



APPLICABLE STANDARD						
RATING	Operating temperature range	-55 °C to 85 °C	Storage temperature range	-10°C TO 50°C(Packed condition)		
	Voltage	30V AC / DC	Operating or storage humidity range	Relative humidity 90 % MAX(Not dewed)		
	Current	0.25 A	Applicable cable	t=0.3±0.03mm, Gold plating		
SPECIFICATIONS						
ITEM		TEST METHOD		REQUIREMENTS	QT AT	
CONSTRUCTION						
General examination		Visually and by measuring instrument.		According to drawing. (note 1)	×	×
Marking		Confirmed visually.			×	×
ELECTRICAL CHARACTERISTICS						
Voltage proof		90 V AC for 1 min.		No flashover or breakdown.	×	×
Insulation resistance		100 V DC.		50 MΩ MIN.	×	×
Contact resistance		AC 20 mV MAX , 1 mA .		100 mΩ MAX. Including FPC 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: 100 mΩ MAX.	×	—
Shock		981 m/s <sup>2</sup> , 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: 100 mΩ MAX. ② No damage, crack and looseness of parts.	×	—
FPC insertion force		Measured by applicable FPC (Thickness of FPC shall be t=0.30mm at initial condition.)		Insertion force : Direction of insertion 2.6+0.14 × n N MAX (note 2) (n: Number of contacts)	×	—
FPC retention force		Measured by applicable FPC (Thickness of FPC shall be t=0.30mm at initial condition.)		Retention force : Direction of extraction 5+0.07 × n N MIN (note3) (n: Number of contacts)	×	—
ENVIRONMENTAL CHARACTERISTICS						
Corrosion salt mist		Exposed at 35±2 °C, 5 % salt water spray for 96 h.		① Contact resistance: 100 mΩ MAX.	×	—
Rapid change of temperature		Temperature -55→+15TO+35→+85→+15TO+35°C Time 30→ 2 to 3 → 30 → 2 to 3 min Under 5 cycles.		① Contact resistance: 100 mΩ MAX. ② Insulation resistance: 50 MΩ MIN. ③ No damage, crack and looseness of parts.	×	—
Damp heat (steady state)		Exposed at 40±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: 100 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	×	—
	COUNT	DESCRIPTION OF REVISIONS	DESIGNED	CHECKED	DATE	
△						
REMARK				APPROVED	NF. MIYAZAKI	17. 08. 23
				CHECKED	YN. TAKASHITA	17. 08. 23
				DESIGNED	HH. MURAKAMI	17. 08. 23
Unless otherwise specified, refer to IEC 60512.				DRAWN	HH. MURAKAMI	17. 08. 23
Note QT:Qualification Test AT:Assurance Test X:Applicable Test			DRAWING NO.		ELC-368163-99-00	
HRS	SPECIFICATION SHEET		PART NO.	FH62-**S-0. 25SHW (99)		
	HIROSE ELECTRIC CO., LTD.		CODE NO.	CL580		
				△	1/2	

SPECIFICATIONS					
ITEM	TEST METHOD	REQUIREMENTS	QT	AT	
Dry heat	Exposed at $85 \pm 2^{\circ}\text{C}$ , 96 h.	① Contact resistance: 100 mΩ MAX.	×	—	
Cold	Exposed at $-55 \pm 3^{\circ}\text{C}$ , 96 h.	② No damage, crack and looseness of parts	×	—	
Sulphur dioxide [JIS C 60068-2-42]	Exposed at $40 \pm 2^{\circ}\text{C}$ , Relative humidity $80 \pm 5\%$ 25±5 ppm for 96 h.	① Contact resistance: 100 mΩ MAX.	×	—	
Hydrogen sulphide [JIS C 60068-2-43]	Exposed at $40 \pm 2^{\circ}\text{C}$ , Relative humidity $80 \pm 5\%$ , 10 to 15 ppm for 96 h.		×	—	
Solderability	Soldered at solder temperature, $245 \pm 3^{\circ}\text{C}$ for immersion duration, $3 \pm 0.3$ 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. $250^{\circ}\text{C}$ MAX . Reflow TMP. over $220^{\circ}\text{C}$ 60 to 90 sec. Number of reflow : 2 times 2) Soldering irons : TMP. $350 \pm 10^{\circ}\text{C}$ for $5 \pm 1$ sec .	No deformation of case of excessive looseness of the terminals. ( <i>note 4</i> )	×	—	
<p><b>(note 1)</b> This product features top-contact point. "One Action Lock" completes FPC lock just by inserting the FPC. Do not operate the locking-lever when inserting the FPC.</p> <p><b>(note 2)</b> Do not insert the FPC to this product at an angle.</p> <p><b>(note 3)</b> Stabilize the FPC to PCB or something fixed, if pull-up or pull-down force is expected to be applied to the FPC.</p> <p><b>(note 4)</b> Blisters which may be generated on the housing do not affect product performance.</p>					
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