

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

APPLICABLE STANDARD		OPERATING TEMPERATURE RANGE		STORAGE TEMPERATURE RANGE																																							
		-35°C TO 85°C (NOTES 1)		-10°C TO 60°C																																							
RATING	VOLTAGE	30V AC	APPLICABLE CONNECTOR	DF37*-*DP-0.4V (**)																																							
	CURRENT	0.3A																																									
SPECIFICATIONS																																											
ITEM	TEST METHOD			REQUIREMENTS																																							
CONSTRUCTION				QT	AT																																						
GENERAL EXAMINATION		CONFIRMED VISUALLY AND BY MEASURING INSTRUMENT.	ACCORDING TO DRAWING.																																								
MARKING		CONFIRMED VISUALLY.	X																																								
ELECTRIC CHARACTERISTICS			X																																								
CONTACT RESISTANCE	20mV AC OR LESS 1kHz, 1m A.	100mΩ MAX.	X																																								
INSULATION RESISTANCE	100V DC.	50MΩ MIN.	X																																								
VOLTAGE PROOF	100V AC FOR 1 min.	NO FLASHOVER OR BREAKDOWN.	X																																								
MECHANICAL CHARACTERISTICS																																											
INSERTION AND WITHDRAWAL FORCES	MEASURED BY APPLICABLE CONNECTOR		<table border="1"> <thead> <tr> <th>PIN COUNTS</th> <th>INSERTION FORCE (N MAX.)</th> <th>WITHDRAWAL FORCE (N MIN.)</th> </tr> </thead> <tbody> <tr><td>10</td><td>15.4</td><td>2.6</td></tr> <tr><td>16</td><td>20.7</td><td>3.6</td></tr> <tr><td>20</td><td>24.3</td><td>4.4</td></tr> <tr><td>24</td><td>27.8</td><td>5.1</td></tr> <tr><td>30</td><td>33.1</td><td>6.2</td></tr> <tr><td>34</td><td>40.8</td><td>8.9</td></tr> <tr><td>40</td><td>41.9</td><td>8</td></tr> <tr><td>44</td><td>45.4</td><td>8.7</td></tr> <tr><td>50</td><td>50.7</td><td>9.8</td></tr> <tr><td>60</td><td>59.5</td><td>11.7</td></tr> <tr><td>70</td><td>68.4</td><td>13.5</td></tr> <tr><td>74</td><td>71.9</td><td>14.2</td></tr> </tbody> </table>		PIN COUNTS	INSERTION FORCE (N MAX.)	WITHDRAWAL FORCE (N MIN.)	10	15.4	2.6	16	20.7	3.6	20	24.3	4.4	24	27.8	5.1	30	33.1	6.2	34	40.8	8.9	40	41.9	8	44	45.4	8.7	50	50.7	9.8	60	59.5	11.7	70	68.4	13.5	74	71.9	14.2
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MECHANICAL OPERATION	10TIMES INSERTIONS AND EXTRactions.		① CONTACT RESISTANCE: 100mΩ MAX. ② NO DAMAGE, CRACK OR LOOSENESS OF PARTS.																																								
VIBRATION	FREQUENCY 10 TO 55 TO 10 Hz, APPROX 5min, SINGLE AMPLITUDE 0.75 mm, 100CYCLES, FOR 3 DIRECTIONS.		① NO ELECTRICAL DISCONTINUITY OF 1 μS. ② NO DAMAGE, CRACK OR 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 OR LOOSENESS OF PARTS.																																								
ENVIRONMENTAL CHARACTERISTICS																																											
RAPID CHANGE OF TEMPERATURE	TEMPERATURE -55 → 85 °C TIME 30 → 30 min UNDER 5 CYCLES. (RELOCATION TIME TO CHAMBER: WITHIN 2 ~3 MIN)		① CONTACT RESISTANCE: 100mΩ MAX. ② INSULATION RESISTANCE: 50MΩ MIN. ③ NO DAMAGE, CRACK OR LOOSENESS OF PARTS.																																								
DAMP HEAT (STEADY STATE)	EXPOSED AT 40 ± 2 °C, 90 TO 95 %, 96 h.		① CONTACT RESISTANCE: 100mΩ MAX. ② INSULATION RESISTANCE: 25MΩ MIN. ③ NO DAMAGE, CRACK OR LOOSENESS OF PARTS.																																								
SULPHUR DIOXIDE	EXPOSED IN 25 PPM FOR 96h, 25°C, 75%. (REFER TO JIS C 60068)		① CONTACT RESISTANCE: 100mΩ MAX. ② NO DAMAGE, CRACK OR LOOSENESS OF PARTS.																																								
SALT MIST	EXPOSED IN 5% SALT MIST FOR 48h.		① CONTACT RESISTANCE: 100mΩ MAX. ② NO DAMAGE, CRACK OR LOOSENESS OF PARTS.																																								
COUNT	DESCRIPTION OF REVISIONS	DESIGNED	CHECKED	DATE																																							
△ 1	DIS-H-005746	KR. AJITO	TS. MIYAZAKI	11.05.16																																							
REMARKS																																											
NOTE1: INCLUDE THE TEMPERATURE RISING BY CURRENT																																											
Unless otherwise specified, refer to JIS C 5402 and IEC 60512																																											
Note QT:Qualification Test AT:Assurance Test X:Applicable Test		DRAWING NO.		ELC4-319685-02																																							
<b>HRS</b>		SPECIFICATION SHEET		DF37NB-*DS-0.4V (51)																																							
		HIROSE ELECTRIC CO., LTD.		CL684																																							
		PART NO.	CODE NO.	△ 1/1																																							