



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>			×	×
VOLTAGE	200 V AC	OPERATING HUMIDITY RANGE	40 % TO 80 %.			×	×
CURRENT	1 A	STORAGE HUMIDITY RANGE	40 % TO 70 % <sup>(2)</sup>				
SPECIFICATIONS							
ITEM	TEST METHOD	REQUIREMENTS		QT	AT		
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 $\Omega$ MAX.		×		×	-
INSULATION RESISTANCE	500 V DC	1000 M $\Omega$ 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 $\Omega$ 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 $\mu$ s. ②NO DAMAGE, CRACK AND LOOSENESS OF PARTS.		×		×	-
SHOCK	490 ms <sup>2</sup> , 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 $\Omega$ MAX. ②INSULATION RESISTANCE: 1000 M $\Omega$ 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 $\Omega$ 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 <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.							
Unless otherwise specified, refer to MIL-STD-1344.							
Note QT: Qualification Test AT: Assurance Test X: Applicable Test		DRAWING NO.		ELG4-081235-21			
<b>HRS</b>		SPECIFICATION SHEET		PART NO.	A3C-20DA-2DSA (71)		
		HIROSE ELECTRIC CO., LTD.		CODE NO.	CL621-0509-8-71		
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