# Wirewound Rheostat / Potentiometer

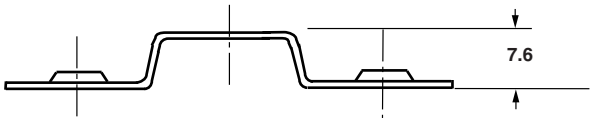
## FEATURES

- 55 W at 25 °C
- CCTU 05-03B (PA3)
- Material categorization: for definitions of compliance please see www.vishay.com/doc?99912

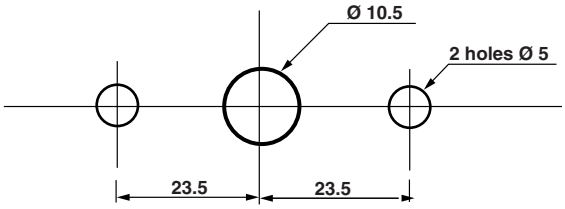
RoHS COMPLIANT

## DIMENSIONS in millimeters

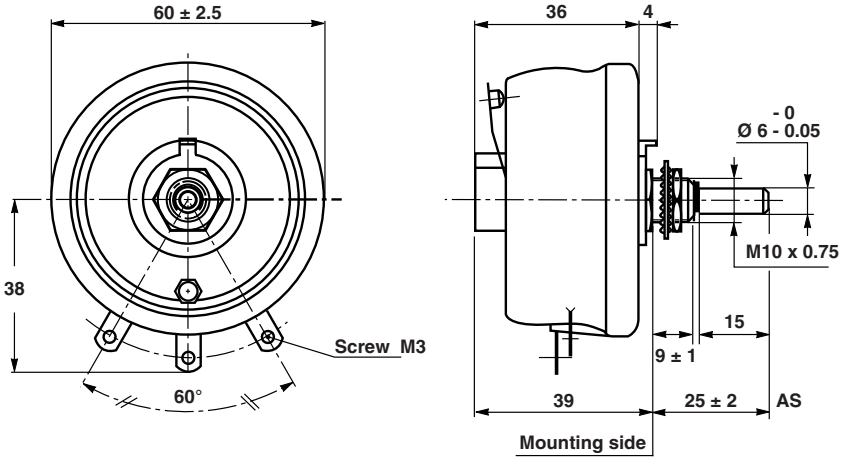
ADAPTATION BOARD



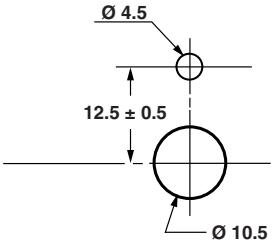

PANEL CUT OUT DETAILS




RT55-PA3




PANEL CUT OUT DETAILS




## STANDARD ELECTRICAL SPECIFICATIONS

| MODEL | RESISTANCE RANGE Ω | TOLERANCE ± % | RATED POWER $P_{25\,°C}$ W | VARIATION LAW STANDARD (1) | LIMITING ELEMENT VOLTAGE V | DIELECTRIC STRENGTH $V_{RMS}$ | INSULATION RESISTANCE Ω |
|---|---|---|---|---|---|---|---|
| RT55 | 1 to 10K | 10 | 55 | Linear | 500 (linear law) | 1000 | $10^3$M (500 $V_{CC}$) |

**Note**

(1) On request: sectorial winding

## CLIMATIC SPECIFICATIONS

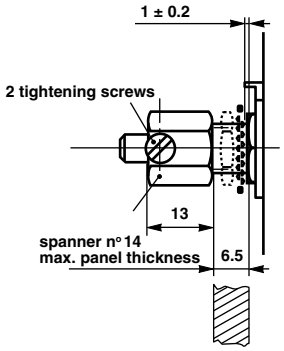
| | |
|---|---|
| Temperature range | -55 °C; +320 °C |
| Climatic category | CCTU 454<br>CEI 55 / 200 / 56 |

## MECHANICAL SPECIFICATIONS

| | |
|---|---|
| Mechanical protection | Vitreous |
| Mechanical travel | 300° ± 5° |
| Operating torque | 2 Ncm to 15 Ncm |
| End stop torque | 100 Ncm |
| Unit weight | 175 g |

## LOCKING DEVICE

This is supplied as an option. The available spindle length is according to the panel thickness.
Order reference: DBA6




## ADAPTATION BOARD

This enables 2 point mounting instead of bush mounting. The adaptation board is supplied as an option with 2 mounting screws.

