

## Wirewound Rheostat / Potentiometer

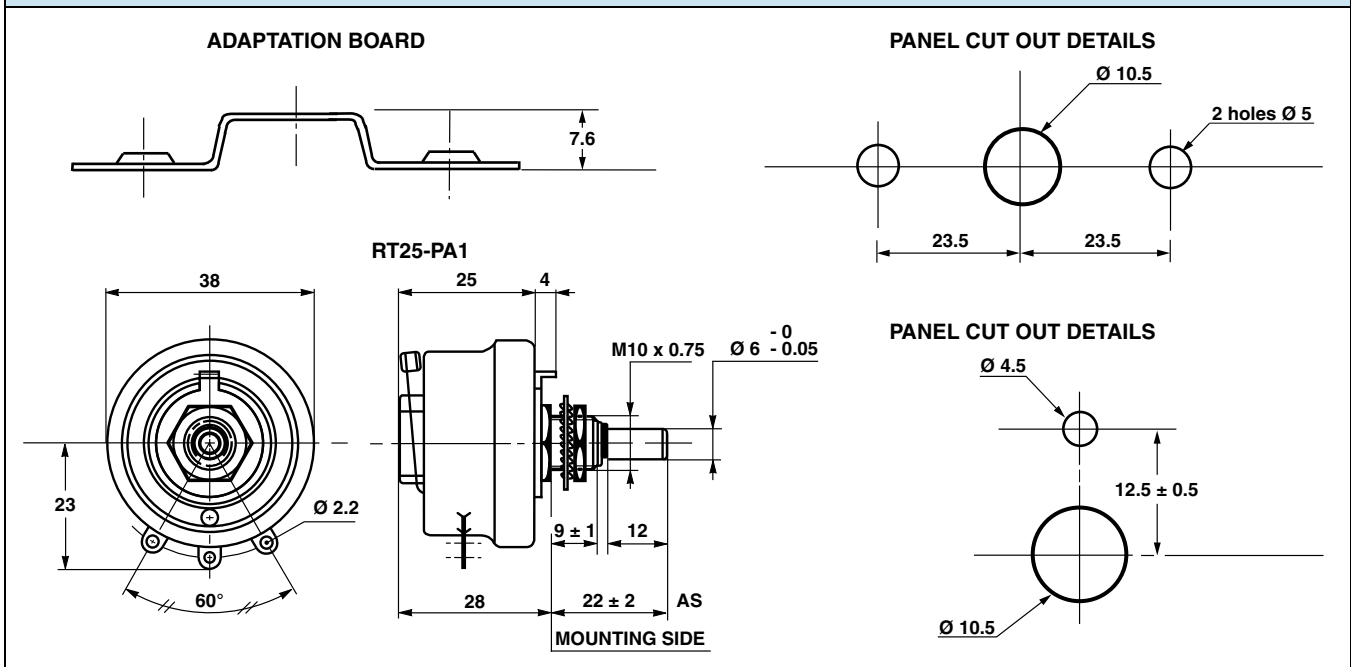


### FEATURES

- 25 W at 25 °C
- CCTU 05-03B (PA1)
- Vitreous - RT style
- Material categorization: for definitions of compliance please see [www.vishay.com/doc?99912](http://www.vishay.com/doc?99912)


**RoHS**  
COMPLIANT

### DIMENSIONS in millimeters



### STANDARD ELECTRICAL SPECIFICATIONS

| MODEL | RESISTANCE RANGE<br>$\Omega$ | TOLERANCE<br>$\pm \%$ | RATED POWER<br>$P_{25\text{ }^\circ\text{C}}$<br>W | VARIATION LAW<br>STANDARD <sup>(1)</sup> | LIMITING<br>ELEMENT VOLTAGE<br>V | DIELECTRIC<br>STRENGTH<br>$V_{\text{RMS}}$ | INSULATION<br>RESISTANCE<br>$\Omega$  |
|-------|------------------------------|-----------------------|--|--|----------------------------------|--|---------------------------------------|
| RT25  | 1 to 4.7K                    | 10                    | 25   | Linear                                   | 300                              | 1000                                       | $10^9\text{M}$ (500 $V_{\text{CC}}$ ) |

**Note**
<sup>(1)</sup> On request: sectorial winding

### CLIMATIC SPECIFICATIONS

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

### MECHANICAL SPECIFICATIONS

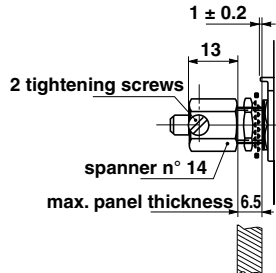
|                       |                         |
|-----------------------|-------------------------|
| Mechanical protection | Vitreous                |
| Mechanical travel     | $300^\circ \pm 5^\circ$ |
| Operating torque      | 1 Ncm to 10 Ncm         |
| End stop torque       | 50 Ncm                  |
| Unit weight           | 80 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. Consequently, the available spindle length is reduced by 9.5 mm.

