

APPLICABLE STANDARD				
Rating	Operating Temperature Range	-55 °C to 85 °C <sup>(1)</sup>	Storage Temperature Range	-10 °C to 60 °C <sup>(2)</sup>
	Voltage	50 V AC	Storage Humidity Range	Relative humidity 85% max (Not dewed)
	Current	0.7 A	Operating Humidity Range	

### SPECIFICATIONS

ITEM	TEST METHOD	REQUIREMENTS	QT	AT
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<b>CONSTRUCTION</b>				
General Examination	Visually and by measuring instrument.	According to drawing.	×	×
Marking	Confirmed visually.		×	×

<b>ELECTRIC CHARACTERISTICS</b>				
Contact Resistance	100 mA(DC or 1000Hz)	70mΩ MAX.	×	—
Insulation Resistance	100 V DC.	100 MΩ MIN.	×	—
Voltage Proof	150 V AC for 1 min.	No flashover or breakdown.	×	×

<b>MECHANICAL CHARACTERISTICS</b>				
Insertion and Withdrawal Forces	Measured by applicable connector.	Insertion Force: 42.5 N MAX. Withdrawal Force: 4.25 N MIN.	×	—
Mechanical Operation	50 times insertions and extractions.	① Contact Resistance : 80mΩ MAX. ② No damage, crack and looseness of parts.	×	—
Vibration	Frequency 10 to 55 to 10Hz, approx 5min Single amplitude : 0.75 mm, 10 cycles for 3 axial directions.	① No electrical discontinuity of 1 μs. ② No damage, crack and looseness of parts.	×	—
Shock	490 m/s <sup>2</sup> , duration of pulse 11 ms at 3 times for 3 both axial directions.		×	—

<b>ENVIRONMENTAL CHARACTERISTICS</b>				
Damp Heat (Steady state)	Exposed at 40±2 °C, 90 ~ 95 %, 96 h.	① Contact Resistance : 80mΩ MAX. ② Insulation Resistance:100 MΩ MIN.	×	—
Rapid Change of Temperature	Temperature -55 → +85 °C Time 30 → 30 min. under 5 cycles. (Relocation time to chamber : within 2~3 MIN)	③ No damage, crack and looseness of parts.	×	—
Cold	Exposed at -55°C, 96 h	① Contact Resistance : 80mΩ ② No damage, crack and looseness of parts.	×	—
Dry Heat	Exposed at 85°C, 96 h		×	—
Sulfur Dioxide	Exposed at 25±2°C, 75±5%RH, 25 PPM for 96 h. (Test standard: JIS C 60068)	① No defect such as corrosion which impairs the function of connector. ② Contact Resistance : 80mΩ	×	—
Resistance to Soldering Heat	1)Reflow soldering : Peak TMP : 260°C MAX Reflow TMP: 220°C MIN for 60sec 2) Soldering irons : 360°C MAX. for 5 sec.	No deformation of case of excessive looseness of the terminal.	×	—
Solderability	Soldered at solder temperature 245±3°C for immersion duration, 3 sec.	A new uniform coating of solder shall cover a minimum of 95 % of the surface being immersed.	×	—

	COUNT	DESCRIPTION OF REVISIONS	DESIGNED	CHECKED	DATE
△					

<b>REMARKS</b> <sup>(1)</sup> Include temperature rise caused by current-carrying. <sup>(2)</sup> "STORAGE" means a long-term storage state for the unused product before assembly to PCB.  Unless otherwise specified, refer to JIS-C-5402.	APPROVED	HS. OKAWA	14. 09. 30
	CHECKED	KN. SHIBUYA	14. 09. 30
	DESIGNED	AH. EDASHIGE	14. 09. 30
	DRAWN	AH. EDASHIGE	14. 09. 30

Note QT:Qualification Test AT:Assurance Test X:Applicable Test	DRAWING NO.	ELC4-352601-00
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<b>HRS</b>	SPECIFICATION SHEET	PART NO.	FX22-50S-0. 5SH	
	HIROSE ELECTRIC CO., LTD.	CODE NO.	CL572-3101-9-00	△ 1/1

