

## 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



### MECHANICAL SPECIFICATIONS

**Mechanical Protection:** Vitreous  
**Mechanical Travel:** 300° ± 5°  
**Operating Torque:** 1 Ncm to 10 Ncm  
**End Stop Torque:** 50 Ncm  
**Unit Weight:** 80 g

### ENVIRONMENTAL SPECIFICATIONS

**Temperature Range:** - 55 °C + 320 °C  
**Climatic Category:** CCTU 454, CEI 55/200/56

### ELECTRICAL SPECIFICATIONS

|                              |  |                 |        |                   |                   |
|------------------------------|--|-----------------|--------|-------------------|-------------------|
| <b>Ohmic Range</b>           | 1 Ω to 4.7 kΩ  |                 |        |                   |                   |
| <b>Tolerance Standard</b>    | ± 10 %   |                 |        |                   |                   |
| <b>Power Rating</b>          | 25 W at 25 °C  |                 |        |                   |                   |
| <b>Variation Law</b>         | <table border="0"> <tr> <td><b>Standard</b></td> <td>Linear</td> </tr> <tr> <td><b>On request</b></td> <td>Sectorial winding</td> </tr> </table> | <b>Standard</b> | Linear | <b>On request</b> | Sectorial winding |
| <b>Standard</b>              | Linear   |                 |        |                   |                   |
| <b>On request</b>            | Sectorial winding  |                 |        |                   |                   |
| <b>Dielectric Strength</b>   | 1000 V <sub>RMS</sub>  |                 |        |                   |                   |
| <b>Insulation Resistance</b> | 10 <sup>3</sup> MΩ (500 V <sub>CC</sub> )  |                 |        |                   |                   |

### 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.

| PARTICULAR CHARACTERISTICS     |                           |                                  |
|--------------------------------|---------------------------|----------------------------------|
| NOMINAL RESISTANCE<br>$\Omega$ | 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                               |

| SPINDLES         |                               |                   |      |
|------------------|-------------------------------|-------------------|------|
| $\varnothing$ 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.

**COMMAND SHAFT 29JF (OPTION)**



**DIAL CG57 (OPTION)**



**MARKING**

Vishay Sfernice trademark, series, style, power rating in watts, ohmic value (in  $\Omega$  or  $k\Omega$ ), 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   |      |                       |  |  |   |                     |   |                            |
|--|------|-----------------------|--|--|---|---------------------|---|----------------------------|
| <div style="display: flex; justify-content: space-around; font-weight: bold; font-size: 1.2em;"> <span>R</span><span>T</span><span>0</span><span>2</span><span>5</span><span>A</span><span>S</span><span>1</span><span>0</span><span>R</span><span>0</span><span>K</span><span>B</span> </div> |      |                       |  |  |   |                     |   |                            |
| GLOBAL MODEL   | SIZE | LOCKING DEVICE (OPT.) | WINDING (OPT.)   | COMMAND SHAFT  | OHMIC VALUE   | TOLERANCE           | PACKAGING   | SPECIAL                    |
| RT   | 025  | D                     | BXXX or BXXXX<br>As applicable<br>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 k $\Omega$<br>4700 = 470 $\Omega$<br>10R0 = 10 $\Omega$<br>0R01 = 0.01 $\Omega$ | J = 5 %<br>K = 10 % | B = Bulk<br>BO10<br><br>No standard packaging:<br>N = Bulk, qty. open | As applicable<br>Ex = DXxx |



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