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In case of consideration for using Automotive equipment / device which demand high reliability, kindly contact our sales window correspondents.

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	0.2 A	Applicable cable	t=0.2±0.02mm, Gold plating

SPECIFICATIONS

ITEM	TEST METHOD	REQUIREMENTS	QT	AT
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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.	50 mΩ MAX.: Connector only (The conductor resistance including the FPC pattern for 8mm is 150mΩ MAX.)	×	—

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: 50 mΩ MAX.: Connector only (The conductor resistance including the FPC pattern for 8mm is 150mΩ 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: 50 mΩ MAX.: Connector only (The conductor resistance including the FPC pattern for 8mm is 150mΩ 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: 50 mΩ MAX.: Connector only (The conductor resistance including the FPC pattern for 8mm is 150mΩ 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.		×	—

COUNT	DESCRIPTION OF REVISIONS	DESIGNED	CHECKED	DATE
8	DIS-F-00021935	SH. YAMAGUCHI	HS. HIRAHARA	20241216

REMARK	APPROVED	KN. SHIBUYA	20221107
	CHECKED	HH. MURAKAMI	20221107
	DESIGNED	S.I. MIZUSAWA	20221107
	DRAWN	S.I. 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
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HRS	SPECIFICATION SHEET	PART NO.	FH82-14S-0. 25SHW	
	HIROSE ELECTRIC CO., LTD.	CODE NO.	CL0580-5501-0-00	△ 1/2

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SPECIFICATIONS

ITEM	TEST METHOD	REQUIREMENTS	QT	AT
Dry heat	Exposed at 85±2°C, 96 h.	① Contact resistance:  50 mΩ MAX.: Connector only (The conductor resistance including the FPC pattern for 8mm is 150mΩ MAX.) ② No damage, crack and looseness of parts	x	—
Cold	Exposed at -55±3°C, 96 h.		x	—
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:  50 mΩ MAX.: Connector only (The conductor resistance including the FPC pattern for 8mm is 150mΩ MAX.)	x	—
Solderability	Soldered at solder temperature, 245±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.	x	—
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>	x	—

(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.

There is a case which the FPC retention force doesn't fulfill the specification depending on the FPC specification. 

(note 4)

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-394201-00-00



SPECIFICATION SHEET


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CODE NO

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