

## Wirewound Rheostat / Potentiometer

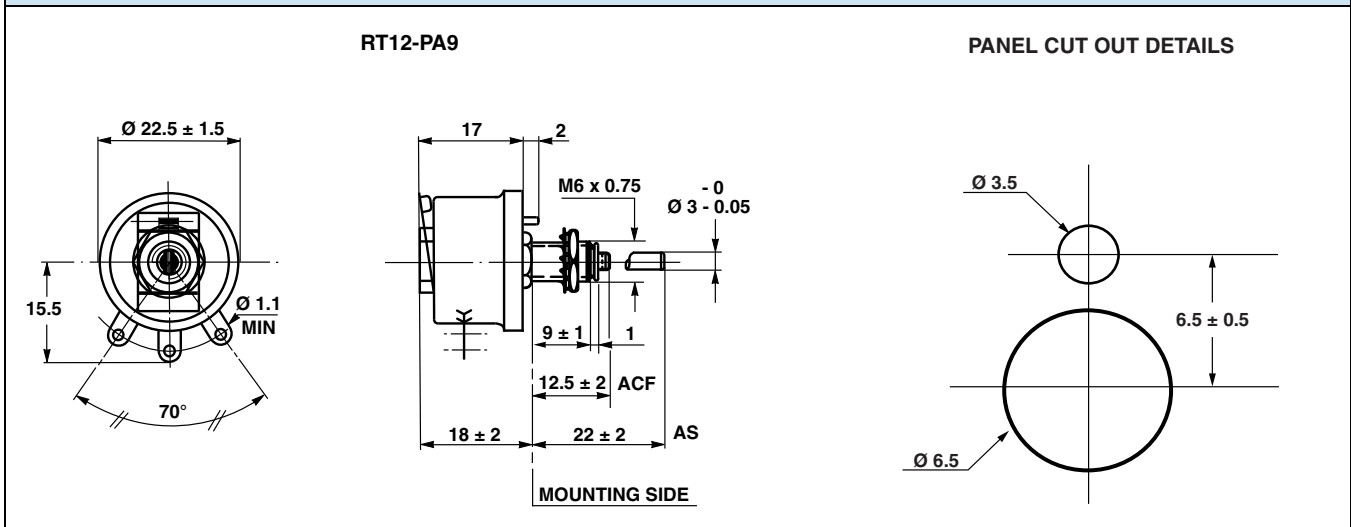


### FEATURES

- 12 W at 25 °C
- CCTU 05-03B (PA9)
- Vitreous 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 | LIMITING<br>ELEMENT VOLTAGE<br>V | DIELECTRIC<br>STRENGTH<br>$V_{\text{RMS}}$ | INSULATION<br>RESISTANCE<br>$\Omega$  |
|-------|------------------------------|-----------------------|--|---------------------------|----------------------------------|--|---------------------------------------|
| RT12  | 1 to 2.2K                    | 10                    | 12   | Linear                    | 300                              | 1000                                       | $10^9\text{M}$ (500 $V_{\text{CC}}$ ) |

### CLIMATIC SPECIFICATIONS

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

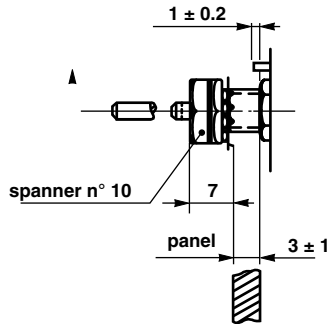
### MECHANICAL SPECIFICATIONS

|                       |                                     |
|-----------------------|-------------------------------------|
| Mechanical protection | Vitreous                            |
| Mechanical travel     | $290^\circ + 15^\circ / - 10^\circ$ |
| Operating torque      | 1 Ncm to 10 Ncm                     |
| End stop torque       | 25 Ncm                              |
| Unit weight           | 18.3 g                              |

**LOCKING DEVICE**

The spindle locking device can be fitted only to special units equipped with a slotted bushing.

