

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

ELECTRICAL 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

INSERTION AND WITHDRAWAL FORCES	MEASURED BY APPLICABLE CONNECTOR	INSERTION FORCE : 80 N MAX WITHDRAWAL FORCE : 10 N MIN	x	-
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 AT 3 TIMES FOR 3 DIRECTIONS.		x	-

ENVIRONMENTAL CHARACTERISTICS

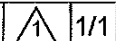
DAMP HEAT (STEADY STATE)	EXPOSED AT 40±2 °C, 90 ~ 95 %, 96 h.	① CONTACT RESISTANCE: 60 mΩ MAX. ② INSULATION RESISTANCE: 100 MΩ MIN.	x	-
RAPID CHANGE OF TEMPERATURE	TEMPERATURE-55→+15~+35→+85→+15~+35°C TIME 30 → 2~3 → 30 → 2~3 min UNDER 5 CYCLES.	③ NO DAMAGE, CRACK AND LOOSENESS OF PARTS.	x	-
DRY HEAT	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	-
SOLDRABILITY	SOLDERED AT SOLDER TEMPERATURE 240±5°C FOR IMMERSION DURATION, 3 s. Δ	A NEW UNIFORM COATING OF SOLDER SHALL OVER A MINIMUM OF 95 % OF THE SURFACE BEING IMMERSED.	x	-

COUNT	DESCRIPTION OF REVISIONS	DESIGNED	CHECKED	DATE
△	DIS-F-002021	KT. D01	HS. OZAWA	07.06.08

REMARKS (1)TEMPERATURE RISE INCLUDED WHEN ENERGIZED. (2)THIS STORAGE INDICATES A LONG-TERM STORAGE STATE FOR THE UNUSED PRODUCT BEFORE THE BOARD MOUNTED. Unless otherwise specified, refer to JIS C 5402.	APPROVED	HS. OKAWA	04.03.25
	CHECKED	HT. YAMAGUCHI	04.03.25
	DESIGNED	KT. D01	04.03.25
	DRAWN	KT. D01	04.03.25

Note QT:Qualification Test AT:Assurance Test X:Applicable Test	DRAWING NO.	ELC4-154129-20
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HS	SPECIFICATION SHEET	PART NO.	FX5M1-100S-DSAL (70)
	HIROSE ELECTRIC CO., LTD.	CODE NO.	CL575-1012-9-70

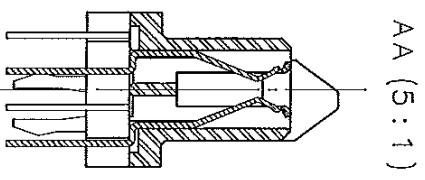
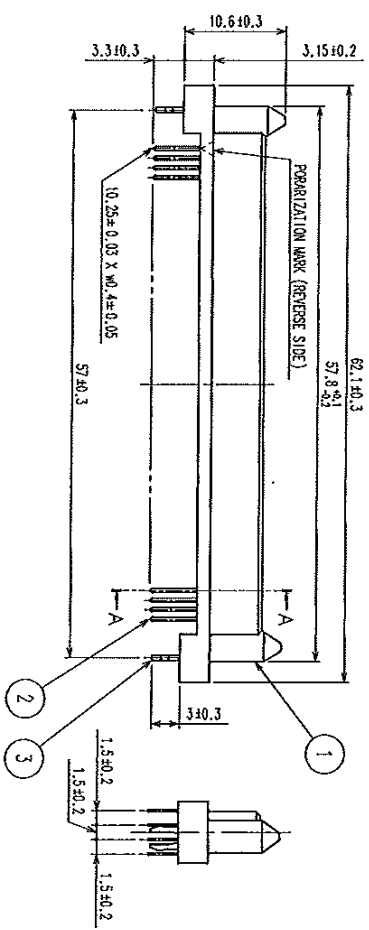
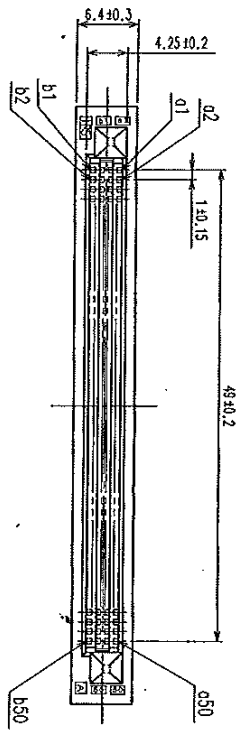
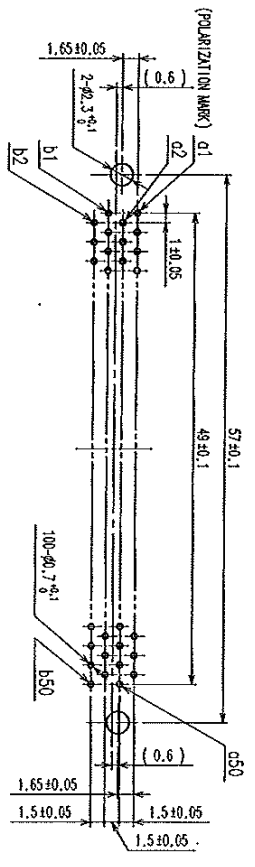


FORM HD0011-2-1

TO

NO.	DATE	BY	DESCRIPTION OF REVISIONS

RECOMMENDED POB 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
3	PHOSPHOR BRONZE	TIN 3μm min.	2	PHOSPHOR BRONZE	CONTACT AREA : GOLD 0.1μm min. LEAD AREA : TIN 1.2μm min.
1	PBT	BLACK US94V-0			UNDER PLATING : NICKEL 1μm min.

CODE NO. (OLD)	CL	DRAWN	CHECKED	APPROVED	RELEASED
		<i>R. Saito</i>	<i>R. Saito</i>	<i>H. Kawamura</i>	

SCALE	DRAWING NO.	PART NO.	CODE NO.
2 : 1	EDC3-154129-20	FX5M1-100S-DSAL (70)	CL575-1012-9-70

TO	
PCK	