

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

APPLICABLE STANDARD		-55 °C TO 85 °C		STORAGE TEMPERATURE RANGE	-10 °C TO 50 °C (PACKED CONDITION)		
RATING	OPERATING TEMPERATURE RANGE			OPERATING OR STORAGE HUMIDITY RANGE	RELATIVE HUMIDITY 90 % MAX (NOT DEWED)		
	VOLTAGE	40 V AC / DC			APPLICABLE CABLE	±0.3±0.05mm, GOLD PLATING	
CURRENT	0.4 A						
<b>SPECIFICATIONS</b>							
ITEM	TEST METHOD	REQUIREMENTS		QT	AT		
<b>CONSTRUCTION</b>			GENERAL EXAMINATION VISUALLY AND BY MEASURING INSTRUMENT. ACCORDING TO DRAWING.				
MARKING			CONFIRMED VISUALLY.				
<b>ELECTRIC CHARACTERISTICS</b>							
VOLTAGE PROOF	120 V AC FOR 1 min.	NO FLASHOVER OR BREAKDOWN.		X	X		
INSULATION RESISTANCE	100 V DC.	500 MΩ MIN.		X	X		
CONTACT RESISTANCE	AC 20 mV MAX ( 1 KHz ) , 1 mA.	100 mΩ MAX. INCLUDING FPC, FPC BULK RESISTANCE (L=8mm)		X	X		
<b>MECHANICAL CHARACTERISTICS</b>							
VIBRATION	FREQUENCY 10 TO 55 Hz, HALF AMPLITUDE 0.75 mm, — m/s <sup>2</sup> 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: 100 mΩ MAX.		X	—		
		③ NO DAMAGE, CRACK AND LOOSENESS OF PARTS.		X	—		
MECHANICAL OPERATION	20 TIMES INSERTIONS AND EXTRACTIONS.	① CONTACT RESISTANCE: 100 mΩ MAX. OF PARTS.		X	—		
FPC RETENTION FORCE	MEASURED BY APPLICABLE FPC. (THICKNESS OF FPC SHALL BE ±0.30mm AT INITIAL CONDITION.)	② NO DAMAGE, CRACK AND LOOSENESS OF PARTS.		X	—		
<b>ENVIRONMENTAL CHARACTERISTICS</b>		DIRECTION OF INSERTION : 13N MIN. (note 1)		X	—		
CORROSION SALT MIST	EXPOSED AT 35±2 °C , 5 % SALT WATER SPRAY FOR 96 h.	① CONTACT RESISTANCE: 100 mΩ MAX.		X	—		
RAPID CHANGE OF TEMPERATURE	TEMPERATURE: -55 → +15 to +35 → +85 → +15 to +35 °C TIME 30 → 2 to 3 → 30 → 2 to 3 min UNDER 5 CYCLES.	② NO DAMAGE, CRACK AND LOOSENESS OF PARTS.		X	—		
		③ NO EVIDENCE OF CORROSION WHICH AFFECTS TO OPERATION OF CONNECTOR.		X	—		
		④ CONTACT RESISTANCE: 100 mΩ MAX. INSULATION RESISTANCE: 50 MΩ MIN. 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: 100 mΩ MAX.		X	—		
DAMP HEAT, CYCLIC	EXPOSED AT -10 TO +65 °C, RELATIVE HUMIDITY 90 TO 96 %, 10 CYCLES, TOTAL 240 h.	② INSULATION RESISTANCE: 1 MΩ MIN. (AT HIGH HUMIDITY)		X	—		
REMARK	COUNT DESCRIPTION OF REVISIONS	③ INSULATION RESISTANCE: 50 MΩ MIN. (AT DRY)		X	—		
		④ NO DAMAGE, CRACK AND LOOSENESS OF PARTS.		X	—		
		DESIGNED	CHECKED	DATE			
		APPROVED	MM. NISHIMATSU	11. 06. 07			
	CHECKED	HS. SAKAMOTO	11. 06. 06				
	DESIGNED	YH. KOTANI	11. 06. 06				
	DRAWN	MM. SANPEI	11. 06. 06				
Unless otherwise specified, refer to JIS C 5402.							
Note QT: Qualification Test AT: Assurance Test X: Applicable Test		DRAWING NO.		ELC4-322394-01			
<b>HRS</b>		SPECIFICATION SHEET		PART NO. FH33MHJ-65S-0.4SH (10)			
		HIROSE ELECTRIC CO., LTD.		CODE NO. CL580-1325-0-10		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: 100 mΩ MAX. ② NO DAMAGE, CRACK AND LOOSENESS OF PARTS.	X	—
COLD	EXPOSED AT -55±3°C, 96 h.	② NO DAMAGE, CRACK AND LOOSENESS OF PARTS.	X	—
SURPHUR DIOXIDE [JIS C 0090]	EXPOSED AT 40±2 °C, RELATIVE HUMIDITY ±5% 25±5 PPM FOR 96 h.	① CONTACT RESISTANCE: 100 mΩ MAX. ② NO DAMAGE, CRACK AND LOOSENESS OF PARTS. ③ NO EVIDENCE OF CORROSION WHICH AFFECTS TO OPERATION OF CONNECTOR.	X	—
HYDROGEN SULPHIDE [JIS C 0092]	EXPOSED AT 40±2 °C, RELATIVE HUMIDITY 80±5%, 10 TO 15 PPM FOR 96 h.	③ NO EVIDENCE OF CORROSION WHICH AFFECTS TO OPERATION OF CONNECTOR.	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	—
RESISTANCE TO SOLDERING HEAT	1) REFLOW SOLDERING : PEAK TMP. 250 °C MAX. REFLOW TMP. 230 °C MIN FOR 60 sec. 2) SOLDERING IRONS : TMP. 350 ± 10 °C FOR 5±1 sec.	NO DEFORMATION OF CASE OF EXCESSIVE LOOSENESS OF THE TERMINALS.	X	—

**(notes)**

THIS PRODUCT HAS FLIP-LOCK CONSTRUCTION. FASTEN FPC ON PCB OR SOMETHING FIXED IF FORCE IN VERTICAL DIRECTION SHALL BE PREDICTED.

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<b>HRS</b>	SPECIFICATION SHEET		PART NO.	FH33MHJ-65S-0.4SH (10)	
	HIROSE ELECTRIC CO., LTD.		CODE NO	CL580-1325-0-10	△