



**THE DATASHEET OF  
DF37B-30DP-0.4V(51)**





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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 (NOTES 1)	STORAGE TEMPERATURE RANGE	-10°C TO 60°C																																										
	VOLTAGE	30V AC	APPLICABLE CONNECTOR	DF37*-*DS-0.4V (**)																																										
	CURRENT	0.3A																																												
SPECIFICATIONS																																														
ITEM	TEST METHOD		REQUIREMENTS	QT	AT																																									
CONSTRUCTION																																														
GENERAL EXAMINATION	CONFIRMED VISUALLY AND BY MEASURING INSTRUMENT.		ACCORDING TO DRAWING.	X	X																																									
MARKING	CONFIRMED VISUALLY.			X	X																																									
ELECTRIC CHARACTERISTICS																																														
CONTACT RESISTANCE	20mV AC OR LESS 1kHz,1mA .		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 rowspan="2">PIN COUNTS</th> <th>INSERTION FORCE</th> <th>WITHDRAWAL FORCE</th> </tr> <tr> <th>{ N MAX }</th> <th>{ 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>6.9</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	WITHDRAWAL FORCE	{ N MAX }	{ 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	6.9	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	X	—
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MECHANICAL OPERATION	10TIMES INSERTIONS AND EXTRACTIONS.	① CONTACT RESISTANCE: 100mΩ MAX. ② NO DAMAGE, CRACK OR LOOSENESS OF PARTS.	X	—																																										
VIBRATION	FREQUENCY 10 TO 55 TO 10 Hz, APPROX 5min, SINGLE AMPLITUDE 0.75 mm, 10CYCLES, FOR 3 DIRECTIONS.	① NO ELECTRICAL DISCONTINUITY OF 1 μs. ② NO DAMAGE, CRACK OR LOOSENESS OF PARTS.	X	—																																										
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.	X	—																																										
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.	X	—																																									
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.	X	—																																									
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.	X	—																																									
SALT MIST	EXPOSED IN 5% SALT MIST FOR 48h.		① CONTACT RESISTANCE: 100mΩ MAX. ② NO DAMAGE, CRACK OR LOOSENESS OF PARTS.	X	—																																									
	COUNT	DESCRIPTION OF REVISIONS	DESIGNED	CHECKED	DATE																																									
	1	DIS-H-005746	KR. AJITO	TS. MIYAZAKI	11.05.16																																									
REMARKS			APPROVED	MO. NAKAMURA	07.01.30																																									
NOTE1: INCLUDE THE TEMPERATURE RISING BY CURRENT			CHECKED	KH. IKEDA	07.01.30																																									
Unless otherwise specified, refer to JIS C 5402 and IEC 60512			DESIGNED	KY. MIDORIKAWA	07.01.30																																									
			DRAWN	KY. MIDORIKAWA	07.01.30																																									
Note QT:Qualification Test AT:Assurance Test X:Applicable Test			DRAWING NO.		ELG4-314914-01																																									
	SPECIFICATION SHEET		PART NO.	DF37B-*DP-0.4V (51)																																										
	HIROSE ELECTRIC CO., LTD.		CODE NO.	CL684	1/1																																									

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