

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-20588				
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. 03. 24
				CHECKED	KI. HIROKAWA	11. 03. 24
				DESIGNED	DK. AIMOTO	11. 03. 23
				DRAWN	DK. AIMOTO	11. 03. 23
Note QT:Qualification Test AT:Assurance Test X:Applicable Test				DRAWING NO.		ELC4-330879-01
HRS	SPECIFICATION SHEET			PART NO.	FX10A-168P-SV2 (93)	
	HIROSE ELECTRIC CO., LTD.			CODE NO.	CL570-0302-1-93	
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