

Jun.1.2020 Copyright 2020 HIROSE ELECTRIC CO., LTD. All Rights Reserved.  
 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
△					△				
△					△				
<b>APPLICATION STANDARD</b>									
RATING	OPERATING TEMPERATURE RANGE	-55 °C TO 85 °C			STORAGE TEMPERATURE RANGE	-10 °C TO 60 °C			
	VOLTAGE	AC 50 V			OPERATING HUMIDITY RANGE	RELATIVE HUMIDITY : 95 % MAX (NO DEW CONDENSATION IS PERMITTED)			
	CURRENT	0.3 A							
<b>SPECIFICATIONS</b>									
ITEM		TEST METHOD			REQUIREMENT			QT	AT
<b>CONSTRUCTION</b>									
GENERAL EXAMINATION		VISUALLY AND BY MEASURING INSTRUMENT.			ACCORDING TO DRAWING			X	X
MARKING		CONFIRMED VISUALLY.						X	X
<b>ELECTRICAL CHARACTERISTICS</b>									
CONTACT RESISTANCE		100 mA (DC OR 1000 Hz).			60 mΩ MAX.			X	X
INSULATION RESISTANCE		100 V DC.			100 MΩ MIN.			X	-
VOLTAGE PROOF		150 V AC FOR 1 min.			NO FLASHOVER OR BREAKDOWN.			X	X
<b>MECHANICAL CHARACTERISTICS</b>									
INSERTION AND WITHDRAWAL FORCES		MEASURED BY APPLICABLE CONNECTOR.			INSERTION FORCE: 40.8 N MAX. WITHDRAWAL FORCE: 1.7 N MIN.			X	-
MECHANICAL OPERATION		50 TIMES INSERTION AND EXTRACTIONS.			1)CONTACT RESISTANCE: 70 mΩ MAX. 2) NO DAMAGE, CRACK AND LOOSENESS OF PART.			X	-
VIBRATION		FREQUENCY: 10 TO 55 Hz, SINGLE AMPLITUDE: 0.75 mm, - m/s <sup>2</sup> AT 10 CYCLES FOR 3 DIRECTIONS.			1)NO ELECTRICAL DISCONTINUITY OF 1 μs MIN. 2)NO DAMAGE, CRACK AND LOOSENESS OF PART.			X	-
SHOCK		490 m/s <sup>2</sup> DURATION OF PULSE 11 ms AT 3 TIMES FOR 3 DIRECTIONS.						X	-
<b>ENVIRONMENTAL CHARACTERISTICS</b>									
DAMP HEAT (STEADY STATE)		EXPOSED AT 40±2 °C, 90~95 %, 96 h.			1)CONTACT RESISTANCE: 70 mΩ MAX. 2)INSULATION RESISTANCE: 100 MΩ MIN.			X	-
RAPID CHAGE OF TEMPERTURE		TEMPERTURE -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 PART.			X	-
DRY HEAT		EXPOSED AT 85 °C, 96 h.			1)CONTACT RESISTANCE: 70 mΩ MAX.			X	-
COLD		EXPOSED AT -55 °C, 96 h.			2)NO DAMAGE, CRACK AND LOOSENESS OF PART.				
CORROSION SALT MIST		EXPOSED IN 5 % SALT WATER SPRAY FOR 48 h.			NO HEAVY CORROSION.			X	-
SULPHUR DIOXIDE		EXPOSED IN 10 PPM FOR 96 h. (TEST STANDARD:JIS C 0090)			1)CONTACT RESISTANCE: 70 mΩ MAX. 2)NO HEAVY CORROSION.			X	-
RESISTANCE TO SOLDERING HEAT		<p>REFLOW RECOMMENDED TEMPERATURE PROFILE            TO BE TESTED UNDER THE ABOVE CONDITIONS.</p>			NO MELTING OF RESIN WHICH AFFECTS THE PERFORMANCE OF COMPONENT.			X	-
SOLDRABILITY		SOLDERED AT SOLDER TEMPERATURE, 235 °C FOR IMMERSION DURATION, 2 s.			NO PINHOLE OR DEWETTING ON SOLDERED SURFACE.			X	-
REMARKS				DRAWN	DESIGNED	CHECKED	APPROVED	RELEASED	
				<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>		
UNLESS OTERWISE SPECIFIED, REFER TO JIS C 5402.				99.10.27	99.10.27	99.10.28	99.10.28		
NOTE QT: QUALIFICATION TEST AT: ASSURANCE TEST X: APPLICABLE TEST									
<b>HRS</b> HIROSE ELECTRIC CO.,LTD.				SPECIFICATION SHEET			PART NO.		
CODE NO.(OLD)				DRAWING NO.			CODE NO.		
CL				ELC4 - 152120 - 02			CL 573 - 0152 - 0 - 22		
							1		
							1		

TO  
PCK