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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	-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				
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	20 mV AC OR LESS 1 kHz, 1 mA .		50 mΩ MAX.		X	—
INSULATION RESISTANCE	100 V DC		500 MΩ MAX		X	—
VOLTAGE PROOF	150 V AC FOR 1 min.		NO FLASHOVER OR BREAKDOWN.		X	—
MECHANICAL CHARACTERISTICS						
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.		X	—
SHOCK	490 m/s ² 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.		X	—
ENVIRONMENTAL CHARACTERISTICS						
RAPID CHANGE OF TEMPERATURE	TEMPERATURE -65 →15 TO 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.		X	—
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.		X	—
CORROSION SALT MIST	EXPOSED IN 5% SALT WATER SPRAY FOR 48 h.		① CONTACT RESISTANCE: 50 mΩ MAX. ② NO HEAVY CORROSION.		X	—
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.		X	—
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 SOLDELING CONDITION】 SOLDERING IRON TEMPERATURE 350°C SOLDERING TIME : WITHIN 3 SECONDS.		NO DEFORMATION OF CASE OF EXCESSIVE LOOSENESS OF THE TERMINALS.		X	—
REMARKS						
NOTE 1:INCLUDING THE TEMPERATURE RISE BY CURRENT.						
NOTE 2: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	20190828	
			CHECKED	TS. MIYAZAKI	20190827	
			DESIGNED	KT. KUSAKA	20190827	
			DRAWN	KT. KUSAKA	20190827	
Note	QT:Qualification Test AT:Assurance Test X:Applicable Test		DRAWING NO.		ELC-389275-51-01	
	SPECIFICATION SHEET		PART NO.	DF12NB (3. 0) -10DP-0. 5V (51)		
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