

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


APPLICABLE STANDARD		OPERATING TEMPERATURE RANGE		STORAGE TEMPERATURE RANGE	
		-40 °C TO 85 °C		-10 °C TO 50 °C (PACKED CONDITION)	
RATING	OPERATING TEMPERATURE RANGE				
	VOLTAGE	50 V AC / DC		OPERATING OR STORAGE HUMIDITY RANGE	
CURRENT	0.3 A		RELATIVE HUMIDITY 90 % MAX (NOT DEWED)		
SPECIFICATIONS					
ITEM	TEST METHOD	REQUIREMENTS		QT	AT
CONSTRUCTION		GENERAL EXAMINATION VISUALLY AND BY MEASURING INSTRUMENT.		ACCORDING TO DRAWING.	
MARKING	CONFIRMED VISUALLY.				
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	150 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.	
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 ² , 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: 28.8 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.	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	—
DAMP HEAT, CYCLIC	EXPOSED AT -10 TO +65 °C, RELATIVE HUMIDITY 90 TO 96 %, 10 CYCLES, TOTAL 240 h.			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.			X	—
CORROSION SALT MIST	EXPOSED AT 35±2 °C 5% SALT WATER SPLAY FOR 96 h.	① CONTACT RESISTANCE: 150 MΩ MAX. ② NO EVIDENCE OF CORROSION WHICH AFFECTS TO OPERATION OF CONNECTOR.		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	
REMARK					
Unless otherwise specified, refer to JIS C 5402.					
Note QT:Qualification Test AT:Assurance Test X:Applicable Test		DRAWING NO.		ELC4-157120-01	
HRS		APPROVED		RI. TAKAYASU	
		CHECKED		HS. SAKAMOTO	
		DESIGNED		YS. EBI	
		DRAWN		MK. YASUMI	
SPECIFICATION SHEET		PART NO.		FH30M-96S-0.4SHW (05)	
HIROSE ELECTRIC CO., LTD.		CODE NO.		CL580-0103-2-05	
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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. 2)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	—

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SPECIFICATION SHEET	PART NO.	FH30M-96S-0.4SHW (05)
HIROSE ELECTRIC CO., LTD.	CODE NO	GL580-0103-2-05
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