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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	20 % TO 80 % (NOTE2)	STORAGE HUMIDITY RANGE	40 % TO 70 % (NOTE3)	
	VOLTAGE	AC/DC 100V	APPLICABLE SOCKET	DF50#-*DS-1C、DF50A-*S-1C	
	CURRENT	AWG 30 : 0.9 A AWG 32 : 0.7 A	APPLICABLE CONNECTOR	DF50-*DP-1V(##)、DF50-*DP-1H(##) DF50A-*P-1V(##)、DF50A-*P-1H(##)	
			APPLICABLE CABLE	AWG#30-32	
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).	30mΩ MAX.	X	-	
MECHANICAL CHARACTERISTICS					
CONTACT INSERTION AND EXTRACTION FORCES	T=0.15±0.002 mm BY STEEL GAUGE.	INSERTION FORCE 1 N MAX. EXTRACTION FORCE 0.08 N MIN.	X	-	
MECHANICAL OPERATION	30TIMES INSERTIONS AND EXTRACTIONS.	① CONTACT RESISTANCE: 50mΩ MAX. ② NO DAMAGE, CRACK OR LOOSENESS OF PARTS.	X	-	
VIBRATION	FREQUENCY 10 TO 55 Hz, SINGLE AMPLITUDE 0.75 mm, AT 10 CYCLES FOR EACH, FOR 3 DIRECTIONS.	① NO ELECTRICAL DISCONTINUITY OF 1μs. 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					
DAMP HEAT (STEADY STATE)	EXPOSED AT 40 ± 2 °C, 90 TO 95 %, 96 h.	① CONTACT RESISTANCE: 50mΩ MAX. ② NO DAMAGE, CRACK OR LOOSENESS OF PARTS.	X	-	
RAPID CHANGE OF TEMPERATURE	TEMPERATURE -55→+85°C TIME 30→ 30min. UNDER 5 CYCLES. (THE TRANSFERRING TIME OF THE TANK IS 2-3 min)		X	-	
REMARKS					
NOTE 1: INCLUDING THE TEMPERATURE RISE BY CURRENT.					
NOTE 2: NON-CONDENSING					
NOTE 3: 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					
	COUNT	DESCRIPTION OF REVISIONS	DESIGNED	CHECKED	DATE
					
			APPROVED	KI. AKIYAMA	15. 11. 18
			CHECKED	TS. FUKUSHIMA	15. 11. 18
			DESIGNED	TS. MIYAKI	15. 11. 17
			DRAWN	TS. MIYAKI	15. 11. 17
UNLESS OTHERWISE SPECIFIED , REFER TO IEC 60512					
Note QT:Qualification Test AT:Assurance Test X:Applicable Test			DRAWING NO.		ELC-366408-00-00
	SPECIFICATION SHEET		PART NO.	DF50-3032SCFA	
	HIROSE ELECTRIC CO., LTD.		CODE NO.	CL665-0026-0-00	 1/1