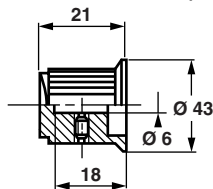
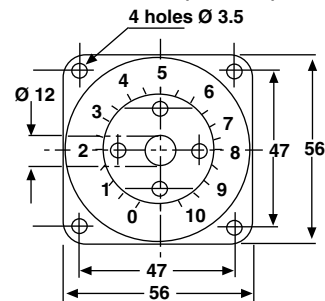
| SPINDLES |                               |                   |      |
|----------|-------------------------------|-------------------|------|
| Ø mm     | DISTANCE TO MOUNTING PLATE mm | SCREW DRIVER SLOT | CODE |
| 6        | 22                            | With              | ASF  |
|          |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

**Note**

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

**PARTICULAR CHARACTERISTICS**

| NOMINAL RESISTANCE<br>Ω | MAX. SERVICE VOLTAGE<br>V | MAX. CURRENT THROUGH WIPER<br>mA |
|-------------------------|---------------------------|----------------------------------|
| 1                       | 5                         | 5000                             |
| 1.5                     | 6.12                      | 4080                             |
| 2.2                     | 7.42                      | 3370                             |
| 3.3                     | 9.08                      | 2750                             |
| 4.7                     | 10.8                      | 2300                             |
| 6.8                     | 13                        | 1920                             |
| 10                      | 15.8                      | 1580                             |
| 15                      | 19.4                      | 1290                             |
| 22                      | 23.5                      | 1070                             |
| 33                      | 28.7                      | 870                              |
| 47                      | 34.3                      | 730                              |
| 68                      | 41.2                      | 605                              |
| 100                     | 50                        | 500                              |
| 150                     | 61.2                      | 408                              |
| 220                     | 74.2                      | 337                              |
| 330                     | 90.8                      | 275                              |
| 470                     | 108                       | 230                              |
| 680                     | 130                       | 192                              |
| 1K                      | 158                       | 158                              |
| 1.5K                    | 194                       | 129                              |
| 2.2K                    | 235                       | 107                              |
| 3.3K                    | 287                       | 87                               |
| 4.7K                    | 343                       | 73                               |

**COMMAND SHAFT 29JF (OPTION)**

**DIAL CG57 (OPTION)**

**MARKING**

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



| ORDERING INFORMATION |       |         |             |           |           |                |
|----------------------|-------|---------|-------------|-----------|-----------|----------------|
| RT                   | 025   | ASF     | 2201        | K         | B         | XXX            |
| MODEL                | STYLE | SPINDLE | OHMIC VALUE | TOLERANCE | PACKAGING | SPECIAL DESIGN |

| GLOBAL PART NUMBER INFORMATION  |      |                       |   |  |  |                     |   |                            |   |   |   |   |   |   |   |   |   |   |   |   |   |
|---|------|-----------------------|---|--|--|---------------------|---|----------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|
| <table border="1" style="margin: auto;"> <tr> <td>R</td><td>T</td><td>0</td><td>2</td><td>5</td><td>A</td><td>S</td><td>1</td><td>0</td><td>R</td><td>0</td><td>K</td><td>B</td> </tr> </table> |      |                       |   |  |  |                     |   |                            | R | T | 0 | 2 | 5 | A | S | 1 | 0 | R | 0 | K | B |
| R   | T    | 0                     | 2   | 5  | A  | S                   | 1   | 0                          | R | 0 | K | B |   |   |   |   |   |   |   |   |   |
| GLOBAL MODEL  | SIZE | LOCKING DEVICE (OPT.) | WINDING (OPT.)  | COMMAND SHAFT  | OHMIC VALUE  | TOLERANCE           | PACKAGING   | SPECIAL                    |   |   |   |   |   |   |   |   |   |   |   |   |   |
| RT  | 025  | D                     | BXXX or BXXXX<br>As applicable xxx(x) = internal number | AS = standard (Diam: 6 mm)<br>AM<br>AMF<br>AL<br>ASF | 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>10R0 = 10 Ω<br>0R01 = 0.01 Ω | J = 5 %<br>K = 10 % | B = bulk<br>BO10<br><br>No standard packaging:<br>N = bulk, qty. open | As applicable<br>Ex = DXxx |   |   |   |   |   |   |   |   |   |   |   |   |   |

| RELATED DOCUMENTS   |  |
|---|--|
| APPLICATION NOTES   |  |
| Potentiometers and Trimmers                                       | <a href="http://www.vishay.com/doc?51001">www.vishay.com/doc?51001</a> |
| Guidelines for Vishay Sfernice Resistive and Inductive Components | <a href="http://www.vishay.com/doc?52029">www.vishay.com/doc?52029</a> |



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