

APPLICABLE STANDARD					
RATING	OPERATING TEMPERATURE RANGE	-55 °C TO 85 °C	STORAGE TEMPERATURE RANGE	-40 °C TO 60 °C ⁽¹⁾	
	VOLTAGE	50 V AC	OPERATING HUMIDITY RANGE	RELATIVE HUMIDITY 95 % RH MAX. ⁽²⁾	
	STORAGE HUMIDITY RANGE	40 % TO 70 % ⁽¹⁾			
	CURRENT	REFER TO FX10-168pin DERATING CURVES FROM TEST REPORTS TR570E-20587			
SPECIFICATIONS					
ITEM	TEST METHOD		REQUIREMENTS	QT	AT
CONSTRUCTION					
GENERAL EXAMINATION	VISUAL AND WITH MEASURING INSTRUMENT.		ACCORDING TO DRAWING.	x	x
MARKING	CONFIRM VISUALLY.			x	x
ELECTRIC CHARACTERISTICS					
CONTACT RESISTANCE [EIA-364-23]	100 mA and 20 mv OPEN CIRCUIT MAX.		60 mΩ MAX.	x	—
INSULATION RESISTANCE [EIA-364-21]	100 V DC.		100 MΩ MIN.	x	—
VOLTAGE PROOF [EIA-364-20]	150 V AC FOR 1 MINUTE.		NO FLASHOVER OR BREAKDOWN.	x	x
MECHANICAL CHARACTERISTICS					
INSERTION AND WITHDRAWAL FORCES [EIA-364-13]	MEASURED BY APPLICABLE CONNECTORS.		INSERTION FORCE: 100.8 N MAX. WITHDRAWAL FORCE: 4.2 N MIN.	x	—
MECHANICAL OPERATION [EIA-364-09]	50 TIMES INSERTIONS AND EXTRACTION.		① CONTACT RESISTANCE CHANGE: 10 mΩ OR LESS ② NO DAMAGE, CRACK AND LOOSENESS OF PARTS.	x	—
RANDOM VIBRATION [EIA-364-28]	FREQUENCY: 20 TO 500 Hz POWER SPECTRAL DENSITY: 0.02 G ² /Hz OVERALL rms G: 3.1 Grms FOR 15 MINUTES IN THREE DIRECTIONS.		1) NO ELECTRICAL DISCONTINUITY OF 1μs OR MORE. 2) NO DAMAGE, CRACK OR LOOSENESS OF PARTS.	x	—
SHOCK [EIA-364-27]	490 m/s ² , DURATION OF PULSE: 11 ms 3 EACH DIRECTION, 3 AXIS.			x	—
ENVIRONMENTAL CHARACTERISTICS					
THERMAL SHOCK [EIA-364-32]	TEMPERATURE: -55 → 15 ~ 35 → 85 → 15 ~ 35 °C TIME: 30 → 5 → 30 → 5 min. UNDER 10 CYCLES		1) CONTACT RESISTANCE CHANGE: 10 mΩ OR LESS 2) NO DAMAGE, CRACK OR LOOSENESS OF PARTS.	x	—
CYCLIC TEMPERATURE AND HUMIDITY [EIA-364-31]	@ 25 °C, 80% RH: 60 MIN DWELL TIME 30 MIN RAMP TIME @ 65 °C, 50% RH: 60 MIN DWELL TIME UNDER 24 CYCLES.			x	—
DRY HEAT [EIA-364-17]	EXPOSED AT 105 °C, 1000 hr.			x	—
MIXED FLOWING GAS [EIA-364-65]	EXPOSED AT 30 °C, 70% Cl ₂ : 10 ppb, NO ₂ : 200 ppb, H ₂ S : 10 ppb, SO ₂ : 100 ppb UNMATED 7 DAYS, MATED 7 DAYS.		1) CONTACT RESISTANCE CHANGE: 10 mΩ OR LESS 2) NO HEAVY CORROSION.	x	—
REFLOW TEMPERATURE CONDITION [IPC / JEDEC J-STD-020C]	REFLOW PEAK TEMPERATURE : 260 °C AT CONNETOR SURFACE.		NO DEFORMATION OF CASE OF EXCESSIVE LOOSENESS OF THE TERMINAL.	x	—
COUNT	DESCRIPTION OF REVISIONS		DESIGNED	CHECKED	DATE
△					
REMARK ⁽¹⁾ THIS STORAGE INDICATES A LONG-TERM STORAGE STATE FOR THE UNUSED PRODUCT BEFORE THE BOARD MOUNTED. ⁽²⁾ NO DEW CONDENSATION IS PERMITTED.			APPROVED	HS. OKAWA	11. 01. 24
			CHECKED	HT. YAMAGUCHI	11. 01. 21
			DESIGNED	AH. EDASHIGE	11. 01. 21
			DRAWN	AH. EDASHIGE	11. 01. 21
Note QT:Qualification Test AT:Assurance Test X:Applicable Test			DRAWING NO.		ELC4-151971-23
HRS	SPECIFICATION SHEET		PART NO.	FX10A-168P-SV1 (83)	
	HIROSE ELECTRIC CO., LTD.		CODE NO.	CL570-0144-2-83	
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