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In case of consideration for using Automotive equipment / device which demand high reliability, kindly contact our sales window correspondents.

COUNT	DESCRIPTION OF REVISIONS	BY	CHKD	DATE	COUNT	DESCRIPTION OF REVISIONS	BY	CHKD	DATE	
APPLICATION STANDARD										
RATING	OPERATING TEMPERATURE RANGE	-55 °C TO +85 °C			STORAGE TEMPERATURE RANGE	--- °C TO --- °C				
	VOLTAGE	200V AC			OPERATING HUMIDITY RANGE	--- % TO --- %				
	CURRENT	2 A			APPLICABLE CABLE	_____				
SPECIFICATIONS										
ITEM		TEST METHOD			REQUIREMENT			QT	AT	
CONSTRUCTION										
GENERAL EXAMINATION		VISUALLY AND BY MEASURING INSTRUMENT.			ACCORDING TO DRAWING			○	○	
MARKING		CONFIRMED VISUALLY						○	○	
ELECTRICAL CHARACTERISTICS										
CONTACT RESISTANCE		100 mA (DC OR 1000 Hz)			30 mΩ MAX.			※	○	-
CONTACT RESISTANCE MILLIVOLT LEVEL METHOD		mV MAX, mA (DC OR Hz)			mΩ MAX.				-	-
INSULATION RESISTANCE		500 V DC			1000 MΩ MIN.			○	-	
VOLTAGE PROOF		650 V AC FOR 1 min.			NO FLASHOVER OR BREAKDOWN			○	-	
MECHANICAL CHARACTERISTICS										
CONTACT INSERTION AND EXTRACTION FORCES		BY STEEL GAUGE.			INSERTION FORCE: N MAX. EXTRACTION FORCE: N MIN.			-	-	
INSERTION AND WITHDRAWAL FORCES		MEASURED BY APPLICABLE CONNECTOR.			INSERTION FORCE: 7.84 N MAX. WITHDRAWAL FORCE 0.49 N MIN.			○	-	
MECHANICAL OPERATION		100 TIMES INSERTION AND EXTRACTIONS.			1) CONTACT RESISTANCE: 40 mΩ MAX. ※ 2) NO DAMAGE, CRACK AND LOOSENESS OF PART.			○	-	
VIBRATION		FREQUENCY: 10 TO 55 Hz, AMPLITUDE: 1.52 mm, - m/s ² AT 2 h FOR 3 DIRECTIONS.			1) NO ELECTRICAL DISCONTINUITY OF 1 μs 2) CONTACT RESISTANCE: - mΩ MAX. 3) NO DAMAGE, CRACK AND LOOSENESS OF PART.			○	-	
SHOCK		490 m/s ² DURATION OF PULSE 11 ms AT 3 TIMES FOR 3 DIRECTIONS.			OF PART.			○	-	
ENVIRONMENTAL CHARACTERISTICS										
DAMP HEAT (STEADY STATE)		EXPOSED AT 40±2 °C, 90~95 %, 96 h.			1) CONTACT RESISTANCE: 40 mΩ MAX. ※ 2) INSULATION RESISTANCE: 1000 MΩ MIN.			○	-	
RAPID CHAGE OF TEMPERTURE		TEMPERTURE -55→+5~+35→+85→+5~+35 °C TIME 30 → 10~15 → 30 → 10~15 min. UNDER 5 CYCLES.			3) NO DAMAGE, CRACK AND LOOSENESS OF PART.			○	-	
DAMP HEAT,CYCLIC		EXPOSED AT TO °C, TO °C %,TOTAL CYCLES(h).			1) CONTACT RESISTANCE: mΩ MAX. 2) INSULATION RESISTANCE: MΩ MIN.(AT HIGH HUMIDITY) 3) INSULATION RESISTANCE: MΩ MIN.(AT DRY) 4) NO DAMAGE, CRACK AND LOOSENESS OF PART.			-	-	
DRY HEAT		EXPOSED AT °C, h.			1) CONTACT RESISTANCE: 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: 40 mΩ MAX. ※ 2) NO HEAVY CORROSION.			○	-	
HYDROGEN SULPHIDE		EXPOSED IN 3 PPM FOR 120 h. (TEST STANDARD:JEIDA-38)						○	-	
SULPHUR DIOXIDE		EXPOSED IN PPM FOR h. (TEST STANDARD:JEIDA-39)						-	-	
RESISTANCE TO SOLDERING HEAT		SOLDER TEMPERATURE, °C FOR IMMERSION,DURATION, s.(MIL-STD-202)			NO DEFORMATION OF CASE OF EXCESSIVE LOOSENESS OF THE TERMINAL.			-	-	
SOLDRABILITY		SOLDERED AT SOLDER TEMPERATURE, °C FOR IMMERSION DURATION, s.(MIL-STD-202)			A NEW UNIFORM COATING OF SOLDER SHALL COVER A MINIMUM OF 95 % OF THE SURFACE BEING IMMersed.			-	-	
REMARKS				DRAWN	DESIGNED	CHECKED	APPROVED	RELEASED		
CONTACT RESISTANCE WITH ※ MARK IS THE VALUE INCLUDING 2POINTS OF CONTACT.				J. Hirasawa	J. Hirasawa	H. Okawa	M. Yamaguchi			
UNLESS OTHERWISE SPECIFIED, REFER TO MIL-STD-1344				97.12.1	97.12.1	97.12.01	97.12.04			
NOTE QT: QUALIFICATION TEST AT: ASSURANCE TEST O: APPLICABLE TEST										
HRS HIROSE ELECTRIC CO.,LTD.				SPECIFICATION SHEET			PART NO. A3-SP(A)			
CODE NO.(OLD)		DRAWING NO.		CODE NO.		1		1		
CL		ELC4- 020728		CL 621 - 0180 - 4						

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