTION FORCE: 0.25 N MIN.		×	-		
MECHANICAL OPERATION	100 TIMES INSERTIONS AND EXTRACTIONS.	①CONTACT RESISTANCE: 20 m Ω MAX. ②NO DAMAGE, CRACK AND LOOSENESS OF PARTS.		×	-		
VIBRATION	FREQUENCY 10 TO 55 Hz. AMPLITUDE : 1.5 mm. AT 2h FOR 3 DIRECTIONS.	①NO ELECTRICAL DISCONTINUITY OF 1 μ s. ②NO DAMAGE, CRACK AND LOOSENESS OF PARTS.		×	-		
SHOCK	490 ms ² , DURATION OF PULSE 11 ms AT 3 TIMES FOR 3 DIRECTIONS.			×	-		
ENVIRONMENTAL CHARACTERISTICS							
DAMP HEAT (STEADY STATE)	EXPOSED AT 40 \pm 2 °C, 90 ~ 95 %, 96 h.	①CONTACT RESISTANCE: 20 m Ω MAX. ②INSULATION RESISTANCE: 1000 M Ω MIN.		×	-		
RAPID CHANGE OF TEMPERATURE	TEMPERATURE: -65 \rightarrow +15 \sim +35 \rightarrow +125 \rightarrow +15 \sim +35 \rightarrow 30 \rightarrow 10 \sim 15 \rightarrow 30 \rightarrow 10 \sim 15 min. UNDER 5 CYCLES.	③NO DAMAGE, CRACK AND LOOSENESS OF PARTS.		×	-		
CORROSION SALT MIST	EXPOSED IN 5 % SALT WATER SPRAY FOR 48 h.	①CONTACT RESISTANCE: 20 m Ω MAX. ②NO 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 \pm 5 °C. FOR IMMERSION DURATION, 10 \pm 1 s. 2) SOLDERING IRONS : 350 °C FOR 3 s MAX.	NO DEFORMATION OF CASE OF EXCESSIVE LOOSENESS OF THE TERMINALS.		×	-		
SOLDERABILITY	SOLDERED AT SOLDER TEMPERATURE, 245 \pm 3 °C, FOR IMMERSION DURATION, 2 s.	A NEW UNIFORM COATING OF SOLDER SHALL COVER A MINIMUM OF 95 % OF THE SURFACE BEING IMMERSERD.		×	-		
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.		ELG4-081232-21			
HRS		SPECIFICATION SHEET		PART NO.	A3C-14DA-2DSA (71)		
		HIROSE ELECTRIC CO., LTD.		CODE NO.	CL621-0506-0-71		
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