

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

APPLICABLE STANDARD		STORAGE TEMPERATURE RANGE																																								
OPERATING TEMPERATURE RANGE	-35°C TO 85°C (NOTES 1)	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																																							
CONSTRUCTION			AT																																							
GENERAL EXAMINATION	CONFIRMED VISUALLY AND BY MEASURING INSTRUMENT.	ACCORDING TO DRAWING.	X																																							
MARKING	CONFIRMED VISUALLY.		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		X																																							
		<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. 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. 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																																							
Δ 1	DIS-H-005746	KR. AJIITO	TS. MIYAZAKI																																							
REMARKS		APPROVED	MO. NAKAMURA																																							
NOTE 1: INCLUDE THE TEMPERATURE RISING BY CURRENT		CHECKED	KH. IKEDA																																							
		DESIGNED	KY. MIDORIKAWA																																							
		DRAWN	KY. MIDORIKAWA																																							
Note QT:Qualification Test AT:Assurance Test X:Applicable Test		DRAWING NO.	ELC4-314914-01																																							
<h1>HRS</h1>		PART NO.	DF37B-*DP-0.4V (51)																																							
		HIROSE ELECTRIC CO., LTD.	CL684																																							
		CODE NO.	CL684																																							
			Δ 1/1																																							