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
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 breakdown.	×	—
Insulation resistance	100 V DC.	50 MΩ MIN.	×	—
Contact resistance	AC 20 mV MAX , 1 mA .	150 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: 150 mΩ MAX. 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: 150 mΩ MAX. ② No damage, crack and looseness of parts.	×	—
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 (***note 2***)	×	—
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 (***note3***)	×	—
ENVIRONMENTAL CHARACTERISTICS				
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: 150 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: 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	×	—

	COUNT	DESCRIPTION OF REVISIONS	DESIGNED	CHECKED	DATE
⚠0					

REMARK

Unless otherwise specified, refer to IEC 60512.

APPROVED	KN. SHIBUYA	20221107
CHECKED	HH. MURAKAMI	20221107
DESIGNED	SI. MIZUSAWA	20221107
DRAWN	SI. MIZUSAWA	20221107

Note QT:Qualification Test AT:Assurance Test X:Applicable Test

DRAWING NO. ELC-394201-00-00

HRS

SPECIFICATION SHEET

HIROSE ELECTRIC CO., LTD.

PART NO. FH82-14S-0.25SHW

CODE NO. CL0580-5501-0-00 ⚠0

FORM HD0011-2-1

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. (***note 4***)	×	—

(***note 1***)

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.

(***note 2***)

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

(***note 3***)

Stabilize the FPC to PCB or something fixed, if pull-up or pull-down force is expected to be applied to the FPC.

(***note 4***)

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