

APPLICABLE STANDARD							
RATING	OPERATING TEMPERATURE RANGE	-40 °C TO 85 °C	STORAGE TEMPERATURE RANGE	-10 °C TO 50 °C (PACKED CONDITION)			
	VOLTAGE	30 V AC / DC	OPERATING OR STORAGE HUMIDITY RANGE	RELATIVE HUMIDITY 90 % MAX (NOT DENDED)			
	CURRENT	0.15 A	APPLICABLE CABLE	t=0.3 ± 0.05mm, GOLD PLATING			
SPECIFICATIONS							
ITEM	TEST METHOD		REQUIREMENTS		QT AT		
CONSTRUCTION							
GENERAL EXAMINATION	VISUALLY AND BY MEASURING INSTRUMENT.		ACCORDING TO DRAWING.		X X		
MARKING	CONFIRMED VISUALLY.				X X		
ELECTRIC CHARACTERISTICS							
CONTACT RESISTANCE	1mA(DC OR 1000Hz).		150 mΩ MAX. INCLUDING FPC, BULK RESISTANCE (L=8mm)		X X		
INSULATION RESISTANCE	100 V DC.		500 MΩ MIN.		X X		
VOLTAGE PROOF	90 V AC FOR 1 min.		NO FLASHOVER OR BREAKDOWN.		X X		
MECHANICAL CHARACTERISTICS							
MECHANICAL OPERATION	20 TIMES INSERTIONS AND EXTRACTIONS.		① CONTACT RESISTANCE: 150 mΩ MAX. ② NO DAMAGE, CRACK AND LOOSENESS OF PARTS.		X —		
VIBRATION	FREQUENCY 10 TO 55 Hz, HALF AMPLITUDE 0.75 mm, FOR 10 CYCLES IN 3 DIRECTIONS.		① NO ELECTRICAL DISCONTINUITY OF 1 μs.		X —		
SHOCK	981 m/s <sup>2</sup> , DURATION OF PULSE 6 ms AT 3 TIMES IN 3 DIRECTIONS.		② CONTACT RESISTANCE: 150 mΩ MAX. ③ NO DAMAGE, CRACK AND LOOSENESS OF PARTS.		X —		
FPC RETENSION FORCE	MEASURED BY APPLICABLE FPC. (CONNECTOR,FPC AT INITIAL CONDITION. THICKNESS OF FPC SHALL BE t=0.30mm )		DIRECTION OF INSERTION: 24 N MIN		X —		
ENVIRONMENTAL CHARACTERISTICS							
RAPID CHANGE OF TEMPERATURE	TEMPERATURE-40→+15 TO +35→+85→+15 TO +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 —		
DRY HEAT	EXPOSED AT 85±2 °C, 96 h.		① CONTACT RESISTANCE: 150 mΩ MAX. ② NO DAMAGE, CRACK AND LOOSENESS OF PARTS.		X —		
COLD	EXPOSED AT -40±3°C, 96 h.		① CONTACT RESISTANCE: 150 mΩ MAX. ② NO EVIDENCE OF CORROSION WHICH AFFECTS TO OPERATION OF CONNECTOR.		X —		
CORROSION SALT MIST	EXPOSED AT 35±2 °C 5% SALT WATER SPLASH FOR 96 h.				X —		
SURPHUR DIOXIDE [JIS C 0090]	EXPOSED AT 40±2 °C , RELATIVE HUMIDITY 80±5% , 25±5 PPM FOR 96 h.				X —		
HYDROGEN SULPHIDE [JIS C 0092]	EXPOSED AT 40±2 °C , RELATIVE HUMIDITY 80±5% , 10 TO 15 PPM FOR 96 h.				X —		
COUNT	DESCRIPTION OF REVISIONS		DESIGNED	CHECKED	DATE		
0							
REMARK				APPROVED	RI.TAKAYASU 06.04.27		
				CHECKED	TN.KUWATA 06.04.27		
				DESIGNED	YS.EBI 06.04.27		
Unless otherwise specified, refer to JIS C 5402.				DRAWN	MK.YASUMI 06.04.27		
Note QT:Qualification Test AT:Assurance Test X:Applicable Test			DRAWING NO.		ELC4-154192-01		
HRS	SPECIFICATION SHEET		PART NO.	FH30-80S-0.3SHW(05)			
	HIROSE ELECTRIC CO., LTD.		CODE NO.	CL580-0100-4-05	△ 1/2		

## SPECIFICATIONS

ITEM	TEST METHOD	REQUIREMENTS	QT	AT
RESISTANCE TO SOLDERING HEAT	1) REFLOW SOLDERING (TO BE 2 TIMES MAX.) PEAK TMP. 250 °C MAX REFLOW TMP. 230 °C MIN FOR 30 sec. PRE-HEATING. 150 TO 200°C 90 TO 120 sec. SOLDERING IRONS : 350 ± 10 °C, FOR 5± 1 sec .	NO DEFORMATION OF CASE OF EXCESSIVE LOOSENESS OF THE TERMINALS.	X	—
SOLDERABILITY	SOLDERED AT SOLDER TEMPERATURE, 235±5 °C FOR IMMERSION DURATION, 2±0.5 sec.	A NEW UNIFORM COATING OF SOLDER SHALL COVER A MINIMUM OF 95 % OF THE SURFACE BEING IMMERSED.	X	—

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

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