

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
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**SPECIFICATIONS**

APPLICATION STANDARD	OPERATING TEMPERATURE RANGE	STORAGE TEMPERATURE RANGE	RELATIVE HUMIDITY (NO DEW CONDENSATION IS PERMITTED)
	-55 °C TO 85 °C		-10 °C TO 60 °C
	AC 50 V	OPERATING HUMIDITY RANGE	95 % MAX
	CURRENT 0.3 A		

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

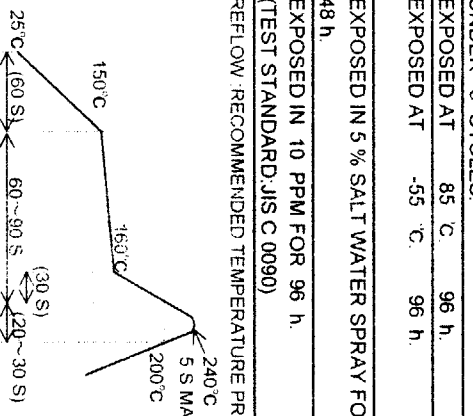
<b>ELECTRICAL CHARACTERISTICS</b>				
CONTACT RESISTANCE	100 mA (DC OR 1000 Hz)	60 mΩ MAX.	X	X
INSULATION RESISTANCE	100 V DC.	100 MΩ MIN.	X	-
VOLTAGE PROOF	150 V AC FOR 1 min.	NO FLASHOVER OR BREAKDOWN.	X	X

<b>MECHANICAL CHARACTERISTICS</b>				
INSERTION AND WITHDRAWAL 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 <sup>2</sup> 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 <sup>2</sup> DURATION OF PULSE 1 ms FOR 3 TIMES IN 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 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.	X	-
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	NO MELTING OF RESIN WHICH AFFECTS THE PERFORMANCE OF COMPONENT.	X	-



SOLDERABILITY	TO BE TESTED UNDER THE ABOVE CONDITIONS. SOLDERED AT SOLDER TEMPERATURE, 235 °C FOR IMMERSION DURATION, 2 s.	NO PINHOLE OR DEWETTING ON SOLDERED SURFACE.	X	-
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REMARKS	DRAWN	DESIGNED	CHECKED	APPROVED	RELEASED
UNLESS OTHERWISE SPECIFIED, REFER TO JIS C 5402.	<i>Y. Nakada</i>	<i>Y. Nakada</i>	<i>M. Sakaida</i>	<i>T. Yoshimura</i>	
NOTE QT: QUALIFICATION TEST AT ASSURANCE TEST X: APPLICABLE TEST	00.01.13	00.01.13	00.01.13	00.01.14	

<b>HRS</b> HIROSE ELECTRIC CO.,LTD.	<b>SPECIFICATION SHEET</b>	PART NO.	<b>FX10A - 144S - SV(21)</b>
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CODE NO.(OLD)	DRAWING NO.	CODE NO.	CL 570 - 0243 - 4 - 21
CL	ELC4 - 151986 - 01		

TO PCK