

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

TO
NC

COUNT	DESCRIPTION OF REVISIONS	BY	CHKD	DATE	COUNT	DESCRIPTION OF REVISIONS	BY	CHKD	DATE		
2	RE - F - 08696	S.K	R-7	03.02.12							
APPLICABLE STANDARD											
RATING		OPERATING TEMPERATURE RANGE			STORAGE TEMPERATURE RANGE		-10°C TO 50°C (PACKED CONDITION)				
VOLTAGE		-55°C TO 85°C			OPERATING OR STORAGE HUMIDITY RANGE		RELATIVE HUMIDITY 90 % (MAX)(NOT DRAWD)				
CURRENT		30V AC			APPLICABLE CABLE		t=0.20±0.03mm, GOLD PLATING				
CURRENT		0.3A									
SPECIFICATIONS											
ITEM		TEST METHOD			REQUIREMENTS		QT AT				
GENERAL EXAMINATION		VISUALLY AND BY MEASURING INSTRUMENT.			ACCORDING TO DRAWING.						
MARKING		CONFIRMED VISUALLY.									
ELECTRIC CHARACTERISTICS		CONTACT RESISTANCE			AC 20mV MAX. 1mA.		100mΩ MAX.				
INSULATION RESISTANCE		100V DC.			INCLUDING FPC BULK RESISTANCE (L=12mm, THICKNESS OF COPPER FOLL: 35 μm)						
VOLTAGE PROOF		90V AC FOR 1 min.			50 MΩ MIN.						
MECHANICAL CHARACTERISTICS		FPC INSERTION FORCE			MEASURED BY APPLICABLE FPC. (THICKNESS OF FPC SHALL BE t=0.20mm AT INITIAL CONDITION.)		0.15N/PIN MAX. (CONNECTOR, FPC AT INITIAL CONDITION)				
MECHANICAL OPERATION		FPC RETENSION FORCE			MEASURED BY APPLICABLE FPC. (THICKNESS OF FPC SHALL BE t=0.20mm AT INITIAL CONDITION.)		0.30N/PIN MIN. (CONNECTOR, FPC AT INITIAL CONDITION)				
VIBRATION		FREQUENCY 10 TO 55 Hz, HALF AMPLITUDE 0.75mm, - m/s ² FOR 10 CYCLES IN 3 DIRECTIONS.			① CONTACT RESISTANCE: 100 mΩ MAX. ② NO DAMAGE, CRACK AND LOOSENESS OF PARTS.						
SHOCK		981m/s ² DURATION OF PULSE 6 ms AT 3 TIMES IN 3 DIRECTIONS.			① NO ELECTRICAL DISCONTINUITY OF 1 μs. ② CONTACT RESISTANCE: 100 mΩ MAX. ③ NO DAMAGE, CRACK AND LOOSENESS OF PARTS.						
ENVIRONMENTAL CHARACTERISTICS		DAMP HEAT (STEADY STATE)			EXPOSED AT 40 °C. RELATIVE HUMIDITY 90 TO 95%, 96h.		① CONTACT RESISTANCE: 100 mΩ MAX. ② INSULATION RESISTANCE: 50 MΩ MIN. ③ NO DAMAGE, CRACK AND LOOSENESS OF PARTS.				
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 AND LOOSENESS OF PARTS.						
REMARKS											
Unless otherwise specified, refer to JIS C 5402.		DRAWN		DESIGNED		CHECKED		APPROVED		RELEASED	
S OKAMURA		S OKAMURA		R TAKAYASU		M. SHIDA					
02.11.11		02.11.11		02.11.11		02.11.12					
Note QT:Qualification Test AT:Assurance Test X:Applicable Test											
HRS HIROSE ELECTRIC CO., LTD.		SPECIFICATION SHEET		PART NO.		FH23 - *S - 0.3SHW(05)					
CODE NO.(OLD)		DRAWING NO.		CODE NO.		CL 586					
CL		ELC4 - 153547 - 01								1 / 2	

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SPECIFICATIONS

ITEM	TEST METHOD	REQUIREMENTS	QT	AT
RAPID CHANGE OF TEMPERATURE	TEMPERATURE: -55→+15to+35→+85→+15to+35°C TIME 30→ 2~3 → 30→ 2~3 min. UNDER 5 CYCLES.	① CONTACT RESISTANCE: 100 mΩ MAX. ② INSULATION RESISTANCE: 50 MΩ MIN. ③ NO DAMAGE, CRACK AND LOOSENESS OF PARTS.	X	—
DRY HEAT	EXPOSED AT 85 °C, 96 h.	① CONTACT RESISTANCE: 100 mΩ MAX.	X	—
COLD	EXPOSED AT -55°C, 96 h.	② NO DAMAGE, CRACK AND LOOSENESS OF PARTS.	X	—
CORROSION SALT MIST	EXPOSED AT 35°C, 5% SALT WATER SPRAY FOR 96h.	① CONTACT RESISTANCE: 100 mΩ MAX.	X	—
HYDROGEN SULPHIDE [JIS C 0092]	EXPOSED AT 40°C, RELATIVE HUMIDITY 80%, 10 ~ 15 PPM FOR 96h.	② NO DAMAGE, CRACK AND LOOSENESS OF PARTS.	X	—
SURPHUR DIOXIDE [JIS C 0090]	EXPOSED AT 40 °C, RELATIVE HUMIDITY 80%, 25 PPM FOR 96 h.	③ NO EVIDENCE OF CORROSION WHICH AFFECTS TO OPERATION OF CONNECTOR.	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±5°C FOR 5 sec.	NO DEFORMATION OF CASE OF EXCESSIVE LOOSENESS OF THE TERMINALS.	X	—
SOLDERABILITY	SOLDERED AT SOLDER TEMPERATURE, 235°C FOR IMMERSION DURATION, 2 sec.	A NEW UNIFORM COATING OF SOLDER SHALL COVER A MINIMUM OF 95 % OF THE SURFACE BEING IMMERSSED.	X	—

REMARKS	DRAWN	DESIGNED	CHECKED	APPROVED	RELEASED
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HR5		SPECIFICATION SHEET		PART NO.	
CODE NO.(OLD)	DRAWING NO.		CODE NO.		
CL	ELC4 - 153547 - 01			FH23 - *S - 0.3SHW(05)	CL 586
					2

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