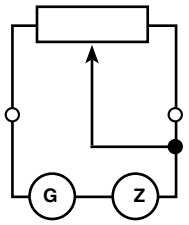
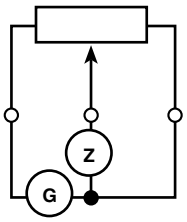
# Wirewound Rheostats and Potentiometers Characteristics

**RHEOSTAT MODE**




**POTENTIOMETER MODE**





## FEATURES

- 12 W to 500 W at 25 °C
- CCTU 05-03B

The performance of RT-RTE rheostats exceeds the requirements of specification CCTU 05-03B.
They have been designed for heavy duty applications such as repeated overloads, transients, shock and vibration conditions.

## RT VITREOUS SERIES

Six sizes are available capable of dissipating 12, 25, 55, 100, 250 or 500 watts at 25 °C.
The resistive wire is protected by a proprietary Vishay Sfernice enamel fired at high temperature and free from any compound that could cause corrosion of the wire.
The maximum operating temperature of the RT series is 320 °C.

## GANGED UNITS

Ganged units are available with different combinations of power and ohmic values (see data-sheet).

## GRADED WINDINGS

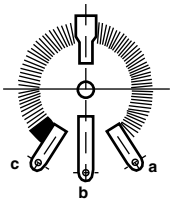
These are recommended when the ratio is $\frac{Imax}{Imin} > 2$

## MAXIMUM OVERLOAD

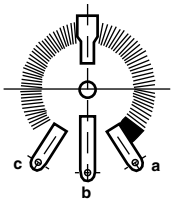
In rheostat use, the winding current decreases in relation to the number of turns being used.
When part of the winding is used the current can be increased in accordance with the graph on the left.
Substantially heavier overloads can be applied in short impulses and we would be pleased to advise on this type of application, on receipt of the following information:
- proposed rheostat usage
- current level
- operating cycles specifying duration of overload “ON”, ”OFF” periods.

