


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

APPLICABLE STANDARD		OPERATING TEMPERATURE RANGE		STORAGE TEMPERATURE RANGE	
		-55 °C TO 85 °C		-40 °C TO 60 °C <sup>(1)</sup>	
RATING		VOLTAGE		OPERATING HUMIDITY RANGE	
		50 V AC			
STORAGE HUMIDITY RANGE		40 % TO 70 % <sup>(1)</sup>		RELATIVE HUMIDITY 95 % RH MAX. <sup>(2)</sup>	
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	100 mA and 20 mv OPEN CIRCUIT MAX.	60 mΩ MAX.	x	-	
[EIA-364-23]					
INSULATION RESISTANCE	100 V DC.	100 MΩ MIN.	x	-	
[EIA-364-21]					
VOLTAGE PROOF	150 V AC FOR 1 MINUTE.	NO FLASHOVER OR BREAKDOWN.	x	x	
[EIA-364-20]					
MECHANICAL CHARACTERISTICS					
INSERTION AND WITHDRAWAL FORCES	MEASURED BY APPLICABLE CONNECTORS.	INSERTION FORCE: 100.8 N MAX. WITHDRAWAL FORCE: 4.2 N MIN.	x	-	
[EIA-364-13]					
MECHANICAL OPERATION	50 TIMES INSERTIONS AND EXTRACTION.	① CONTACT RESISTANCE CHANGE: 10 mΩ OR LESS ② NO DAMAGE, CRACK AND LOOSENESS OF PARTS.	x	-	
[EIA-364-09]					
RANDOM VIBRATION	FREQUENCY: 20 TO 500 Hz POWER SPECTRAL DENSITY: 0.02 G <sup>2</sup> /Hz OVERALL ms 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	-	
[EIA-364-28]					
SHOCK	490 m/s <sup>2</sup> , DURATION OF PULSE: 11 ms 3 EACH DIRECTION, 3 AXIS.		x	-	
[EIA-364-27]					
ENVIRONMENTAL CHARACTERISTICS					
THERMAL SHOCK	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	-	
[EIA-364-32]					
CYCLIC TEMPERATURE AND HUMIDITY	@ 25 °C, 80% RH: 60 MIN DWELL TIME 30 MIN RAMP TIME @ 65 °C, 50% RH: 60 MIN DWELL TIME UNDER 24 CYCLES.		x	-	
[EIA-364-31]					
DRY HEAT	EXPOSED AT 105 °C, 1000 hr.		x	-	
[EIA-364-17]					
MIXED FLOWING GAS	EXPOSED AT 30 °C, 70% Cl <sub>2</sub> : 10 ppb, NO <sub>2</sub> : 200 ppb, H <sub>2</sub> S: 10 ppb, SO <sub>2</sub> : 100 ppb UNMATED 7 DAYS, MATED 7 DAYS.	① CONTACT RESISTANCE CHANGE: 10 mΩ OR LESS ② NO HEAVY CORROSION.	x	-	
[EIA-364-65]					
REFLOW TEMPERATURE CONDITION	REFLOW PEAK TEMPERATURE: 260 °C AT CONNECTOR SURFACE.	NO DEFORMATION OF CASE OF EXCESSIVE LOOSENESS OF THE TERMINAL.	x	-	
[IPC / JEDEC J-STD-020C]					
COUNT	DESCRIPTION OF REVISIONS	DESIGNED	CHECKED	DATE	
△					
REMARK <sup>(1)</sup> THIS STORAGE INDICATES A LONG-TERM STORAGE STATE FOR THE UNUSED PRODUCT BEFORE THE BOARD MOUNTED. <sup>(2)</sup> NO DEW CONDENSATION IS PERMITTED.					
Note QT:Qualification Test AT:Assurance Test X:Applicable Test		DRAWING NO.	ELC4-151971-85		
		SPECIFICATION SHEET		PART NO.	FX10A-168P-SV1 (85)
		HIROSE ELECTRIC CO., LTD.		CODE NO.	CL570-0144-2-85
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