

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
	VOLTAGE	AC 50 V	OPERATING HUMIDITY RANGE
	CURRENT	0.3 A	
		-10 °C TO 60 °C	
		RELATIVE HUMIDITY: 95 % MAX (NO DEW CONDENSATION IS PERMITTED)	

SPECIFICATIONS			
ITEM	TEST METHOD	REQUIREMENT	QT AT
CONSTRUCTION			
GENERAL EXAMINATION	VISUALLY AND BY MEASURING INSTRUMENT	ACCORDING TO DRAWING	X X
MARKING	CONFIRMED VISUALLY.		X X
ELECTRICAL CHARACTERISTICS			
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
MECHANICAL CHARACTERISTICS			
INSERTION AND WITHDRAWAL FORCE	MEASURED BY APPLICABLE CONNECTOR.	INSERTION FORCE: 86.4 N MAX. WITHDRAWAL FORCE: 3.6 N MIN.	X -
MECHANICAL OPERATION	50 TIMES INSERTION AND EXTRACTION.	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 ² WITH 10 CYCLES IN 3 DIRECTIONS	1) NO ELECTRICAL DISCONTINUITY OF 1 μs MIN. 2) NO DAMAGE, CRACK AND LOOSENESS OF PART.	X -
SHOCK	490 m/s ² DURATION OF PULSE 11 ms FOR 3 TIMES IN 3 DIRECTIONS.		X -
ENVIRONMENTAL CHARACTERISTICS			
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 CHANGE OF TEMPERATURE	TEMPERATURE -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	REFLOW: RECOMMENDED TEMPERATURE PROFILE <p>25°C (60 S) 150°C 160°C 240°C 5 S MAX 200°C (30 S) (20~30 S)</p> <p>TO BE TESTED UNDER THE ABOVE CONDITIONS</p>	NO MELTING OF RESIN WHICH AFFECTS THE PERFORMANCE OF COMPONENT.	X -
SOLDERABILITY	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
	J Takada	J Takada	M Sekida	T Yoshimura	
UNLESS OTHERWISE SPECIFIED, REFER TO JIS C 5402.		00.01.13	00.01.13	00.01.13	00.01.14

NOTE	QT: QUALIFICATION TEST	AT: ASSURANCE TEST	X: APPLICABLE TEST
HIROSE ELECTRIC CO., LTD.		SPECIFICATION SHEET	
CODE NO.(OLD)		PART NO.	
CL	ELC4 - 151990 - 01	FX10B - 144S - SV(21)	
DRAWING NO.		CODE NO.	
CL 570 - 0253 - 8 - 21		1	