

COUNT	DESCRIPTION OF REVISIONS	BY	CHKD	DATE	COUNT	DESCRIPTION OF REVISIONS	BY	CHKD	DATE
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APPLICABLE STANDARD				
RATING	OPERATING TEMPERATURE RANGE	-55 °C TO 85 °C ⁽¹⁾	STORAGE TEMPERATURE RANGE	-10 °C TO 60 °C ⁽²⁾
	VOLTAGE	100 V AC	OPERATING HUMIDITY RANGE	40 % TO 80 %
	CURRENT	0.5 A	STORAGE HUMIDITY RANGE	40 % TO 70 % ⁽²⁾

SPECIFICATIONS

ITEM	TEST METHOD	REQUIREMENTS	QT	AT
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CONSTRUCTION

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).	50 mΩ MAX.	X	
CONTACT RESISTANCE MILLIVOLT LEVEL METHOD	20 mV MAX, 1 mA(DC OR 1000Hz)	60 mΩ MAX.	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	500 TIMES INSERTIONS AND EXTRACTIONS.	① CONTACT RESISTANCE: 60 mΩ MAX. ② NO DAMAGE, CRACK AND LOOSENESS OF PARTS.	X	
VIBRATION	FREQUENCY 10 TO 55 Hz, AMPLITUDE : 0.75 mm, FOR 10 CYCLES IN 3 DIRECTIONS.	① NO ELECTRICAL DISCONTINUITY OF 1 μs. ② NO DAMAGE, CRACK AND LOOSENESS OF PARTS.	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: 60 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 PARTS.	X	
DRY HEAT	EXPOSED AT 85 °C, 96 h.	① CONTACT RESISTANCE: 60 mΩ MAX. ② NO DAMAGE, CRACK AND LOOSENESS OF PART	X	
CORROSION SALT MIST	EXPOSED IN 5 % SALT WATER SPRAY FOR 48 h.	① CONTACT RESISTANCE: 60 mΩ MAX. ② NO HEAVY CORROSION.	X	
SULPHUR DIOXIDE	EXPOSED IN 10 PPM FOR 96 h. (TEST STANDARD: JEIDA-38)		X	
RESISTANCE TO SOLDERING HEAT	1)SOLDER TEMPERATURE : 260±5°C FOR IMMERSION,DURATION,10±1s. 2) SOLDERING IRONS : 360°C FOR 5 s MAX.	NO DEFORMATION OF CASE OF EXCESSIVE LOOSENESS OF THE TERMINAL.	X	
SOLDERABILITY	SOLDERED AT SOLDER TEMPERATURE 240±5°C FOR IMMERSION DURATION, 3 s.	A NEW UNIFORM COATING OF SOLDER SHALL OVER A MINIMUM OF 95 % OF THE SURFACE BEING IMMersed.	X	

REMARKS	DRAWN	DESIGNED	CHECKED	APPROVED	RELEASED
1)TEMPERATURE RISE INCLUDED WHEN ENERGIZED. 2)THIS STORAGE INDICATES A LONG-TERM STORAGE STATE FOR THE UNUSED PRODUCT BEFORE THE BOARD MOUNTED.	<i>K. Doi</i> 05.02.14	<i>K. Doi</i> 05.02.14	<i>K. Ogawa</i> 05.02.14	<i>H. Kawa</i> 05.02.14	

Unless otherwise specified, refer to JIS C 5402.