## SPECIAL FEATURES

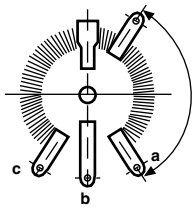
OFF POSITION LEFT
Code No.: 213700



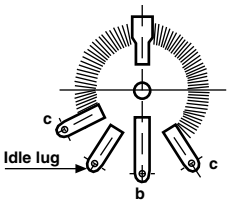

OFF POSITION RIGHT
Code No.: 213600



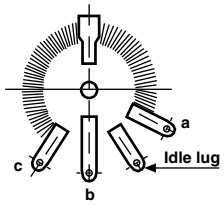

FIXED TAPPINGS, ONE OR MORE
Code No.: RTP
Not available for RT12 and RT500



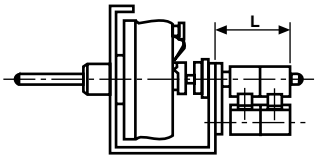

IDLE LUG LEFT
Code No.: DB1
Not available for RT12 and RT500



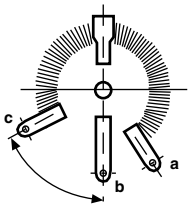

IDLE LUG RIGHT
Code No.: DB2
Not available for RT12 and RT500



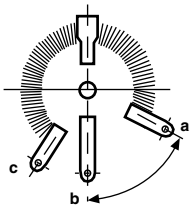

DOUBLE MINI SWITCH
Not available for RT12




REDUCED LEFT TRAVEL
Not available for RT12 and RT500



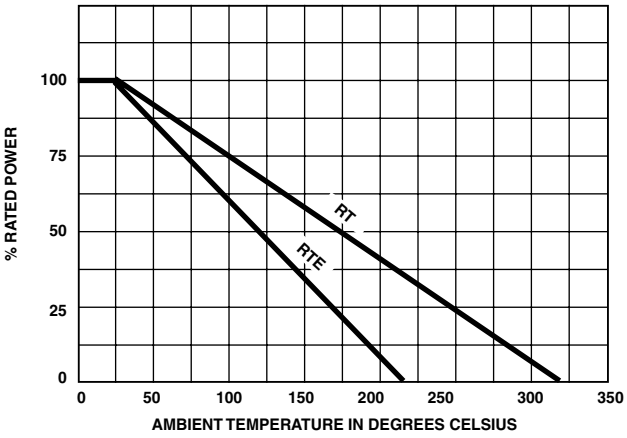

REDUCED RIGHT TRAVEL
Not available for RT12 and RT500



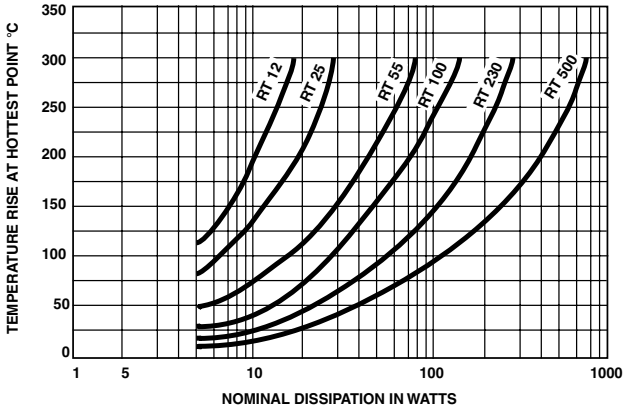

Other special features are available.
Please consult Vishay Sfernice for all of your rheostat requirements.
All the positionings are defined when the shaft end is viewed (contrary to the above windings) clockwise detent.

| DIMENSIONS | | |
|---|---|---|
| **DOUBLE MINI SWITCH FOR SERIES AND SIZE** | **CODE** | **L mm** |
| RT25 | 219410 | 29 |
| RT55 | 219430 | 33 |
| RT100 | 219450 | 33 |
| RT230 | 219470 | 35 |
| RT500 | 219480 | 35 |

## POWER RATING CHART




## TEMPERATURE RISE




## ORDERING INFORMATION

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **VITREOUS** | **RT** | **25** | | **L** | | | **AS** | **3K3** | **± 10 %** | **B010** | **e** |
| | MODEL | STYLE | SHAFT LOCKING DEVICE Optional | VARIATION LAW | SPECIAL DESIGN Method N° Optional | WINDING Optional | COMMAND SHAFT II special, please supply a drawing | OHMIC VALUE | TOLERANCE | PACKING | LEAD (PB)-FREE |
| **ACCESOIRES** | **ACC** | **BOUTON** | | **60JF** | | **e** | | | **DB1** | | |
| | MODEL | KNOB | | DIAL | | LEAD (Pb)-FREE | | SPECIAL FEATURES IDLE LUG LEFT | | | |

## SAP PART NUMBERING GUIDELINES

| **RT** | **25** | **L** | **AS** | **3301** | **K** | **B** |
|---|---|---|---|---|---|---|
| MODEL | STYLE | LAW | | OHMIC VALUE | TOLERANCE | PACKING |
| **ACCRF** | **BOUTON** | **60JF** | | | | |
| MODEL | TYPE | STYLE | | | | |

# Disclaimer

All product specifications and data are subject to change without notice.

Vishay Intertechnology, Inc., its affiliates, agents, and employees, and all persons acting on its or their behalf (collectively, “Vishay”), disclaim any and all liability for any errors, inaccuracies or incompleteness contained herein or in any other disclosure relating to any product.

Vishay disclaims any and all liability arising out of the use or application of any product described herein or of any information provided herein to the maximum extent permitted by law. The product specifications do not expand or otherwise modify Vishay’s terms and conditions of purchase, including but not limited to the warranty expressed therein, which apply to these products.

No license, express or implied, by estoppel or otherwise, to any intellectual property rights is granted by this document or by any conduct of Vishay.

The products shown herein are not designed for use in medical, life-saving, or life-sustaining applications unless otherwise expressly indicated. Customers using or selling Vishay products not expressly indicated for use in such applications do so entirely at their own risk and agree to fully indemnify Vishay for any damages arising or resulting from such use or sale. Please contact authorized Vishay personnel to obtain written terms and conditions regarding products designed for such applications.

Product names and markings noted herein may be trademarks of their respective owners.