

APPLICABLE STANDARD		SPECIFICATIONS			
RATING	OPERATING TEMPERATURE RANGE	-55 °C TO +85 °C	STORAGE TEMPERATURE RANGE	-10 °C TO +50 °C (PACKED CONDITION)	
	VOLTAGE	50 V AC / DC	OPERATING OR STORAGE HUMIDITY RANGE	RELATIVE HUMIDITY 90 % MAX (NOT DEWED)	
	CURRENT	0.5 A (note 1)	APPLICABLE CABLE	t=0.3±0.03mm, GOLD PLATING	
CONSTRUCTION					
GENERAL EXAMINATION	VISUALLY AND BY MEASURING INSTRUMENT.		ACCORDING TO DRAWING.		<input checked="" type="checkbox"/> <input checked="" type="checkbox"/>
MARKING	CONFIRMED VISUALLY.				<input checked="" type="checkbox"/> <input checked="" type="checkbox"/>
ELECTRICAL CHARACTERISTICS					
VOLTAGE PROOF	150 V AC FOR 1 min.		NO FLASHOVER OR BREAKDOWN.		<input checked="" type="checkbox"/> <input checked="" type="checkbox"/>
INSULATION RESISTANCE	100 V DC.		500 MΩ MIN.		<input checked="" type="checkbox"/> <input checked="" type="checkbox"/>
CONTACT RESISTANCE	AC 20 mV MAX (1 KHz), 1 mA .		100 mΩ MAX. INCLUDING FPC, FFC BULK RESISTANCE (L=8 mm)		<input checked="" type="checkbox"/> <input checked="" type="checkbox"/>
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: 100 mΩ MAX. ③ NO DAMAGE, CRACK OR LOOSENESS OF PARTS.		<input checked="" type="checkbox"/> <input type="checkbox"/>
SHOCK	981 m/s ² , DURATION OF PULSE 6 ms AT 3 TIMES IN 3 BOTH AXIAL DIRECTIONS.				<input checked="" type="checkbox"/> <input type="checkbox"/>
MECHANICAL OPERATION	20 TIMES INSERTIONS AND EXTRACTIONS.		① CONTACT RESISTANCE: 100 mΩ MAX. ② NO DAMAGE, CRACK OR LOOSENESS OF PARTS.		<input checked="" type="checkbox"/> <input type="checkbox"/>
FPC RETENTION FORCE	MEASURED BY APPLICABLE FPC. (THICKNESS OF FPC SHALL BE t=0.30 mm AT INITIAL CONDITION.)		DIRECTION OF INSERTION : 0.15 × n N MIN. (n : NUMBER OF CONTACTS) (note 2)		<input checked="" type="checkbox"/> <input type="checkbox"/>
ENVIRONMENTAL CHARACTERISTICS					
CORROSION SALT MIST	EXPOSED AT 35±2 °C, 5 % SALT WATER SPRAY FOR 96 h.		① CONTACT RESISTANCE: 100 mΩ MAX. ② NO DAMAGE, CRACK OR LOOSENESS OF PARTS. ③ NO EVIDENCE OF CORROSION WHICH AFFECTS TO OPERATION OF CONNECTOR.		<input checked="" type="checkbox"/> <input type="checkbox"/>
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: 100 mΩ MAX. ② INSULATION RESISTANCE: 50 MΩ MIN. ③ NO DAMAGE, CRACK OR LOOSENESS OF PARTS.		<input checked="" type="checkbox"/> <input type="checkbox"/>
DAMP HEAT (STEADY STATE)	EXPOSED AT 40±2 °C, RELATIVE HUMIDITY 90 TO 95 %, 96 h.				<input checked="" type="checkbox"/> <input type="checkbox"/>
DAMP HEAT, CYCLIC	EXPOSED AT -10 TO +65 °C, RELATIVE HUMIDITY 90 TO 96 %, 10 CYCLES, TOTAL 240 h.		① CONTACT RESISTANCE: 100 mΩ MAX. ② INSULATION RESISTANCE: 1 MΩ MIN. (AT HIGH HUMIDITY) ③ INSULATION RESISTANCE: 50 MΩ MIN. (AT DRY) ④ NO DAMAGE, CRACK OR LOOSENESS OF PARTS.		<input checked="" type="checkbox"/> <input type="checkbox"/>
	COUNT	DESCRIPTION OF REVISIONS	DESIGNED	CHECKED	DATE
					
REMARK				APPROVED	HS. HIRAHARA
				CHECKED	HS. HIRAHARA
				DESIGNED	NM. YONEYAMA
Unless otherwise specified, refer to JIS C 5402 and IEC 60512.				DRAWN	TS. HONJO
Note QT:Qualification Test AT:Assurance Test X:Applicable Test			DRAWING NO.		ELC-351252-00-00
	SPECIFICATION SHEET		PART NO.	FH55-22S-0.5SH	
	HIROSE ELECTRIC CO., LTD.		CODE NO.	CL0580-3707-7-00	 1/2

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 OR LOOSENESS OF PARTS.	X	—
COLD	EXPOSED AT -55 ± 3 °C, 96 h.	② NO DAMAGE, CRACK OR LOOSENESS OF PARTS.	X	—
SULPHUR DIOXIDE [JIS C 60068-2-42]	EXPOSED AT 40 ± 2 °C, RELATIVE HUMIDITY $80 \pm 5\%$ 25 ± 5 ppm FOR 96 h.	① CONTACT RESISTANCE: 100 mΩ MAX. ② NO DAMAGE, CRACK OR LOOSENESS OF PARTS.	X	—
HYDROGEN SULPHIDE [JIS C 60068-2-43]	EXPOSED AT 40 ± 2 °C, RELATIVE HUMIDITY $80 \pm 5\%$, 10 TO 15 ppm FOR 96 h.	③ NO EVIDENCE OF CORROSION WHICH AFFECTS TO OPERATION OF CONNECTOR.	X	—
SOLDERABILITY	SOLDERED AT SOLDER TEMPERATURE, 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 230 °C WITHIN 60 sec. 2) SOLDERING IRONS : TMP. 350 ± 10 °C FOR 5 ± 1 sec.	NO DEFORMATION OF CASE OF EXCESSIVE LOOSENESS OF THE TERMINALS.	X	—

(note1)

WHEN THE SAME VALUE OF CURRENT ARE APPLIED TO ALL CONTACTS AT THE SAME TIME IN ONCE,
SET THE CURRENT TO THE 70 % OF THE RATED CURRENT VALUE.

(note2)

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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HS	SPECIFICATION SHEET	PART NO.	FH55-22S-0.5SH		
	HIROSE ELECTRIC CO., LTD.	CODE NO	CL0580-3707-7-00		2/2