

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																																							
	CURRENT	0.3A		DF37*-*DS-0.4V (**)																																							
SPECIFICATIONS																																											
ITEM	TEST METHOD			REQUIREMENTS																																							
CONSTRUCTION				QT																																							
GENERAL EXAMINATION				AT																																							
MARKING		CONFIRMED VISUALLY AND BY MEASURING INSTRUMENT.	ACCORDING TO DRAWING.																																								
CONFIRMED VISUALLY.																																											
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>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>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 (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	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
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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, 100CYCLES, FOR 3 DIRECTIONS.	① NO ELECTRICAL DISCONTINUITY OF 1 μs OF PARTS. ② NO DAMAGE, CRACK OR 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 OF PARTS. 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 60069)	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. AJIITO	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.		ELC4-314914-01																																							
HRS		SPECIFICATION SHEET		DF37B-*DP-0.4V (51)																																							
		HIROSE ELECTRIC CO., LTD.		CL684																																							
		PART NO.	CODE NO.	△ 1/1																																							