

COUNT	DESCRIPTION OF REVISIONS	BY	CHKD	DATE	COUNT	DESCRIPTION OF REVISIONS	BY	CHKD	DATE
△	2	RE - F - 08696	S.K	R.7	03.03.12	△			
△					△				
APPLICABLE STANDARD									
RATING	OPERATING TEMPERATURE RANGE	-55°C TO 85°C			STORAGE TEMPERATURE RANGE	-10°C TO 50°C(PACKED CONDITION)			
	VOLTAGE	30V AC			OPERATING OR STORAGE HUMIDITY RANGE	RELATIVE HUMIDITY 90 % MAX.(NOT DEWED)			
	CURRENT	0.3A			APPLICABLE CABLE	t=0.20±0.03mm, GOLD PLATING			
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		AC 20mV MAX.,1mA.			100mΩ MAX. INCLUDING FPC BULK RESISTANCE (L=12mm,THICKNESS OF COPPER FOIL: 35 μ m)			×	×
INSULATION RESISTANCE		100V DC.			50 MΩ MIN.			×	×
VOLTAGE PROOF		90V AC FOR 1 min.			NO FLASHOVER OR BREAKDOWN.			×	×
MECHANICAL CHARACTERISTICS									
FPC INSERTION FORCE △		MEASURED BY APPLICABLE FPC. (THICKNESS OF FPC SHALL BE t=0.20mm AT INITIAL CONDITION.)			0.15N/PIN MAX. (CONECTOR, FPC AT INITIAL CONDITION)			×	—
FPC RETENSION FORCE △		MEASURED BY APPLICABLE FPC. (THICKNESS OF FPC SHALL BE t=0.20mm AT INITIAL CONDITION.)			0.30N/PIN MIN. (CONECTOR, FPC AT INITIAL CONDITION)			×	—
MECHANICAL OPERATION		10 TIMES INSERTIONS AND EXTRACTIONS.			① CONTACT RESISTANCE:100 mΩ MAX. ② NO DAMAGE, CRACK AND LOOSENESS OF PARTS.			×	—
VIBRATION		FREQUENCY 10 TO 55 Hz, HALF AMPLITUDE 0.75mm, — m/s ² FOR 10 CYCLES IN 3 DIRECTIONS.			① NO ELECTRICAL DISCONTINUITY OF 1 μs. ② CONTACT RESISTANCE: 100 mΩ MAX.			×	—
SHOCK		981m/s ² , DURATION OF PULSE 6 ms AT 3 TIMES IN 3 DIRECTIONS.			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									
					DRAWN	DESIGNED	CHECKED	APPROVED	RELEASED
					S.OKAMURA	S.OKAMURA	R.TAKAYASU	M.ISHIDA	
					02.11.11	02.11.11	02.11.11	02.11.12	
Unless otherwise specified, refer to JIS C 5402.									
Note QT:Qualification Test AT:Assurance Test ×:Applicable Test									
HS HIROSE ELECTRIC CO., LTD.					SPECIFICATION SHEET			PART NO. FH23 - *S - 0.3SHAW(05)	
CODE NO.(OLD)		DRAWING NO.			CODE NO.			1/2	
CL		ELC4 - 153685 - 01			CL 586				

SPECIFICATIONS					
ITEM	TEST METHOD	REQUIREMENTS	QT	AT	
RAPID CHANGE OF TEMPERATURE	TEMPERATURE -55→+15T0+35→+85→+15T0+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.	×	—	
DRY HEAT	EXPOSED AT 85 °C, 96 h.	① CONTACT RESISTANCE: 100 mΩ MAX.	×	—	
COLD	EXPOSED AT -55°C, 96 h.	② NO DAMAGE, CRACK AND LOOSENESS OF PARTS.	×	—	
CORROSION SALT MIST	EXPOSED AT 35°C, 5% SALT WATER SPRAY FOR 96h.	① CONTACT RESISTANCE: 100 mΩ MAX.	×	—	
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.	×	—	
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.	×	—	
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.	×	—	
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 IMMERSED.	×	—	

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	S.OKAMURA	S.OKAMURA	R.TAKAYASU	M.ISHIDA	
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