Order reference: B



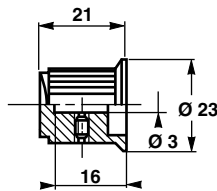
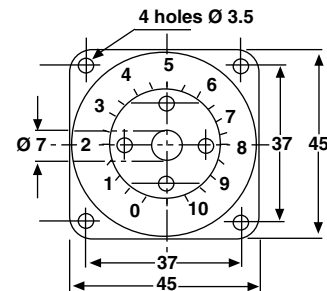
| SPINDLES |                               |                   |      |
|----------|-------------------------------|-------------------|------|
| Ø mm     | DISTANCE TO MOUNTING PLATE MM | SCREW DRIVER SLOT | CODE |
| 3        | 12.5                          | With              | ACF  |
| 3        | 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                       | 3.46                      | 3460                             |
| 1.5                     | 4.24                      | 2830                             |
| 2.2                     | 5.14                      | 2340                             |
| 3.3                     | 6.29                      | 1910                             |
| 4.7                     | 7.51                      | 1600                             |
| 6.8                     | 9.03                      | 1330                             |
| 10                      | 11                        | 1100                             |
| 15                      | 13.4                      | 900                              |
| 22                      | 16.3                      | 740                              |
| 33                      | 19.9                      | 603                              |
| 47                      | 23.7                      | 505                              |
| 68                      | 28.6                      | 420                              |
| 100                     | 34.6                      | 346                              |
| 150                     | 42.4                      | 283                              |
| 220                     | 51.4                      | 234                              |
| 330                     | 62.9                      | 191                              |
| 470                     | 75.1                      | 160                              |
| 680                     | 90.3                      | 133                              |
| 1K                      | 110                       | 110                              |
| 1.5K                    | 134                       | 90                               |
| 2.2K                    | 163                       | 74                               |

**COMMAND KNOB: 20JF (OPTION)**

**DIAL: CG45 (OPTION)**

**MARKING**

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



| ORDERING INFORMATION |            |           |             |           |           |                |
|----------------------|------------|-----------|-------------|-----------|-----------|----------------|
| <b>RT</b>            | <b>012</b> | <b>AS</b> | <b>1501</b> | <b>K</b>  | <b>B</b>  | <b>XXX</b>     |
| MODEL                | STYLE      | SPINDLE   | OHMIC VALUE | TOLERANCE | PACKAGING | SPECIAL DESIGN |

| GLOBAL PART NUMBER INFORMATION  |      |                       |   |                                   |   |   |   |                     |   |                            |   |   |   |   |   |   |   |   |   |   |   |
|---|------|-----------------------|---|-----------------------------------|---|---|---|---------------------|---|----------------------------|---|---|---|---|---|---|---|---|---|---|---|
| <table border="1" style="margin: auto;"> <tr> <td style="padding: 5px;">R</td> <td style="padding: 5px;">T</td> <td style="padding: 5px;">0</td> <td style="padding: 5px;">1</td> <td style="padding: 5px;">2</td> <td style="padding: 5px;">A</td> <td style="padding: 5px;">S</td> <td style="padding: 5px;">4</td> <td style="padding: 5px;">7</td> <td style="padding: 5px;">0</td> <td style="padding: 5px;">1</td> <td style="padding: 5px;">K</td> <td style="padding: 5px;">B</td> </tr> </table> |      |                       |   |                                   |   |   |   |                     | R   | T                          | 0 | 1 | 2 | A | S | 4 | 7 | 0 | 1 | K | B |
| R   | T    | 0                     | 1   | 2                                 | A   | S | 4 | 7                   | 0   | 1                          | K | B |   |   |   |   |   |   |   |   |   |
| GLOBAL MODEL  | SIZE | LOCKING DEVICE (OPT.) | WINDING (OPT.)  | COMMAND SHAFT                     | OHMIC VALUE   |   |   | TOLERANCE           | PACKAGING   | SPECIAL                    |   |   |   |   |   |   |   |   |   |   |   |
| RT  | 012  | D                     | BXXX or BXXXX<br>As applicable xxx(x) = internal number | AS = standard (diam: 3 mm)<br>ACF | The three first digits are significant figures and the last digit specifies the number of zeros to follow. R designates decimal point.<br>2002 = 20 kΩ<br>4701 = 4.7 kΩ<br>48R0 = 48 Ω<br>0R01 = 0.01 Ω |   |   | J = 5 %<br>K = 10 % | B = bulk<br>BO10<br>No standard packaging:<br>N = bulk, qty. open | As applicable<br>Ex = DXxx |   |   |   |   |   |   |   |   |   |   |   |

| RELATED DOCUMENTS   |  |
|---|--|
| <b>APPLICATION NOTES</b>  |  |
| 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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