

APPLICABLE STANDARD		SPECIFICATIONS							
RATING	OPERATING TEMPERATURE RANGE	-45 °C TO 125 °C(NOTES 1)		STORAGE TEMPERATURE RANGE	-10 °C TO 60 °C(NOTES 2)				
	VOLTAGE	50 V AC							
	CURRENT	0.3 A							
CONSTRUCTION									
GENERAL EXAMINATION		VISUALLY AND BY MEASURING INSTRUMENT.		ACCORDING TO DRAWING.					
MARKING		CONFIRMED VISUALLY.		X X					
ELECTRIC CHARACTERISTICS									
CONTACT RESISTANCE		20 mV AC OR LESS 1 kHz, 1 mA.		50 mΩ MAX.					
INSULATION RESISTANCE		100 V DC		500 MΩ MAX					
VOLTAGE PROOF		150 V AC FOR 1 min.		NO FLASHOVER OR BREAKDOWN.					
MECHANICAL CHARACTERISTICS									
MECHANICAL OPERATION		50 TIMES INSERTIONS AND WITHDRAWALS.		① CONTACT RESISTANCE: 50 mΩ MAX. ② NO DAMAGE, CRACK AND LOOSENESS OF PARTS.					
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 AND LOOSENESS OF PARTS.					
SHOCK		490 m/s <sup>2</sup> DURATION OF PULSE 11 ms AT 3 TIMES FOR 3 DIRECTIONS.		① NO ELECTRICAL DISCONTINUITY OF 1 μs. ② NO DAMAGE, CRACK AND LOOSENESS OF PARTS.					
ENVIRONMENTAL CHARACTERISTICS									
RAPID CHANGE OF TEMPERATURE		TEMPERATURE -65 → 15 → 35 → 125 → 15 TO 35 °C TIME 30 → 10 TO 15 → 30 → 10 TO 15 min UNDER 5 CYCLES.		① CONTACT RESISTANCE: 50 mΩ MAX. ② INSULATION RESISTANCE: 500 MΩ MIN. ③ NO DAMAGE, CRACK AND LOOSENESS OF PARTS.					
DAMP HEAT (STEADY STATE)		EXPOSED AT 40 ± 2 °C, 90 TO 95 %, 96 h.		① CONTACT RESISTANCE: 50 mΩ MAX. ② INSULATION RESISTANCE: 500 MΩ MIN. ③ NO DAMAGE, CRACK AND LOOSENESS OF PARTS.					
CORROSION SALT MIST		EXPOSED IN 5% SALT WATER SPRAY FOR 48 h.		① CONTACT RESISTANCE: 50 mΩ MAX. ② NO HEAVY CORROSION.					
SULPHUR DIOXIDE		EXPOSED IN 25 PPM RH 75 % FOR 96 h. (TEST STANDARD:JIS C 60068)		① CONTACT RESISTANCE: 50 mΩ MAX. ② NO HEAVY CORROSION.					
HEAT RESISTANCE OF SOLDERING		【RECOMMENDED TEMPERATURE PROFILE】 『SOLDERING AREA』 MAX250°C, 220°C FOR 60 SECONDS MAX. 『PREHEATING AREA』 150 TO 180°C 90~120 SECONDS. MAXIMUM TWICE ACTION IS ALLOWED UNDER THE SAME CONDITION. 【RECOMMENDED MANUAL SOLDERING CONDITION】 SOLDERING IRON TEMPERATURE 350°C SOLDERING TIME : WITHIN 3 SECONDS.		NO DEFORMATION OF CASE OF EXCESSIVE LOOSENESS OF THE TERMINALS.					
REMARKS									
NOTES1:INCLUDING THE TEMPERATURE RISE BY CURRENT. NOTES2:STORAGE IS DEFINED AS LONG-TERM STORAGE OF UNUSED PRODUCTS. APPLY OPERATION TEMPERATURE RANGE TO PRODUCTS MOUNTED ON PCB WITHOUT POWER SUPPLY. UNLESS OTHERWISE SPECIFIED, REFER TO JIS C 5402.									
	COUNT	DESCRIPTION OF REVISIONS	DESIGNED	CHECKED	DATE				
△									
				APPROVED	WR. FUKUCHI				
				CHECKED	TS. MIYAZAKI				
				DESIGNED	KT. KUSAKA				
				DRAWN	KT. KUSAKA				
Note QT:Qualification Test AT:Assurance Test X:Applicable Test			DRAWING NO.		ELC-389243-51-01				
		SPECIFICATION SHEET		PART NO.	DF12NB (3.0)-10DS-0.5V (51)				
		HIROSE ELECTRIC CO., LTD.		CODE NO.	CL537-0097-0-51				
		△ 1/1							