

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.T	03.03.12					

APPLICABLE STANDARD		OPERATING TEMPERATURE RANGE	STORAGE TEMPERATURE RANGE
		-55°C TO 85°C	-10°C TO 50°C (CRACKED CONDITION)
RATING		VOLTAGE	RELATIVE HUMIDITY 90% MAX (NOT DRYED)
		30V AC	
CURRENT		0.3A	APPLICABLE CABLE
			t=0.20±0.03mm, GOLD PLATING

SPECIFICATIONS

ITEM	TEST METHOD	REQUIREMENTS	QT	AT
------	-------------	--------------	----	----

CONSTRUCTION	VISUALLY AND BY MEASURING INSTRUMENT.	ACCORDING TO DRAWING.	X	X
GENERAL EXAMINATION	CONFIRMED VISUALLY.		X	X

ELECTRIC CHARACTERISTICS		TEST METHOD	REQUIREMENTS	QT	AT
CONTACT RESISTANCE	AC 20mV MAX., 1mA.		100mΩ MAX. INCLUDING FPC BULK RESISTANCE (L=12mm, THICKNESS OF COPPER FOLL. 35 μ m)	X	X
INSULATION RESISTANCE	100V DC.		50 MΩ MIN.	X	X
VOLTAGE PROOF	90V AC FOR 1 min.		NO FLASHOVER OR BREAKDOWN.	X	X

MECHANICAL CHARACTERISTICS		TEST METHOD	REQUIREMENTS	QT	AT
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)	X	-
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)	X	-

MECHANICAL OPERATION	10 TIMES INSERTIONS AND EXTRACTIONS.		① CONTACT RESISTANCE: 100 mΩ MAX. ② NO DAMAGE, CRACK AND LOOSENESS OF PARTS.	X	-
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. ③ NO DAMAGE, CRACK AND LOOSENESS OF PARTS.	X	-
SHOCK	981m/s ² , DURATION OF PULSE 6 ms AT 3 TIMES IN 3 DIRECTIONS.		③ NO DAMAGE, CRACK AND LOOSENESS OF PARTS.	X	-

ENVIRONMENTAL CHARACTERISTICS		TEST METHOD	REQUIREMENTS	QT	AT
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.	X	-
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. (AT HIGH HUMIDITY) ② INSULATION RESISTANCE: 50 MΩ MIN. (AT DRY) ③ INSULATION RESISTANCE: 50 MΩ MIN. (AT DRY) ④ NO DAMAGE, CRACK AND LOOSENESS OF PARTS.	X	-

REMARKS	DRAWN	DESIGNED	CHECKED	APPROVED	RELEASED
Unless otherwise specified, refer to JIS C 5402.	S.OKAMURA 02.11.11	S.OKAMURA 02.11.11	R.TAKAYASU 02.11.11	M.ISHIDA 02.11.12	

Note QT: Qualification Test AT: Assurance Test X: Applicable Test

HRS HIROSE ELECTRIC CO., LTD.	SPECIFICATION SHEET	PART NO.
CODE NO. (OLD)	DRAWING NO.	CL
CL	ELC4 - 153685 - 01	FH23 - *S - 0.3SHAW(05)
		CL 586

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

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. ② NO DAMAGE, CRACK AND LOOSENESS OF PARTS.	X	—
COLD	EXPOSED AT -55°C, 96 h.	① CONTACT RESISTANCE: 100 mΩ MAX. 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. ② NO DAMAGE, CRACK AND LOOSENESS OF PARTS.	X	—
HYDROGEN SULPHIDE	EXPOSED AT 40°C, RELATIVE HUMIDITY 80%, 10 ~ 15 PPM FOR 96h.	② NO DAMAGE, CRACK AND LOOSENESS OF PARTS. ③ NO EVIDENCE OF CORROSION WHICH AFFECTS TO OPERATION OF CONNECTOR.	X	—
SURPHUR DIOXIDE	EXPOSED AT 40 °C, RELATIVE HUMIDITY 80%, [JIS C 0090] 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 IMMERSERD.	X	—

REMARKS	DRAWN	DESIGNED	CHECKED	APPROVED	RELEASED
Unless otherwise specified, refer to JIS C 5402. Note QT: Qualification Test AT: Assurance Test X: Applicable Test	S. OKAMURA 02.11.11	S. OKAMURA 02.11.11	R. TAKAYASU 02.11.11	M. SHIDA 02.11.12	

HRS HIROSE ELECTRIC CO., LTD.		SPECIFICATION SHEET		PART NO.	
CODE NO.(OLD)	DRAWING NO.			CODE NO.	
CL	ELC4 - 153685 - 01			CL 586	
					2

TO
NC