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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	① -25 °C TO +85 °C	STORAGE TEMPERATURE RANGE
	VOLTAGE	125 V AC	② -25 °C TO +60 °C
	CURRENT	0.5 A	OPERATING HUMIDITY RANGE
			85 %MAX
			APPLICABLE CABLE
			-

### SPECIFICATIONS

ITEM	TEST METHOD	REQUIREMENTS	QT	AT
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#### CONSTRUCTION

GENERAL EXAMINATION	VISUALLY AND BY MEASURING INSTRUMENT.	ACCORDING TO DRAWING.	X	X
MARKING	CONFIRMED VISUALLY.		X	X

#### ELECTRIC CHARACTERISTICS

CONTACT RESISTANCE	100 mA (DC OR 1000 Hz AC). ③ ④ ⑤	USING IDC TYPE : 50 mΩ MAX. (SIGNAL) USING SOLDER TYPE : 65 mΩ MAX. (SIGNAL)	X	—
INSULATION RESISTANCE	100 V DC.	1000 MΩ MIN.	X	—
VOLTAGE PROOF	250 V AC 1 min.	NO FLASHOVER OR BREAKDOWN.	X	X

#### MECHANICAL CHARACTERISTICS

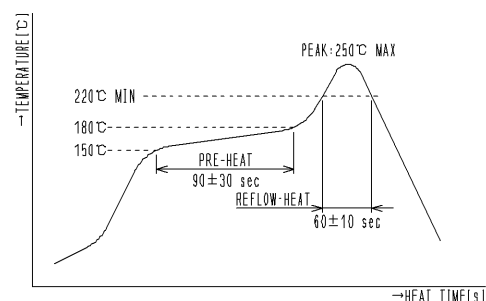
INSERTION AND WITHDRAWAL FORCES	MEASURED BY APPLICABLE CONNECTOR.	INSERTION FORCE : 36 N MAX. WITHDRAWAL FORCE : 3.3 N MIN.	X	—
MECHANICAL OPERATION	1000 TIMES INSERTIONS AND EXTRACTIONS. ③ ④ ⑤	1) CONTACT RESISTANCE USING IDC TYPE : 70 mΩ MAX. USING SOLDER TYPE : 85 mΩ MAX. 2) NO DAMAGE, CRACK AND LOOSENESS OF PARTS.	X	—
VIBRATION	FREQUENCY 10 TO 55 Hz, SINGLE AMPLITUDE 0.75 mm, 5 min/CYCLES, TOTAL 10 CYCLES.	1) NO ELECTRICAL DISCONTINUITY OF 10 μs. 2) NO DAMAGE, CRACK AND LOOSENESS OF PARTS.	X	—
SHOCK	490 m/s <sup>2</sup> DIRECTIONS OF PULSE 11 ms AT 3 TIMES FOR 3 DIRECTIONS.		X	—

#### ENVIRONMENTAL CHARACTERISTICS

DAMP HEAT	TEMPERATURE 40 °C, HUMIDITY 90 TO 95 %, FOR 96 h.	1) INSULATION RESISTANCE: 100 MΩ MIN. 2) NO DAMAGE, CRACK AND LOOSENESS OF PARTS.	X	—
RAPID CHANGE OF TEMPERATURE	TEMP -55 → +5 TO +35 → +85 → +5 TO +35 °C TIME 30 → 5 → 30 → 5 min. ③ ④ ⑤ UNDER 5 CYCLES.	1) CONTACT RESISTANCE USING IDC TYPE : 70 mΩ MAX. USING SOLDER TYPE : 85 mΩ MAX. 2) NO DAMAGE, CRACK AND LOOSENESS OF PARTS.	X	—
CORROSION SALT MIST	EXPOSED AT 5 % SALT WATER, FOR 48 h.	NO HEAVY CORROSION THAT LOSE FUNCTION.	X	—
SOLDERABILITY	① SOLDERED AT SOLDER TEMPERATURE, 245 ± 5 °C FOR IMMERSION, DURATION 3 ± 0.5 S.	MIN. 95 % OF SOLDER IMMERSED AREA SHALL BE COVERED NEW SOLDER COATING.	X	—
RESISTANCE TO SOLDERING HEAT	① A PROFILE IS SHOWN IN FIG-1, UNDR 2 CYCLES.	NO DEFORMATION OR SIGNIFICANT LOOSENESS OF CONTACTS.	X	—

- ① THE OPERATION TEMPERATURE INCLUDES THE RISE BY CURRENT CARRYING. ①
- ② STORAGE TEMPERATURE RANGE SHOWS STORAGE CONDITION FOR UNUSED PRODUCTS INCLUDING PACKING MATERIALS.  
FOLLOW THE OPERATING TEMPERATURE RANGE FOR STORAGE CONDITION AFTER MOUNTING.
- ③ EXCLUDES CONDUCTOR RESISTANCE OF CABLE.
- ④ EXAMINATION IS HELD WITH "DH-37-CT\*B", "DH3\*B-37S" AND "DH80A-37P".  
(PLUG : IDC TYPE)
- ⑤ EXAMINATION IS HELD WITH "DH-37-CT\*B", "DH40-37S" AND "DH80A-37P".  
(PLUG : SOLDER TYPE)

FIG-1 REFLOW TEMPERATURE PROFILE ①



COUNT	DESCRIPTION OF REVISIONS	DESIGNED	CHECKED	DATE
① 4	DIS-E-004287	MT. ITANO	EJ. WAKATSUKI	12.07.17
REMARK			APPROVED	AO. SUZUKI
			CHECKED	RI. TAKAYASU
			DESIGNED	MT. ITANO
			DRAWN	MT. ITANO

Unless otherwise specified, refer to JIS C 5402.

Note QT:Qualification Test AT:Assurance Test X:Applicable Test      DRAWING NO.      ELC4-127954-00

<b>HRS</b>	SPECIFICATION SHEET	PART NO.	DH80A-37P	
	HIROSE ELECTRIC CO., LTD.	CODE NO.	CL244-0068-5-00	① 1/1