

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
RATING	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		VISUALLY AND BY MEASURING INSTRUMENT.		ACCORDING TO DRAWING.		x	x
MARKING		CONFIRMED VISUALLY.				x	x
ELECTRIC CHARACTERISTICS							
CONTACT RESISTANCE	100 mA (DC OR 1000 Hz).		15 mΩ MAX.			x	-
INSULATION RESISTANCE	500 V DC		1000 MΩ MIN.			x	-
VOLTAGE PROOF	650 V AC FOR 1 min.		NO FLASHOVER OR BREAKDOWN.			x	-
MECHANICAL CHARACTERISTICS							
CONTACT INSERTION AND EXTRACTION FORCES	□0.5±0.002mm BY STEEL GAUGE.		INSERTION FORCE: 2.45 N MAX. EXTRACTION FORCE: 0.24 N MIN.			x	-
MECHANICAL OPERATION	100 TIMES INSERTIONS AND EXTRACTIONS.		①CONTACT RESISTANCE: 20 mΩ MAX. ②NO DAMAGE, CRACK AND LOOSENESS OF PARTS.			x	-
VIBRATION	FREQUENCY 10 TO 55 Hz. AMPLITUDE : 1.5 mm. AT 2 h FOR 3 DIRECTIONS.		①NO ELECTRICAL DISCONTINUITY OF 1 μs. ②NO DAMAGE, CRACK AND LOOSENESS OF PARTS.			x	-
SHOCK	490 m/s ² , 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.		①CONTACT RESISTANCE: 20 mΩ MAX. ②INSULATION RESISTANCE: 1000 MΩ MIN. ③NO DAMAGE, CRACK AND LOOSENESS OF PARTS.			x	-
RAPID CHANGE OF TEMPERATURE	TEMPERATURE: -55 → +15 ~ +35 → +85 → +15 ~ +35 °C TIME 30 → 5 MAX → 30 → 5 MAX min. UNDER 5 CYCLES.					x	-
CORROSION SALT MIST	EXPOSED IN 5 % SALT WATER SPRAY FOR 48 h.		①CONTACT RESISTANCE: 20 mΩ MAX. ②NO HEAVY CORROSION.			x	-
SULPHUR DIOXIDE	EXPOSED IN 10 PPM FOR 96 h. (TEST STANDARD: JEIDA - 39)					x	-
RESISTANCE TO SOLDERING HEAT	1) REFLOW SOLDERING : 250 °C MAX, 220 °C MIN, FOR 60 s 2) SOLDERING IRON : 360 °C, FOR 5 s		NO DEFORMATION OF CASE OF EXCESSIVE LOOSENESS OF THE TERMINALS.			x	-
SOLDERABILITY	SOLDERED AT SOLDER TEMPERATURE, 245±3 °C, FOR IMMERSION DURATION, 3 s.		A NEW UNIFORM COATING OF SOLDER SHALL COVER A MINIMUM OF 95 % OF THE SURFACE BEING IMMersed.			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. Unless otherwise specified, refer to MIL-STD-1344.							
Note QT: Qualification Test AT: Assurance Test X: Applicable Test		DRAWING NO.		ELC4-082680-21			
HRS HIROSE ELECTRIC CO., LTD.		SPECIFICATION SHEET		PART NO.		A3A-20DA-2SV (71)	
		CODE NO.		QL621-1148-7-71		△ 1/1	
		APPROVED	HS. OKAMA			13.02.08	
		CHECKED	HT. YAMAGUCHI			13.02.08	
		DESIGNED	KJ. NISHIWAKI			13.02.08	
		DRAWN	OR. TAKESHIMA			13.02.08	