

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

<b>APPLICABLE STANDARD</b>			
<b>RATING</b>	OPERATING TEMPERATURE RANGE	1 ▷ -25 °C T0 +85 °C	STORAGE TEMPERATURE RANGE
	VOLTAGE	125 V AC	OPERATING HUMIDITY RANGE
	CURRENT	0.5 A	APPLICABLE CABLE
		85 %MAX	-

**SPECIFICATIONS**

ITEM	TEST METHOD	REQUIREMENTS	QT	AT
<b>CONSTRUCTION</b>				
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

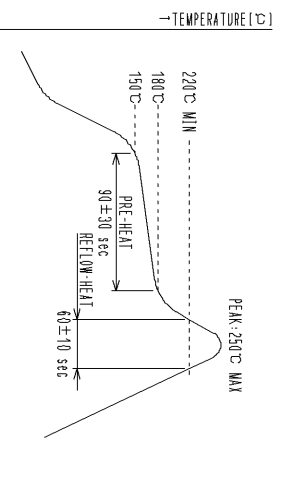
**MECHANICAL CHARACTERISTICS**

INSERTION AND WITHDRAWAL FORCES	MEASURED BY APPLICABLE CONNECTOR.	3 ▷ 4 ▷ 5 ▷	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 AMPITUDE 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 T0 +35 → +85 → +5 T0 +35 °C TIME 30 → 5 → 30 → 5 min. UNDER 5 CYCLES.	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	-
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	A PROFILE IS SHOWN IN FIG-1, UNDER 2 CYCLES.		NO DEFORMATION OR SIGNIFICANT LOOSENESS OF CONTACTS.	X	-

FIG-1 REFLOW TEMPERATURE PROFILE



- 1 ▷ THE OPERATION TEMPERATURE INCLUDES THE RISE BY CURRENT CARRYING.
- 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\*8-37S" AND "DH80A-37P".  
(PLUG : IDC TYPE)
- 5 ▷ EXAMINATION IS HELD WITH "DH-37-CT\*B", "DH40-37S" AND "DH80A-37P".  
(PLUG : SOLDER TYPE)

COUNT	DESCRIPTION OF REVISIONS	DESIGNED	CHECKED	DATE
4	DIS-E-004287	MT. ITANO	EJ. WAKATSUKI	12.07.17
<b>REMARK</b>		APPROVED	AO. SUZUKI	12.03.12
		CHECKED	R.I. TAKAYASU	12.03.12
		DESIGNED	MT. ITANO	12.03.12
		DRAWN	MT. ITANO	12.03.12

Unless otherwise specified, refer to JIS C 5402.

Note QT:Qualification Test AT:Assurance Test X:Applicable Test DRAWING NO. ELG4-127954-00

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