

Jul.1.2024 Copyright 2024 HIROSE ELECTRIC CO., LTD. All Rights Reserved.  
 In case of consideration for using Automotive equipment / device which demand high reliability, kindly contact our sales window correspondents.

APPLICABLE STANDARD					
Rating	Operating Temperature Range	-55 °C to 85 °C <sup>(1)</sup>	Storage Temperature Range	-40 °C to 60 °C <sup>(2)</sup>	
	Voltage	50 V AC/DC	Storage Humidity Range	Relative humidity 85% max (Not dewed)	
	Current	0.4 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)		60mΩ MAX.	x	—
Insulation Resistance	100 V DC.		50 MΩ MIN.	x	—
Voltage Proof	200 V AC for 1 min.		No flashover or breakdown.	x	—
MECHANICAL CHARACTERISTICS					
Insertion and Withdrawal Forces	Measured by applicable connector.		Insertion Force: 36 N MAX. Withdrawal Force: 4.8 N MIN.	x	—
Mechanical Operation	10 times insertions and extractions.		① Contact Resistance : 80mΩ MAX. 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 <sup>2</sup> , 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±4 h.		① Contact Resistance : 80mΩ MAX. ② Insulation Resistance : 50 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±4 h		① Contact Resistance : 80mΩ MAX. ② No damage, crack and looseness of parts.	x	—
Dry Heat	Exposed at 85°C, 96±4 h			x	—
Sulfur Dioxide	Exposed at 25±2°C, 75±5%RH, 25±5 PPM for 96±4 h. (Test standard: IEC 68)		Contact Resistance : 80mΩ MAX.	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.		No deformation of case of excessive looseness of the terminal.	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 <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.				APPROVED	HT. YAMAGUCHI 20200406
				CHECKED	HT. YAMAGUCHI 20200406
				DESIGNED	YY. YOSHIHARA 20200403
				DRAWN	YY. YOSHIHARA 20200403
Unless otherwise specified, refer to IEC 60512.					
Note	QT:Qualification Test AT:Assurance Test X:Applicable Test		DRAWING NO.	ELC-369482-00-00	
<b>HRS</b>	SPECIFICATION SHEET		PART NO.	FX25-80S-0.4SH	
	HIROSE ELECTRIC CO., LTD.		CODE NO.	CL575-4102-0-005	1/1