

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

APPLICABLE STANDARD		TEST METHOD		REQUIREMENTS		QT	AT
RATING	OPERATING TEMPERATURE RANGE	-55 °C TO 85 °C	STORAGE TEMPERATURE RANGE	-10 °C TO 60 °C (3)			
	VOLTAGE	100 V AC	OPERATING HUMIDITY RANGE	40 % TO 80 %			
	CURRENT	0.4 A	STORAGE HUMIDITY RANGE	40 % TO 70 % (3)			
SPECIFICATIONS							
ITEM	TEST METHOD		REQUIREMENTS		QT	AT	
GENERAL EXAMINATION		VISUALLY AND BY MEASURING INSTRUMENT.	ACCORDING TO DRAWING.		x	x	
MARKING		CONFIRMED VISUALLY.			x	x	
ELECTRIC CHARACTERISTICS							
CONTACT RESISTANCE	100 mA (DC OR 1000 Hz).	80 mΩ MAX. (1)	x				
CONTACT RESISTANCE MILLIVOLT LEVEL METHOD	20 mV MAX, 1 mA(DC OR 1000Hz)	100 mΩ MAX. (2)	x				
INSULATION RESISTANCE	250 V DC.	100 MΩ MIN.	x				
VOLTAGE PROOF	300 V AC FOR 1 min.	NO FLASHOVER OR BREAKDOWN.	x				
MECHANICAL CHARACTERISTICS							
MECHANICAL OPERATION	50 TIMES INSERTIONS AND EXTRACTIONS.		① CONTACT RESISTANCE: 100 mΩ MAX. (2) ② NO DAMAGE, CRACK AND LOOSENESS OF PARTS.		x		
VIBRATION	FREQUENCY 10 TO 55 Hz, AMPLITUDE : 1.5 mm, AT 2 h FOR 3 DIRECTION.		① NO ELECTRICAL DISCONTINUITY OF 1 μs. ② CONTACT RESISTANCE: 100 mΩ MAX. (2) ③ NO DAMAGE, CRACK AND LOOSENESS OF PARTS.		x		
SHOCK	490 m/s ² , DURATION OF PULSE 11 ms AT 3 TIMES FOR 3 DIRECTIONS.				x		
ENVIRONMENTAL CHARACTERISTICS							
DAMP HEAT (STEADY STATE)	EXPOSED AT 40±2 °C, 90 ~ 95 %, 96 h.	① CONTACT RESISTANCE: 100 mΩ MAX. (2) ② INSULATION RESISTANCE: 100 MΩ MIN. ③ NO DAMAGE, CRACK AND LOOSENESS OF PARTS.		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			
CORROSION SALT MIST	EXPOSED IN 5 % SALT WATER SPRAY FOR 48 h.	① CONTACT RESISTANCE: 100 mΩ MAX. (2) ② NO HEAVY CORROSION.		x			
HYDROGEN SULPHIDE	EXPOSED IN 3 PPM FOR 96 h. (TEST STANDARD: JEIDA-A-38)			x			
RESISTANCE TO SOLDERING HEAT	1) REFLOW SOLDERING: 250 °C MAX, : 220 °C MIN, FOR 60 s 2) SOLDERING IRONS : 360 °C, FOR 5 s	NO DEFORMATION OF CASE OF EXCESSIVE LOOSENESS OF THE TERMINALS.		x			
SOLDERABILITY	SOLDERED AT SOLDER TEMPERATURE, 240 ± 3°C, FOR IMMERSION DURATION, 3 s.	A NEW UNIFORM COATING OF SOLDER SHALL COVER A MINIMUM OF 95 % OF THE SURFACE BEING IMMersed.		x			
COUNT	DESCRIPTION OF REVISIONS	DESIGNED	CHECKED	DATE			
Δ							
REMARK							
(1) THIS CONNECTOR'S INITIAL CONTACT RESISTANCE SHALL BE 80 mΩ, BECAUSE OF THE BULK RESISTANCE OF STACKING HEIGHT 16 mm TYPE.				APPROVED	HS. OKAWA	11.03.07	
(2) AFTER TEST, THE CHANGE OF THE CONTACT RESISTANCE SHALL BE 20 mΩ MAX.				CHECKED	HT. YAMAGUCHI	11.03.07	
(3) THIS STORAGE INDICATES A LONG-TERM STORAGE STATE FOR THE UNUSED PRODUCT BEFORE THE BOARD MOUNTED.				DESIGNED	SY. KAMIGA	11.03.07	
Unless otherwise specified, refer to JIS C 5402.				DRAWN	HK. SUMADORI	11.03.07	
Note QT: Qualification Test AT: Assurance Test X: Applicable Test		DRAWING NO.	ELC4-150821-21				
HRS		SPECIFICATION SHEET		PART NO.		FX8C-60P-SV (91)	
		HIROSE ELECTRIC CO., LTD.		CODE NO.		QL578-0501-9-91	
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