

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	-55 °C TO 85 °C ⁽¹⁾	STORAGE TEMPERATURE RANGE	-10 °C TO 60 °C ⁽²⁾
	VOLTAGE	200 V AC	OPERATING HUMIDITY RANGE	40 % TO 80 %.
	CURRENT	1 A	STORAGE HUMIDITY RANGE	40 % TO 70 % ⁽²⁾

SPECIFICATIONS

ITEM

TEST METHOD

REQUIREMENTS

QT AT

CONSTRUCTION

GENERAL EXAMINATION VISUALLY AND BY MEASURING INSTRUMENT.

ACCORDING TO DRAWING.

MARKING

CONFIRMED VISUALLY.

x x

ELECTRIC CHARACTERISTICS

CONTACT RESISTANCE 100 mA (DC OR 1000 Hz).

15 mΩ MAX.

x —

INSULATION RESISTANCE

500 V DC

1000 MΩ MIN.

x —

VOLTAGE PROOF

650 V AC FOR 1 min.

NO FLASHOVER OR BREAKDOWN.

x —

MECHANICAL CHARACTERISTICS

CONTACT INSERTION AND EXTRACTION FORCES

INSERTION FORCE: 2.45 N MAX.
EXTRACTION FORCE: 0.25 N MIN.

x —

MECHANICAL OPERATION

100 TIMES INSERTIONS AND EXTRACTIONS.

① CONTACT RESISTANCE: 20 mΩ MAX.
② NO DAMAGE, CRACK AND LOOSENESS OF PARTS.

x —

VIBRATION

FREQUENCY 10 TO 55 Hz.
AMPLITUDE : 1.5 mm.
AT 2 h FOR 3 DIRECTIONS.

① NO ELECTRICAL DISCONTINUITY OF 1 μs.
② NO DAMAGE, CRACK AND LOOSENESS OF PARTS.

x —

SHOCK

490 m/s², DURATION OF PULSE 11 ms
AT 3 TIMES FOR 3 DIRECTIONS.

① CONTACT RESISTANCE: 20 mΩ MAX.
② INSULATION RESISTANCE: 1000 MΩ MIN.
③ NO DAMAGE, CRACK AND LOOSENESS OF PARTS.

x —

ENVIRONMENTAL CHARACTERISTICS

DAMP HEAT (STEADY STATE)

EXPOSED AT 40±2 °C, 90 ~ 95 %, 96 h.

① CONTACT RESISTANCE: 20 mΩ MAX.
② INSULATION RESISTANCE: 1000 MΩ MIN.

x —

RAPID CHANGE OF TEMPERATURE

TEMPERATURE: 65 → +15 ~ +35 → +125 → +15 ~ +35 °C
TIME 30 → 10 ~ 15 → 30 → 10 ~ 15 min.
UNDER 5 CYCLES.

③ NO DAMAGE, CRACK AND LOOSENESS OF PARTS.

x —

CORROSION SALT MIST

EXPOSED IN 5 % SALT WATER SPRAY FOR 48 h.

① CONTACT RESISTANCE: 20 mΩ MAX.
② NO HEAVY CORROSION.

x —

SULPHUR DIOXIDE

EXPOSED IN 10 PPM FOR 96 h.
(TEST STANDARD: JEIDA - 39)

NO DEFORMATION OF CASE OF EXCESSIVE LOOSENESS OF THE TERMINALS.

x —

RESISTANCE TO SOLDERING HEAT

1) SOLDER BATH: SOLDER TEMPERATURE: 260 ± 5 °C FOR IMMERSION DURATION, 10 ± 1 s.
2) SOLDERING IRONS : 350 °C FOR 3 s MAX.

A NEW UNIFORM COATING OF SOLDER SHALL COVER A MINIMUM OF 95 % OF THE SURFACE BEING IMMersed.

x —

SOLDERABILITY

SOLDERED AT SOLDER TEMPERATURE, 245 ± 3 °C,
FOR IMMERSION DURATION, 2 s.

NO DEFORMATION OF CASE OF EXCESSIVE LOOSENESS OF THE TERMINALS.

x —

COUNT	DESCRIPTION OF REVISIONS	DESIGNED	CHECKED	DATE
0				

REMARK ① TEMPERATURE RISE INCLUDED WHEN ENERGIZED.
② THIS STORAGE INDICATES A LONG-TERM STORAGE STATE FOR THE UNUSED PRODUCT BEFORE THE BOARD MOUNTED.

Unless otherwise specified, refer to MIL-STD-1344.

Note QT: Qualification Test AT: Assurance Test X: Applicable Test

DRAWING NO.

ELC4-151140-21

HRS

SPECIFICATION SHEET

PART NO.

A3D-62DA-2DSE (71)

HIROSE ELECTRIC CO., LTD.

CODE NO.

CL621-0767-3-71

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