

APPLICABLE STANDARD					
RATING	OPERATING TEMPERATURE RANGE	-35°C TO + 85°C (NOTE 1)	STORAGE TEMPERATURE RANGE	-10°C TO + 60°C	
	VOLTAGE	100V AC	APPLICABLE CONNECTOR	DF20A-*DS-1C	
	CURRENT	AWG28: 1A, AWG30:0.9A, AWG32:0.7A	APPLICABLE CABLE	—	
<b>SPECIFICATIONS</b>					
ITEM		TEST METHOD		REQUIREMENTS	
<b>CONSTRUCTION</b>					
GENERAL EXAMINATION		VISUALLY AND BY MEASURING INSTRUMENT.		ACCORDING TO DRAWING.	
MARKING		CONFIRMED VISUALLY.		X	X
<b>ELECTRIC CHARACTERISTICS</b>					
CONTACT RESISTANCE		100 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 —
<b>MECHANICAL CHARACTERISTICS</b>					
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 1μs. 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 —
<b>ENVIRONMENTAL CHARACTERISTICS</b>					
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.		NO HEAVY CORROSION.	X —
SULPHUR DIOXIDE		EXPOSED IN 10 PPM FOR 96 h. (TEST STANDARD: JEIDA-39)			X —
RESISTANCE TO SOLDERING HEAT		1) AUTOMATIC SOLDERING (REFLOW) 《REFLOW AREA》 MAX 250°C WITHIN 10 sec. MIN 220°C WITHIN 60 sec. 《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. 2) MANUAL SOLDERING SOLDERING IRON TEMPERATURE :300°C, SOLDERING TIME :3sec. NO STRENGTH ON CONTACT.		NO DEFORMATION OF CASE OF EXCESSIVE LOOSENESS OF THE TERMINALS.	X —
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
△					
REMARKS			APPROVED	TY. OMA	06.02.04
NOTE 1: INCLUDING THE TEMPERATURE RISING BY CURRENT.			CHECKED	HK. UMEHARA	06.02.04
Unless otherwise specified, refer to JIS C 5402.			DESIGNED	SZ. ONO	06.02.03
			DRAWN	SZ. ONO	06.02.03
Note QT: Qualification Test AT: Assurance Test X: Applicable Test			DRAWING NO.		ELC4-164529-03
<b>HRS</b>	SPECIFICATION SHEET		PART NO.	DF20F-*DP-1V (55)	
	HIROSE ELECTRIC CO., LTD.		CODE NO.	CL686	△ 1/