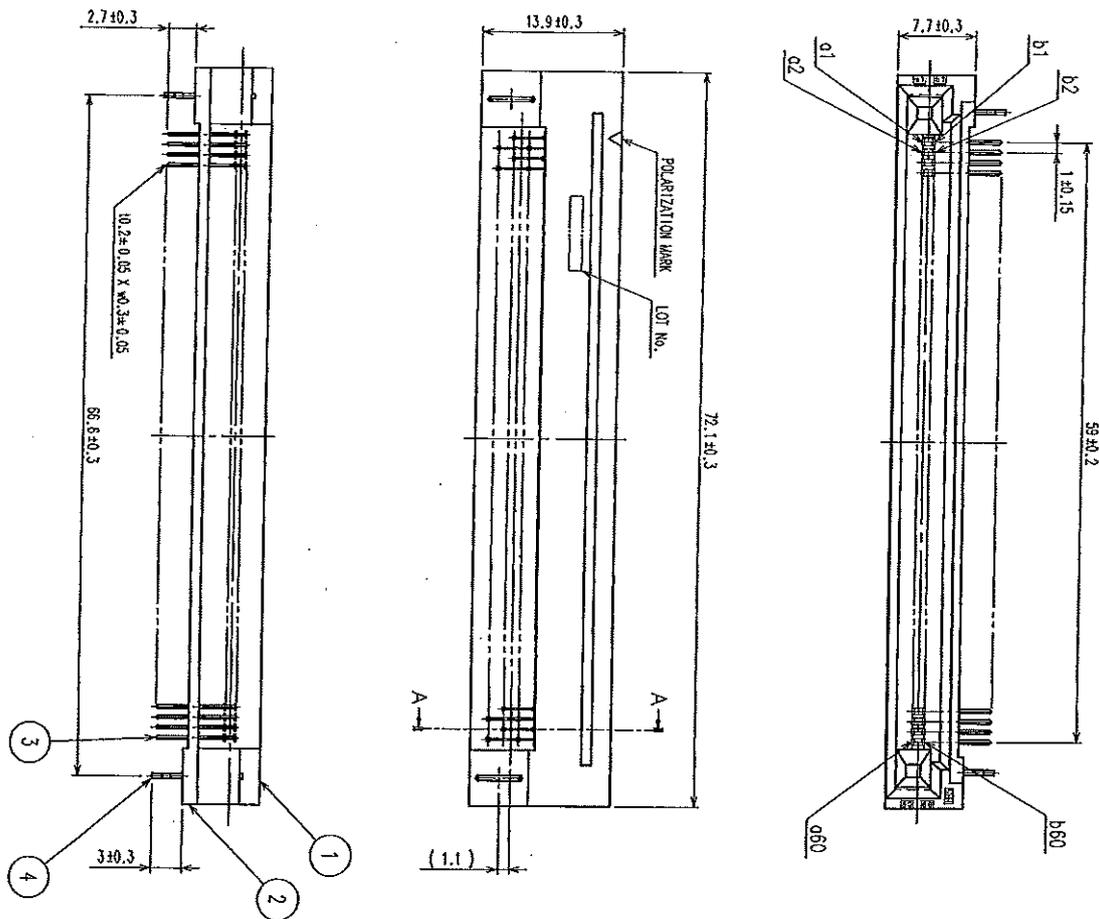
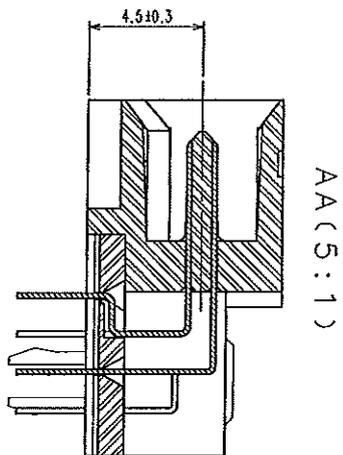
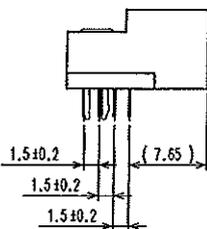
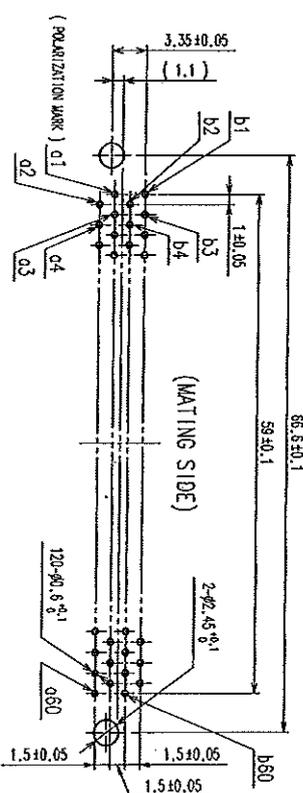
Note QT:Qualification Test AT:Assurance Test X:Applicable Test

HRS HIROSE ELECTRIC CO., LTD.	SPECIFICATION SHEET	PART NO. FX5M1-120P-DSL(70)
CODE NO.(OLD) CL	DRAWING NO. ELC4 - 154776 - 20	CODE NO. CL 575 - 1014 - 4 - 70



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RECOMMENDED PCB HOLE PATTERN (MOUNTING SIDE)
 APPLICABLE BOARD THICKNESS, 1.6



NOTE THE DIMENSIONS IN PARENTHESES ARE FOR REFERENCE.

NO.	MATERIAL	FINISH, REMARKS	NO.	MATERIAL	FINISH, REMARKS
4	PHOSPHOR BRONZE	TIN 3μm min.	3	BRASS	CONTACT AREA: GOLD 0.1μm min. LEAD AREA: TIN 1.2μm min. UNDER PLATING: NICKEL 1μm min.
1, 2	PET	BLACK UL94V-0			

SCALE: 2:1
 UNITS: MM

DRAWING NO. EDC3-154776-20
 PART NO. FXSM1-120P-DSL (70)

DESIGNED: *R. Soc*
 CHECKED: *R. Soc*
 APPROVED: *R. Soc*

DATE: 05-02-14

HRS HINGEE ELECTRIC CO., LTD

CODE NO. CL575-1014-4-70