



APPLICABLE STANDARD					
RATING	Operating temperature range	-55 °C   to   85 °C	Storage temperature range	-10℃ TO 50℃(Packed condition)	
	Voltage	30V   AC / DC	Operating or storage humidity range	Relative humidity 90 % MAX (Not dewed)	
	Current	0.2 A	Applicable cable	t=0.2±0.02mm, Gold plating	
SPECIFICATIONS					
ITEM		TEST METHOD		REQUIREMENTS	QT   AT
<b>CONSTRUCTION</b>					
General examination		Visually and by measuring instrument.		According to drawing.	x   x
Marking		Confirmed visually.		( <i>note 1</i> )	x   x
<b>ELECTRICAL CHARACTERISTICS</b>					
Voltage proof		90 V AC for 1 min.		No breakdown.	x   —
Insulation resistance		100 V DC.		50 MΩ MIN.	x   —
Contact resistance		AC 20 mV MAX ,   1 mA .		150 mΩ MAX. Including FPC bulk resistance (L=8mm)	x   —
<b>MECHANICAL CHARACTERISTICS</b>					
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: 150 mΩ MAX.	x   —
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.	x   —
Mechanical operation		10   times insertions and extractions.		① Contact resistance: 150 mΩ MAX. ② No damage, crack and looseness of parts.	x   —
FPC insertion force		Measured by applicable FPC (Thickness of FPC shall be t=0.20mm at initial condition.)		Insertion force : Direction of insertion 4.3 N MAX ( <i>note 2</i> )	x   —
FPC retention force		Measured by applicable FPC (Thickness of FPC shall be t=0.20mm at initial condition.)		Retention force : Direction of extraction 5.2 N MIN ( <i>note3</i> )	x   —
<b>ENVIRONMENTAL CHARACTERISTICS</b>					
Rapid change of temperature		Temperature -55→+15T <sub>O</sub> +35→+85→+15T <sub>O</sub> +35°C Time     30→   2 to 3 → 30 → 2 to 3 min Under   5 cycles.		① Contact resistance: 150 mΩ MAX. ② Insulation resistance: 50 MΩ MIN. ③ No damage, crack and looseness of parts.	x   —
Damp heat (steady state)		Exposed at 40±2 °C, Relative humidity 90 to 95 %, 96 h.			x   —
Damp heat,cyclic		Exposed at -10 to +65 °c, Relative humidity 90 to 96 %, 10 cycles, TOTAL 240 h.		① Contact resistance: 150 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	x   —
COUNT	DESCRIPTION OF REVISIONS		DESIGNED	CHECKED	DATE
△					
REMARK			APPROVED	KN. SHIBUYA	20221107
			CHECKED	HH. MURAKAMI	20221107
			DESIGNED	SI. MIZUSAWA	20221107
			DRAWN	SI. MIZUSAWA	20221107
Unless otherwise specified, refer to IEC 60512.					
Note	QT:Qualification Test   AT:Assurance Test X:Applicable Test		DRAWING NO.		ELC-394201-00-00
HRS	SPECIFICATION SHEET		PART NO.	FH82-14S-0. 25SHW	
	HIROSE ELECTRIC CO., LTD.		CODE NO.	CL0580-5501-0-00	△ 1/2

SPECIFICATIONS					
ITEM	TEST METHOD	REQUIREMENTS	QT	AT	
Dry heat	Exposed at 85±2℃, 96 h.	① Contact resistance: 150 mΩ MAX.	×	—	
Cold	Exposed at -55±3℃, 96 h.	② No damage, crack and looseness of parts	×	—	
Sulphur dioxide [JIS C 60068-2-42]	Exposed at 40±2℃, Relative humidity 80±5% 25±5 ppm for 96 h.	① Contact resistance: 150 mΩ MAX.	×	—	
Solderability	Soldered at solder temperature, 245±3℃ 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℃ MAX . Reflow TMP. over 220℃ 60 to 90 sec. Number of reflow : 2 times 2) Soldering irons : TMP. 350±10℃ for 5±1 sec .	No deformation of case of excessive looseness of the terminals. ( <i>note 4</i> )	×	—	
<p><b>(note 1)</b></p> <p>This product features top-contact point.</p> <p>"One Action Lock" completes FPC lock just by inserting the FPC.</p> <p>Do not operate the locking-lever when inserting the FPC.</p> <p><b>(note 2)</b></p> <p>Do not insert the FPC to this product at an angle.</p> <p><b>(note 3)</b></p> <p>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></p> <p>Blisters which may be generated on the housing do not affect product performance.</p>					
Note QT:Qualification Test AT:Assurance Test X:Applicable Test		DRAWING NO.	ELC-394201-00-00		
	SPECIFICATION SHEET	PART NO.	FH82-14S-0. 25SHW		
	HIROSE ELECTRIC CO., LTD.	CODE NO	CL0580-5501-0-00		2/2