

In case of consideration for using Automotive equipment / device which demand high reliability, kindly contact our sales window correspondents.



APPLICABLE STANDARD		STORAGE TEMPERATURE RANGE	-10°C T <sub>0</sub> + 60°C (NOTE2)
RATING	OPERATING TEMPERATURE RANGE	-45°C T <sub>0</sub> +125°C (NOTES 1)	
	VOLTAGE	150V AC	DF9#-*P-1V(69)
	CURRENT	0.5A	

### SPECIFICATIONS

ITEM	TEST METHOD	REQUIREMENTS	QT	AT
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<b>CONSTRUCTION</b>				
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GENERAL EXAMINATION	VISUALLY AND BY MEASURING INSTRUMENT.	ACCORDING TO DRAWING.	X	X
MARKING	CONFIRMED VISUALLY.		X	X

<b>ELECTRIC CHARACTERISTICS</b>				
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CONTACT RESISTANCE	100m A(DC OR 1000 HZ).	50mΩ MAX.	X	-
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INSULATION RESISTANCE	100V DC.	500MΩ MIN.	X	-
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VOLTAGE PROOF	250V AC FOR 1 min.	NO FLASHOVER OR BREAKDOWN.	X	-
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<b>MECHANICAL CHARACTERISTICS</b>				
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MECHANICAL OPERATION	100TIMES INSERTIONS AND EXTRACTATIONS.	① CONTACT RESISTANCE: 50mΩ MAX. ② NO DAMAGE, CRACK OR LOOSENESS OF PARTS.	X	-
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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	-
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SHOCK	490 m/s <sup>2</sup> DURATION OF PULSE 11 ms AT 3 TIMES FOR 3 DIRECTIONS.	① NO ELECTRICAL DISCONTINUITY OF 1μs. ② NO DAMAGE, CRACK OR LOOSENESS OF PARTS.	X	-
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### ENVIRONMENTAL CHARACTERISTICS

RAPID CHANGE OF TEMPERATURE	TEMPERATURE -65 → 5 TO 35 → 125 → 5 TO 35°C TIME 30→10 TO 15 → 30→10 TO 15min UNDER 5 CYCLES.	① CONTACT RESISTANCE: 50mΩ MAX. ② INSULATION RESISTANCE: 500 MΩ MIN. ③ NO DAMAGE, CRACK OR LOOSENESS OF PARTS.	X	-
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DAMP HEAT (STEADY STATE)	EXPOSED AT 40 ± 2 °C, 90 TO 95 %, 96 h.	① CONTACT RESISTANCE: 50mΩ MAX. ② INSULATION RESISTANCE: 500 MΩ MIN. ③ NO DAMAGE, CRACK OR LOOSENESS OF PARTS.	X	-
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CORROSION SALT MIST	EXPOSED IN 5% SALT WATER SPRAY FOR 48 h.	① CONTACT RESISTANCE: 50 mΩ MAX. ② NO HEAVY CORROSION.	X	-
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SULPHUR DIOXIDE	EXPOSED IN 10 PPM FOR 96 h. (TEST STANDARD: JEIDA-39)	① CONTACT RESISTANCE: 50 mΩ MAX. ② NO HEAVY CORROSION.	X	-
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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 380°C SOLDERING TIME : WITHIN 3 SECONDS.	NO DEFORMATION OF CASE OF EXCESSIVE LOOSENESS OF THE TERMINALS.	X	-
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SOLDERABILITY	SOLDERING TEMPERATURE: 245 ± 5°C DURATION OF IMMERSION : SOLDERING FOR 3SECONDS	A NEW UNIFORM COATING OF SOLDER SHALL COVER MINIMUM OF 95% OF THE SURFACE BEING IMMERSSED.	X	-
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**REMARKS**

NOTE1: INCLUDING THE TEMPERATURE RISE BY CURRENT.  
NOTE2: STORAGEIS 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
1	DIS-H-001224	AR, TAKAHASHI	TS, MIYAZAKI	06.08.01
		APPROVED	TY, OMA	04.04.02
		CHECKED	TY, OMA	04.04.02
		DESIGNED	HK, UMEHARA	04.04.01
		DRAWN	MY, NAKAMOTO	04.04.01

Note QT:Qualification Test AT:Assurance Test X:Applicable Test DRAWING NO. **ELC4-160019-13**

<b>SPECIFICATION SHEET</b>		PART NO.	<b>DF9B-*S-1V(69)</b>	
<b>HIROSE ELECTRIC CO., LTD.</b>		CODE NO.	<b>CL540</b>	