

APPLICABLE STANDARD				
RATING	OPERATING TEMPERATURE RANGE	-35°C TO +85°C (NOTE 1)	STORAGE TEMPERATURE RANGE	-10°C TO +60°C (NOTE 2)
	OPERATING HUMIDITY RANGE	40% TO 80%	STORAGE HUMIDITY RANGE	40% TO 70% (NOTE 2)
	VOLTAGE	100V AC	APPLICABLE CONNECTOR	DF20A-DS-1C
	CURRENT	AWG28 : 1A AWG30 : 0.9A AWG32 : 0.7A		

### 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 MILLIVOLT LEVEL METHOD	20mV MAX, 1 mA (DC OR 1000 Hz).	30mΩ MAX.	X	—
INSULATION	100V DC.	500MΩ MIN.	X	—
VOLTAGE PROOF	300V AC FOR 1 min.	NO FLASHOVER OR BREAKDOWN.	X	—

#### MECHANICAL CHARACTERISTICS

MECHANICAL OPERATION	50 TIMES INSERTION AND EXTRACTION.	① CONTACT RESISTANCE: 30mΩ 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: 30mΩ MAX. ② INSULATION RESISTANCE: 500MΩ 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	—
CORROSION,SALT MIST	EXPOSED IN 5% SALT WATER SPRAY FOR 48 h.		X	—
SULPHUR DIOXIDE	EXPOSED N 10 PPM FOR 96 h. (TEST STANDARD:JEIDA-39)	NO HEAVY CORROSION.	X	—
RESISTANCE TO SOLDERING HEAT (REFLOW)	《REFLOW AREA》 250°C MAX WITHIN 10 sec. 220°C MIN WITHIN 60sec. 《PREHEATING AREA》 150 °C 60 TO 120 sec. PUT THROUGH IN REFLOW FURNACE TWICE. LEAVE IN AMBIENT TEMPERATURE AND HUMIDITY FOR 1 HOUR. CONNECTOR TEMPERATURE TO BE AMBIENT FOR SECOND REFLOW.	NO DEFORMATION OF CASE OF EXCESSIVE LOOSENESS OF THE TERMINALS.	X	—
RESISTANCE TO SOLDERING HEAT (MANUAL)	SOLDERING IRON TEMPERATURE :300°C, SOLDERING TIME :3sec. NO STRENGTH ON CONTACT.			
SOLDERABILITY	SOLDERED AT SOLDER TEMPERATURE, 245°C FOR IN IMMERSION , DURATION, 5 s.	A NEW UNIFORM COATING OF SOLDER SHALL COVER MINIMUM OF 95 % OF THE SURFACE BEING IMMersed.	X	—

COUNT	DESCRIPTION OF REVISIONS	DESIGNED	CHECKED	DATE
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REMARKS NOTE 1:INCLUDING THE TEMPERATURE RISING BY CURRENT. NOTE 2:APPLY TO THE CONDITION OF LONG TERM STORAGE FOR UNUSED PRODUCTS BEFORE PCB ON BOARD. AFTER PCB BOARD, OPERATING TEMPERATURE AND HUMIDITY RANGE IS APPLIED FOR INTERIM STORAGE DURING TRANSPORTATION. Unless otherwise specifid , refer to JIS C 5402.	APPROVED	TS. SAKATA	10.03.29
	CHECKED	TS. FUKUSHIMA	10.03.27
	DESIGNED	TH. YOSHI ZAWA	10.03.27
	DRAWN	YK. NAKATSU	10.03.26

Note QT:Qualification Test AT:Assurance Test X:Applicable Test	DRAWING NO.	ELC4-164847-04
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<b>HRS</b>	SPECIFICATION SHEET	PART NO.	DF20G-**DP-1V (56)
	HIROSE ELECTRIC CO., LTD.	CODE NO.	CL686
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