

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
Δ	DIS-F-002220(A)	H.S	07.9.29	Δ					
Δ	DIS-F-00526(B)	H.S	11.1.24	Δ					

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

SPECIFICATIONS

REQUIREMENT

ITEM	TEST METHOD	REQUIREMENT	QTY	AT
CONSTRUCTION				
GENERAL EXAMINATION	VISUALLY AND BY MEASURING INSTRUMENT. CONFIRMED VISUALLY.	ACCORDING TO DRAWING	X	X
MARKING			X	X

ELECTRICAL CHARACTERISTICS	TEST METHOD	REQUIREMENT	QTY	AT
CONTACT RESISTANCE	100 mA (DC OR 1000 Hz).	70 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	TEST METHOD	REQUIREMENT	QTY	AT
INSERTION AND WITHDRAWAL FORCES	MEASURED BY APPLICABLE CONNECTOR.	INSERTION FORCE: 60 N MAX. WITHDRAWAL FORCE: 2.5 N MIN.	X	-
MECHANICAL OPERATION	50 TIMES INSERTION AND EXTRactions.	1) CONTACT RESISTANCE: 80 mΩ MAX. 2) NO DAMAGE, CRACK AND LOOSENESS OF PART.	X	-

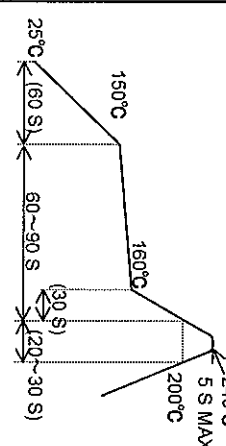
VIBRATION	TEST METHOD	REQUIREMENT	QTY	AT
	FREQUENCY: 10 TO 56 Hz, SINGLE AMPLITUDE: 0.75 mm, m/s^2 AT 10 CYCLES FOR 3 DIRECTIONS.	1) NO ELECTRICAL DISCONTINUITY OF 1 μs MIN. 2) NO DAMAGE, CRACK AND LOOSENESS OF PART.	X	-

SHOCK	TEST METHOD	REQUIREMENT	QTY	AT
	490 m/s^2 DURATION OF PULSE 11 ms AT 3 TIMES FOR 3 DIRECTIONS.	2) NO DAMAGE, CRACK AND LOOSENESS OF PART.	X	-

ENVIRONMENTAL CHARACTERISTICS	TEST METHOD	REQUIREMENT	QTY	AT
DAMP HEAT (STEADY STATE)	EXPOSED AT 40±2 °C, 90~95 %, 96 h.	1) CONTACT RESISTANCE: 80 mΩ MAX. 2) INSULATION RESISTANCE: 100 MΩ MIN. 3) NO DAMAGE, CRACK AND LOOSENESS OF PART.	X	-
RAPID CHANGE OF TEMPERATURE	TEMPERATURE -55→15~35→ 85→15~35°C TIME 30→ 2~ 3→ 30→ 2~ 3 min. UNDER 5 CYCLES.		X	-
DRY HEAT	EXPOSED AT 85 °C, 96 h. EXPOSED AT -55 °C, 96 h.	1) CONTACT RESISTANCE: 80 mΩ MAX. 2) NO DAMAGE, CRACK AND LOOSENESS OF PART.	X	-

CORROSION	TEST METHOD	REQUIREMENT	QTY	AT
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: 80 mΩ MAX. 2) NO HEAVY CORROSION.	X	-

RESISTANCE TO SOLDERING HEAT	TEST METHOD	REQUIREMENT	QTY	AT
	REFLOW : RECOMMENDED TEMPERATURE PROFILE	NO MELTING OF RESIN WHICH AFFECTS THE PERFORMANCE OF COMPONENT.	X	-



SOLDERABILITY	TEST METHOD	REQUIREMENT	QTY	AT
	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	-

REMARKS	DRAWN	DESIGNED	CHECKED	APPROVED	RELEASED
UNLESS OTHERWISE SPECIFIED, REFER TO JIS C 5402.	<i>M. Takekawa</i>	<i>M. Takekawa</i>	<i>S. Sakai</i>	<i>T. Yoshimura</i>	
NOTE QTY. QUALIFICATION TEST AT ASSURANCE TEST X APPLICABLE TEST	00.01.15	00.01.15	00.01.17	00.01.17	

HRS	HIROSE ELECTRIC CO., LTD.	SPECIFICATION SHEET	PART NO.	FX11A - 100S - SV (21)
CODE NO. (OLD)	DRAWING NO.	CODE NO.		
CL	ELC4 - 152641 - 01	CL 573 - 0743 - 6 - 21		
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