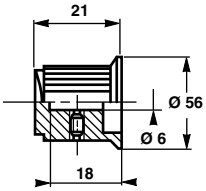
| SPINDLES | | | |
|---|---|---|---|
| Ø mm | DISTANCE TO MOUNTING PLATE mm | SCREW DRIVER SLOT | CODE |
| 6 | 22 | Without | AD |
| | | With | ADF |
| | 25 | Without | AS |
| | | With | ASF |
| | 50 | Without | AL |

**Note**

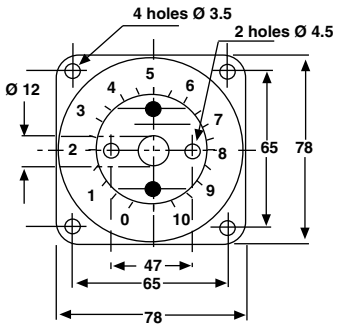
- For any special requirement on request: spindle flats, etc. Please supply detailed drawing.

| PARTICULAR CHARACTERISTICS | | |
|---|---|---|
| NOMINAL RESISTANCE Ω | MAX. SERVICE VOLTAGE V | MAX. CURRENT THROUGH WIPER A |
| 1 | 7.41 | 7.41 |
| 1.5 | 9.08 | 6.05 |
| 2.2 | 11 | 5 |
| 3.3 | 4.7 | 6.8 |
| 4.7 | 16.1 | 3.42 |
| 6.8 | 19.3 | 2.84 |
| 10 | 23.5 | 2.35 |
| 15 | 28.7 | 1.91 |
| 22 | 34.8 | 1.58 |
| 33 | 42.6 | 1.29 |
| 47 | 50.8 | 1.08 |
| 68 | 61.2 | 0.9 |
| 100 | 74.1 | 0.74 |
| 150 | 90.8 | 0.6 |
| 220 | 110 | 0.5 |
| 330 | 135 | 0.4 |
| 470 | 161 | 0.34 |
| 680 | 193 | 0.28 |
| 1K | 235 | 0.23 |
| 1.5K | 287 | 0.19 |
| 2.2K | 348 | 0.16 |
| 3.3K | 426 | 0.13 |
| 4.7K | 500 | 0.11 |
| 5.6K | 500 | 0.09 |
| 10K | 500 | 0.05 |

**COMMAND KNOB 41JF (OPTION)**




**DIAL CG78 (OPTION)**




## MARKING

Vishay Sfernice trademark, series, style, ohmic value (in Ω or kΩ), tolerance (in %), maximum current in A, manufacturing date.

## ORDERING INFORMATION

| RT | 055 | AS | 4701 | K | B | XXX |
|---|---|---|---|---|---|---|
| MODEL | STYLE | SPINDLE | OHMIC VALUE | TOLERANCE | PACKAGING | SPECIAL DESIGN |

## GLOBAL PART NUMBER INFORMATION

| R | T | 0 | 5 | 5 | A | S | 2 | 2 | R | 0 | K | B |
|---|---|---|---|---|---|---|---|---|---|---|---|---|

| GLOBAL MODEL | SIZE | LOCKING DEVICE (OPT.) | WINDING (OPT.) | COMMAND SHAFT | OHMIC VALUE | TOLERANCE | PACKAGING | SPECIAL |
|---|---|---|---|---|---|---|---|---|
| **RT** | **055** | **D** | **BXXX** or **BXXXX**<br><br>As applicable xxx(x) = internal number | **AS** = standard (Diam: 6 mm)<br>**AL**<br>**ASF**<br>**AD**<br>**ADF** | The three first digits are significant figures and the last digit specifies the number of zeros to follow. R designates decimal point.<br><br>**2002** = 20 kΩ<br>**4700** = 470 Ω<br>**22R0** = 22 Ω<br>**0R01** = 0.01 Ω | **J** = 5 %<br>**K** = 10 % | **B** = bulk<br>BO1 | As applicable<br>**Ex** = DXxx |

## RELATED DOCUMENTS

| APPLICATION NOTES | |
|---|---|
| Potentiometers and Trimmers | www.vishay.com/doc?51001 |
| Guidelines for Vishay Sfernice Resistive and Inductive Components | www.vishay.com/doc?52029 |

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