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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 (NOTE3)	
	OPERATING HUMIDITY RANGE	40% TO 80% (NOTE2)	STORAGE HUMIDITY TANGE	40% TO 70% (NOTE3)	
	VOLTAGE	100 V AC (DC)	APPL ICABLE CONNECTOR	DF19 (G) - * S-1# (NOTE4)	
	CURRENT	AWG28: 1A AWG30: 0.9A AWG32: 0.8A			
SPECIFICATIONS					
ITEM	TEST METHOD	REQUIREMENTS	QT	AT	
CONSTRUCTION					
GENERAL EXAMINATION	VISUALLY AND BY MEASURING INSTRUMENT.	ACCORDING TO DRAWING.	X	X	
MARKING	CONFIRMED VISUALLY.		X	X	
ELECTRIC CHARACTERISTICS					
CONTACT RESISTANCE	AC 20mV MAX 1mA (DC OR 1000 Hz).	30 mΩ MAX.	X	-	
INSULATION RESISTANCE	100 V DC.	500 MΩ MIN.	X	-	
VOLTAGE PROOF	300 V AC FOR 1 min.	NO FLASHOVER OR BREAKDOWN.	X	-	
MECHANICAL CHARACTERISTICS					
MECHANICAL OPERATION	30 TIMES INSERTIONS AND EXTRACTIONS.	① CONTACT RESISTANCE: 30 mΩ MAX. ② NO DAMAGE, CRACK OR LOOSENESS OF PARTS.	X	-	
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.	X	-	
SHOCK	490 m/s ² DURATION OF PULSE 11 ms AT 3 TIMES FOR 3 DIRECTIONS.		X	-	
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.	X	-	
DAMP HEAT (STEADY STATE)	EXPOSED AT 40 ± 2 °C, 90 TO 95 %, 96 h.		X	-	
RESISTANCE TO SOLDERING HEAT	(1) REFLOW SOLDERING «REFLOW AREA» MAX 250°C WITHIN 10 sec MIN 230°C WITHIN 60 sec «PREHEATING AREA» 170°C TO 190 °C 60sec TO 120sec PUT THROUGH IN REFLOW FUMACE TWICE. LEAVE IN AMBIENT TEMPERATURE AND HUMIDITY FOR 1 HOUR (2) MANUAL SOLDERING SOLDERING IRON TEMPERATURE 350±5 °C, FOR 5 ±1 sec NO STRENGTH ON CONTACT.	NO DEFORMATION OF CASE OF EXCESSIVE LOOSENESS OF THE TERMINALS.	X	-	
SOLDERABILITY	SOLDERING TEMPERATURE : 245°C DURATION OF IMMERSION : SOLDERING, FOR 5 sec	A NEW UNIFORM COATING OF SOLDER SHALL COVER MINIMUM OF 95 % OF THE SURFACE BEING IMMersed.	X	-	
REMARKS					
NOTE1: INCLUDING THE TEMPERATURE RISE BY CURRENT.					
NOTE2:NO CONDENSING					
NOTE3:APPLY TO THE CONDITION OF LONGTERM STORAGE FOR UNUSED PRODUCTS BEFORE PCB ON BOARD, AFTER PCB BOARD, OPERATING TEMPERATURE AND HUMIDITY RANGE IS APPLIED FOR INTERIM STORAGE DURING TRANSPORTATION.					
NOTE4:#=TERMINATION STYLE MARKING. (C:CRIMP SOCKET,F:FPC SOCKET,SD:SOCKET FOR FINE COAXIAL CABLES)					
	COUNT	DESCRIPTION OF REVISIONS	DESIGNED	CHECKED	DATE
△					
Unless otherwise specified, refer to JIS C 5402.			APPROVED	HK. UMEHARA	13. 09. 27
			CHECKED	HK. UMEHARA	13. 09. 27
			DESIGNED	YK. YAMAGUCHI	13. 09. 26
			DRAWN	YK. YAMAGUCHI	13. 09. 26
Note QT:Qualification Test AT:Assurance Test X:Applicable Test			DRAWING NO.		ELG4-162023-03
HRS	SPECIFICATION SHEET		PART NO.	DF19G-20P-1H (54)	
	HIROSE ELECTRIC CO., LTD.		CODE NO.	CL685-0006-6-54	△ 1/1