

## Wirewound Rheostat / Potentiometer

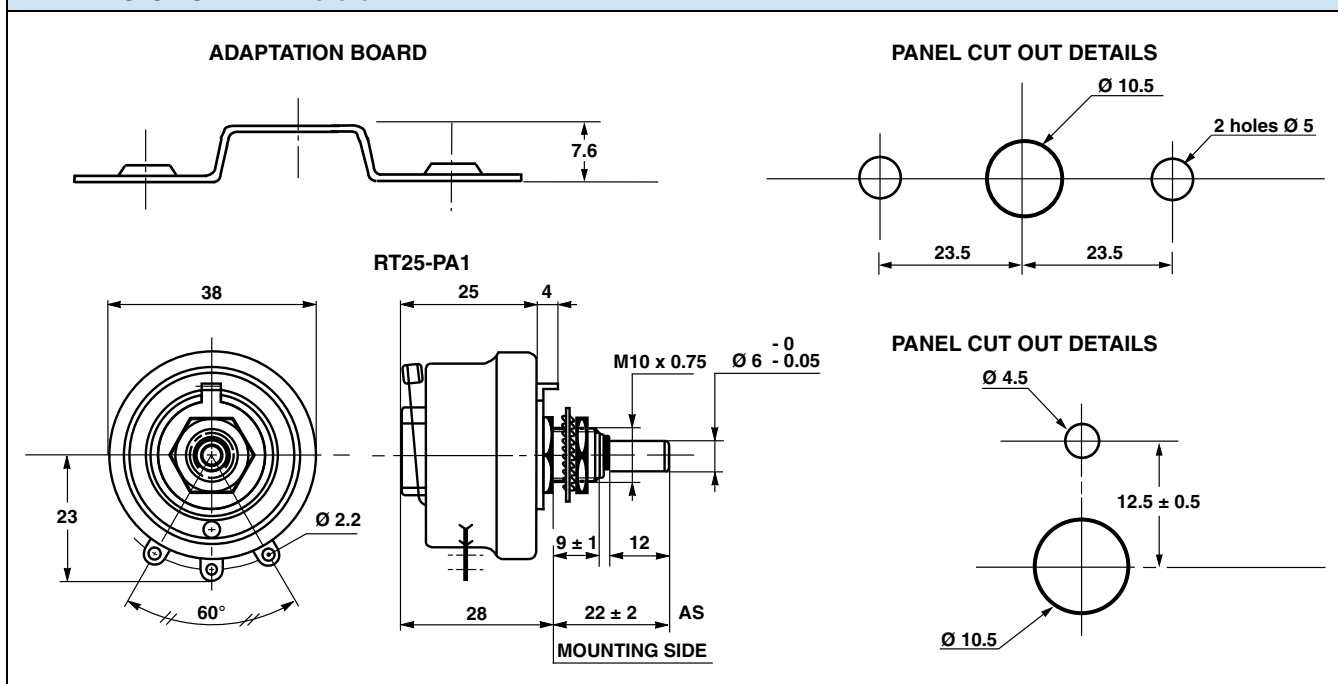


### FEATURES

- 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                                       | $10^3\text{M}$ (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

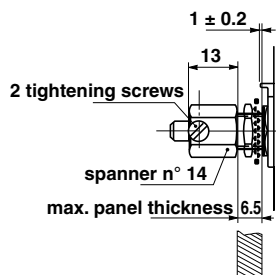
|                       |                             |
|-----------------------|-----------------------------|
| Mechanical protection | Vitreous                    |
| Mechanical travel     | $300^{\circ} \pm 5^{\circ}$ |
| Operating torque      | 1 Ncm to 10 Ncm             |
| End stop torque       | 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  |
|          | 50                            | Without           | AL   |
| 6        | 22                            | Without           | AS   |

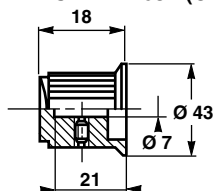
### Note

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

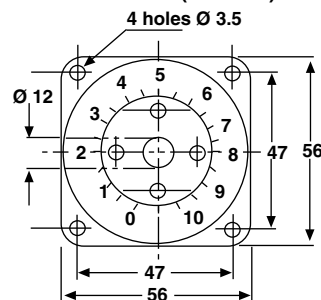
## PARTICULAR CHARACTERISTICS

| 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

|           |            |            |             |           |           |                |
|-----------|------------|------------|-------------|-----------|-----------|----------------|
| <b>RT</b> | <b>025</b> | <b>ASF</b> | <b>2201</b> | <b>K</b>  | <b>B</b>  | <b>XXX</b>     |
| MODEL     | STYLE      | SPINDLE    | OHMIC VALUE | TOLERANCE | PACKAGING | SPECIAL DESIGN |

### GLOBAL PART NUMBER INFORMATION

|              |            |                       |                                                                                          |                                                                                            |                                                                                                                                                                                                                                                                                 |          |          |                                   |                                                                                           |                                   |          |          |
|--------------|------------|-----------------------|------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|----------|-----------------------------------|-------------------------------------------------------------------------------------------|-----------------------------------|----------|----------|
| <b>R</b>     | <b>T</b>   | <b>0</b>              | <b>2</b>                                                                                 | <b>5</b>                                                                                   | <b>A</b>                                                                                                                                                                                                                                                                        | <b>S</b> | <b>1</b> | <b>0</b>                          | <b>R</b>                                                                                  | <b>0</b>                          | <b>K</b> | <b>B</b> |
| GLOBAL MODEL | SIZE       | LOCKING DEVICE (OPT.) | WINDING (OPT.)                                                                           | COMMAND SHAFT                                                                              | OHMIC VALUE                                                                                                                                                                                                                                                                     |          |          | TOLERANCE                         | PACKAGING                                                                                 | SPECIAL                           |          |          |
| <b>RT</b>    | <b>025</b> | <b>D</b>              | <b>BXXX</b><br>or<br><b>BXXXX</b><br><br>As applicable<br>xxx(x) =<br>internal<br>number | <b>AS</b> = standard<br>(Diam: 6 mm)<br><b>AM</b><br><b>AMF</b><br><b>AL</b><br><b>ASF</b> | The three first digits are<br>significant figures and the<br>last digit specifies the<br>number of zeros to follow.<br>R designates decimal point.<br><br><b>2002</b> = 20 k $\Omega$<br><b>4700</b> = 470 $\Omega$<br><b>10R0</b> = 10 $\Omega$<br><b>0R01</b> = 0.01 $\Omega$ |          |          | <b>J</b> = 5 %<br><b>K</b> = 10 % | <b>B</b> = bulk<br>BO10<br><br>No standard<br>packaging:<br><b>N</b> = bulk,<br>qty. open | As applicable<br><b>Ex</b> = 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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