


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)	APPLICABLE CONNECTOR	DF19 (G) -*S-1# (NOTE4) 
	CURRENT	AWG28: 1A AWG30: 0.9A AWG32: 0.8A		

### SPECIFICATIONS

ITEM	TEST METHOD	REQUIREMENTS	QT	AT
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#### 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 <sup>2</sup> 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
	1	DIS-H-004462	YK. NAKATSU	TS. FUKUSHIMA	10. 01. 08

Unless otherwise specified, refer to JIS C 5402.	APPROVED	TS. SAKATA	09. 03. 02
	CHECKED	TS. KUMAZAWA	09. 03. 02
	DESIGNED	SN. KOBAYASHI	09. 02. 26
	DRAWN	SN. KOBAYASHI	09. 02. 26

Note QT:Qualification Test AT:Assurance Test X:Applicable Test DRAWING NO. ELC4-311645-01

	SPECIFICATION SHEET	PART NO.	DF19L-*P-1H (54)
	HIROSE ELECTRIC CO., LTD.	CODE NO.	CL685-  1/1