




APPLICABLE STANDARD					
RATING	Operating temperature range	-55 °C to 125 °C (note 6)	Storage temperature range	-10°C TO 60°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=0.33±0.03mm, Gold plating (Ground plate : Tin plating)	
SPECIFICATIONS					
ITEM	TEST METHOD		REQUIREMENTS	QT	AT
CONSTRUCTION					
General examination	Visually and by measuring instrument.		According to drawing.	×	×
Marking	Confirmed visually.		(note 1)	×	×
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 .		[FPC] Initial:60 mΩ MAX、 After each test:80 mΩ MAX (Including bulk resistance L=8mm) [FFC] Initial:80 mΩ MAX、 After each test:100 mΩ MAX (Including bulk resistance L=26mm)	×	—
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: 80 mΩ MAX(FPC) 100. mΩ MAX(FFC) ③ No damage, crack and looseness of parts.	×	—
Shock	981 m/s ² , duration of pulse 6 ms at 3 times in 3 both axial directions.			×	—
Mechanical operation	10 times insertions and extractions.		① Contact resistance: 80 mΩ MAX(FPC) 100. mΩ MAX(FFC) ② No damage, crack and looseness of parts.	×	—
FPC/FFC insertion/extraction force	Measured by applicable FPC/FFC. (Thickness of FPC/FFC shall be t=0.33mm at initial condition.)		Insertion force : Direction of insertion (n : Number of contacts) 2+0.35×n N MAX (FPC/FFC) (note 2) 2+0.41×n N MAX (Shielded FFC) (note 2) Extraction force : Direction of extraction (n : Number of contacts) 4+0.32×n N MAX (FPC/FFC) (note 2) 4+0.42×n N MAX (Shielded FFC) (note 2)	×	—
FPC/FFC retention force	Measured by applicable FPC/FFC. (Thickness of FPC/FFC shall be t=0.33mm at initial condition.)		Direction of extraction (n : Number of contacts) 18+0.08×n N MIN (FPC/FFC) (note3) 15+0.1×n N MIN (Shielded FFC) (note3)	×	—
ENVIRONMENTAL CHARACTERISTICS					
Rapid change of temperature	Temperature-55→+15 to +35→+125→+15 to +35°C Time 30→ 2 to 3 → 30 → 2 to 3 min Under 1000 cycles.		① Contact resistance: 80 mΩ MAX(FPC) 100. mΩ MAX(FFC) 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 %, 96 h.			×	—
Damp heat,cyclic	Exposed at -10 to +65 °C, Relative humidity 90 to 96 %, 10 cycles, TOTAL 240 h.		① Contact resistance: 80 mΩ MAX(FPC) 100. mΩ MAX(FFC) 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	×	—
	COUNT	DESCRIPTION OF REVISIONS	DESIGNED	CHECKED	DATE
	1	DIS-F-00006186	KN. KOBAYASHI	HS. HIRAHARA	20200615
REMARK			APPROVED	HH. SHINDO	20180517
			CHECKED	KN. SHIBUYA	20180517
			DESIGNED	SI. TAMAKI	20180516
Unless otherwise specified, refer to IEC 60512.			DRAWN	DS. HIROWATARI	20180516
Note QT:Qualification Test AT:Assurance Test X:Applicable Test			DRAWING NO.		ELC-370364-00-00
	SPECIFICATION SHEET		PART NO.	FH67-**S-0. 5SV	
	HIROSE ELECTRIC CO., LTD.		CODE NO.	CL580	 1/2

SPECIFICATIONS

ITEM	TEST METHOD	REQUIREMENTS	QT	AT
Dry heat	Exposed at 125±2°C, 1000 h.	① Contact resistance: 80 mΩ MAX(FPC) 100. mΩ MAX(FFC) ② No damage, crack and looseness of parts	×	—
Cold	Exposed at -55±3°C, 1000 h.		×	—
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: 80 mΩ MAX(FPC) 100. mΩ MAX(FFC)	×	—
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. 350±10 °C for 5±1 sec .	No deformation of case of excessive looseness of the terminals. (<i>note 4</i>)	×	—

(note 1)

This product features "One Action Lock" and vertical mount.
 "One Action Lock" completes FPC/FFC lock just by inserting the FPC/FFC.
 Do not operate the actuator when inserting the FPC/FFC.

(note 2)

Do not insert the FPC/FFC to this product at an angle.

(note 3)

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

(note 4)



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

(note 5)

The occurrence and the length of whisker, and the performance deterioration caused by it are out of the scope of this specification

4 (note 6)

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 QT:Qualification Test AT:Assurance Test X:Applicable Test		DRAWING NO.		ELC-370364-00-00	
	SPECIFICATION SHEET		PART NO.	FH67-***S-0.5SV	
	HIROSE ELECTRIC CO., LTD.		CODE NO	CL580	 2/2