

APPLICABLE STANDARD					
Rating	Operating Temperature Range	-55 °C to 85 °C ⁽¹⁾	Storage Temperature Range	-10 °C to 60 °C ⁽²⁾	
	Voltage	50 V AC	Storage Humidity Range	Relative humidity 85% max (Not dewed)	
	Current	0.5 A	Operating Humidity Range		
SPECIFICATIONS					
ITEM	TEST METHOD		REQUIREMENTS	QT	AT
CONSTRUCTION					
General Examination	Visually and by measuring instrument.		According to drawing.	x	x
Marking	Confirmed visually.			x	x
ELECTRIC CHARACTERISTICS					
Contact Resistance	100 mA(DC or 1000Hz)		70 mΩ MAX.	x	—
Insulation Resistance	100 V DC.		100 MΩ MIN.	x	—
Voltage Proof	150 V AC for 1 min.		No flashover or breakdown.	x	x
MECHANICAL CHARACTERISTICS					
Insertion And Withdrawal Forces	Measured by applicable connector.		Insertion Force: 14 N MAX. Withdrawal Force: 1.8 N MIN.	x	—
Mechanical Operation	50 times insertions and extractions.		① Contact Resistance: Variation from initial value 20 mΩ or less. ② No damage, crack and looseness of parts.	x	—
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.	x	—
Shock	490 m/s ² , duration of pulse 11 ms at 3 times for 3 both axial directions.			x	—
ENVIRONMENTAL CHARACTERISTICS					
Damp Heat (Steady state)	Exposed at 40±2 °C, 90 ~ 95 %, 96 h.		① Contact Resistance: Variation from initial value 20 mΩ or less. ② Insulation Resistance : 100 MΩ MIN. ③ No damage, crack and looseness of parts.	x	—
Rapid Change of Temperature	Temperature -55 → +85 °C Time 30 → 30 min. Under 5 cycles. (Relocation time to chamber:within 2~3 MIN)			x	—
Cold	Exposed at -55°C, 96 h		① Contact Resistance: Variation from initial value 20 mΩ or less. ② No damage, crack and looseness of parts.	x	—
Dry Heat	Exposed at 85°C, 96 h			x	—
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: variation from initial value 20 mΩ or less.	x	—
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.			x	—
Solderability	Soldered at solder temperature 240±3°C for immersion duration, 3 sec.		A new uniform coating of solder shall cover a minimum of 95 % of the surface being immersed.	x	—
	COUNT	DESCRIPTION OF REVISIONS	DESIGNED	CHECKED	DATE
REMARKS	⁽¹⁾ Include temperature rise caused by current-carrying. ⁽²⁾ "STORAGE" means a long-term storage state for the unpacked part before assembly to PCB. Unless otherwise specified, refer to JIS-C-5402.		APPROVED	HS. OKAWA	14. 05. 29
			CHECKED	KN. SHIBUYA	14. 05. 29
			DESIGNED	TS. 00NO	14. 05. 29
			DRAWN	TS. 00NO	14. 05. 29
Note	QT:Qualification Test AT:Assurance Test X:Applicable Test		DRAWING NO.	ELC4-350411-00	
HRS	SPECIFICATION SHEET		PART NO.	FX20-20S-0. 5SH	
	HIROSE ELECTRIC CO., LTD.		CODE NO.	CL570-1611-1-00	△ 1/1