





APPLICABLE STANDARD						
RATING	Operating temperature range	-55 °C to 125 °C (note 1)	Storage temperature range	-10°C TO 50°C(Packed condition)		
	Voltage	50V AC / DC	Operating or storage humidity range	Relative humidity 90 % MAX(Not dewed)		
	Current	0.50 A	Applicable cable (FPC/FFC)	t=0.30±0.05mm, Gold plating		
SPECIFICATIONS						
ITEM		TEST METHOD		REQUIREMENTS	QT	AT
CONSTRUCTION						
General examination		Visually and by measuring instrument.		According to drawing.	×	×
Marking		Confirmed visually.			×	×
ELECTRICAL CHARACTERISTICS						
Voltage proof		150 V AC for 1 min.		No flashover or breakdown.	×	—
Insulation resistance		100 V DC.		500 MΩ MIN.	×	—
Contact resistance		AC 20 mV MAX , 1 mA .		Initial:50 mΩ MAX、 After each test:70 mΩ MAX (Including FPC/FFC bulk resistance L=8mm)	×	—
MECHANICAL CHARACTERISTICS						
Vibration		Frequency 10 to 55 Hz, half amplitude 0.75 mm, for 10 cycles in 3 axial directions.		① No electrical discontinuity of 1 μs. ② Contact resistance: 70 mΩ MAX	×	—
Shock		981 m/s ² , duration of pulse 6 ms at 3 times in 3 both axial directions.		③ No damage, crack and looseness of parts.	×	—
Mechanical operation		10 times insertions and extractions.		① Contact resistance: 70 mΩ MAX ② No damage, crack and looseness of parts.	×	—
FPC/FFC retention force		Measured by applicable FPC/FFC. (Thickness of FPC/FFC shall be t=0.30mm at initial condition.)		Direction of extraction 25.5 N MIN (note2) 	×	—
ENVIRONMENTAL CHARACTERISTICS						
Rapid change of temperature		Temperature-55→+15T ₀ +35→+125→+15T ₀ +35°C Time 30→ 2 to 3 → 30 → 2 to 3 min Under 1000 cycles.		① Contact resistance: 70 mΩ MAX ② Insulation resistance: 50 MΩ MIN. ③ No damage, crack and looseness of parts.	×	—
Damp heat (Steady state)		Exposed at 60±2 °C, Relative humidity 90 to 95 %, 1000 h.			×	—
Damp heat,cyclic		Exposed at -10 to +65 °C, Relative humidity 90 to 96 %, 10 cycles, TOTAL 240 h.		① Contact resistance: 70 mΩ MAX ② Insulation resistance: 1 MΩ MIN. (At high humidity) ③ Insulation resistance: 50 MΩ MIN. (At dry) ④ No damage, crack and looseness of parts	×	—
Dry heat		Exposed at 125±2°C, 1000 h.		① Contact resistance: 70 mΩ MAX	×	—
Cold		Exposed at -55±3°C, 96 h.		② No damage, crack and looseness of parts	×	—
Sulphur dioxide [JIS C 60068-2-42]		Exposed at 40±2 °C, Relative humidity 80±5% 25±5 ppm for 96 h.		① Contact resistance: 70 mΩ MAX	×	—
Solderability		Soldered at solder temperature, 245±0.3°C for immersion duration,3±0.3 sec.		A new uniform coating of solder shall cover a minimum of 95 % of the surface being immersed.	×	—
Resistance to soldering heat		1) Reflow soldering : Peak TMP. 250 °C MAX . Reflow TMP. over 220 °C 60 to 90 sec. Number of reflow : 2 times 2) Soldering irons : TMP. 400±10 °C for 5±1 sec .		No deformation of case of excessive looseness of the terminals. (note 3)	×	—
	COUNT	DESCRIPTION OF REVISIONS	DESIGNED	CHECKED	DATE	
	1	DIS-F-00018728	YT. SASAKI	HS. HIRAHARA	20230801	
REMARK				APPROVED	HS. HIRAHARA	20230719
				CHECKED	HS. HIRAHARA	20230719
				DESIGNED	YT. SASAKI	20230719
				DRAWN	YT. SASAKI	20230719
Unless otherwise specified, refer to IEC 60512.						
Note QT:Qualification Test AT:Assurance Test X:Applicable Test			DRAWING NO.		ELC-399242-00-00	
	SPECIFICATION SHEET		PART NO.	FH69-50S-0. 5SH		
	HIROSE ELECTRIC CO., LTD.		CODE NO.	CL580		1/2

(note 1)



The heat resistant temperature when using FFC is 105°C.
When the heat resistant temperature of FPC/FFC is less than 125°C/105°C, the heat resistant temperature of FPC/FFC is applied.

(note 2)

Stabilize the FPC/FFC to PCB or something fixed, if pull-up or pull-down force is exepected to be applied to the FPC/FFC.
There's a case witch FPC/FFC retention force doesn't fulfill the value, because FPC/FFC specification affects the result of FPC/FFC retention force.

(note 3)

Blisters which may be generated on the housing do not affect product performance.

Note QT:Qualification Test AT:Assurance Test X:Applicable Test		DRAWING NO.		ELC-399242-00-00	
	SPECIFICATION SHEET		PART NO.	FH69-50S-0. 5SH	
	HIROSE ELECTRIC CO., LTD.		CODE NO	CL580	 2/2