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

APPLICABLE STANDARD				
RATING	OPERATING TEMPERATURE RANGE	-35°C TO +85°C(NOTE 1)	STORAGE TEMPERATURE RANGE	-10°C TO +60°C
	VOLTAGE	100 V AC	APPLICABLE CONNECTOR	DF19*-20P-1H(56)
	CURRENT	0.5 A		

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	100 m A (DC OR 1000 Hz).	50 mΩ MAX.	○	—
INSULATION RESISTANCE	100 V DC.	500 MΩ MIN.	○	—
VOLTAGE PROOF	300 V AC FOR 1 min.	NO FLASHOVER OR BREAKDOWN.	○	—
MECHANICAL CHARACTERISTICS				
INSERTION AND WITHDRAWAL FORCES	MEASURED BY APPLICABLE CONNECTOR	INSERTION FORCE 30 N MAX EXTRACTION FORCE 10 N MIN	○	–
MECHANICAL OPERATION	30 TIMES INSERTIONS AND EXTRACTIONS.	① CONTACT RESISTANCE: 30 mΩ MAX. ② NO DAMAGE, CRACK OR LOOSENESS OF PARTS.	○	–
VIBRATION	FREQUENCY 10 TO 55 Hz, SINGLE AMPLITUDE 0.75 mm, AT 2 h, FOR 3 DIRECTIONS.	① NO ELECTRICAL DISCONTINUITY OF 1 μs. ② NO DAMAGE, CRACK OR LOOSENESS OF PARTS.	○	–
SHOCK	490 m/s^2 DURATION OF PULSE 11 ms AT 3 TIMES FOR 3 DIRECTIONS.		○	–
ENVIRONMENTAL CHARACTERISTICS				
RAPID CHANGE OF TEMPERATURE	TEMPERATURE -55→5 TO 35→+85 →5 TO 35 °C TIME 30→2 TO 3 → 30 →2 TO 3 min UNDER 5 CYCLES.	① CONTACT RESISTANCE: 30 mΩ MAX. ② INSULATION RESISTANCE: 500 MΩ MIN. ③ NO DAMAGE, CRACK OR LOOSENESS OF PARTS.	○	–
DAMP HEAT (STEADY STATE)	EXPOSED AT 40 ± 2 °C, 90 TO 95 %, 96 h.		○	–

	COUNT	DESCRIPTION OF REVISIONS	DESIGNED	CHECKED	DATE
0					

REMARKS
NOTE1: INCLUDE THE TEMPERATURE RISING BY CURRENT.
NOTE2:*=TERMINATION STYLE MARKING
(C:CRIMP SOCKET, F:FPC SOCKET, SD:SOCKET FOR FINE COAXIAL CABLES)
Unless otherwise specified, refer to JIS C 5402.

APPROVED	TY.OMA	05.11.04
CHECKED	HK.UMEHARA	05.10.31
DESIGNED	TS.KUMAZAWA	05.10.31
DRAWN	AH.MIYAZAKI	05.10.31

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

DRAWING NO. ELC4-162454-02

HRS

SPECIFICATION SHEET

HIROSE ELECTRIC CO., LTD.

PART NO. DF19G-20S-1F(05)

CODE NO. CL685-0009-4-05 0

FORM HD0011-2-1