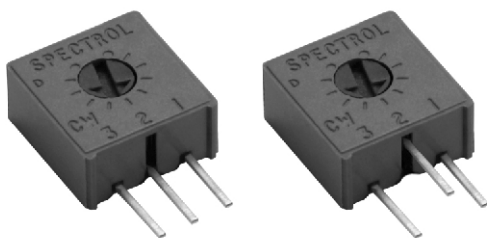


## 3/8" Square (10 mm) Single-Turn Cermet Trimmer



The Model 63 cermet trimmer is available in several pin configurations for top or side adjustment and with a choice of Knob styles for finger setting. Quick adjustment is achieved with multi-finger wiper and the standard resistance range is between 100  $\Omega$  and 2 M $\Omega$  with a tolerance of  $\pm 10\%$ .

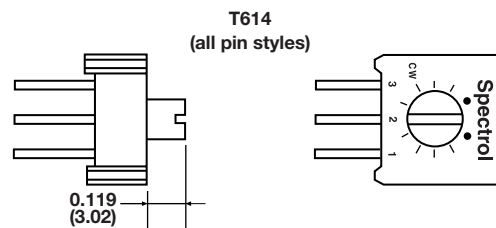
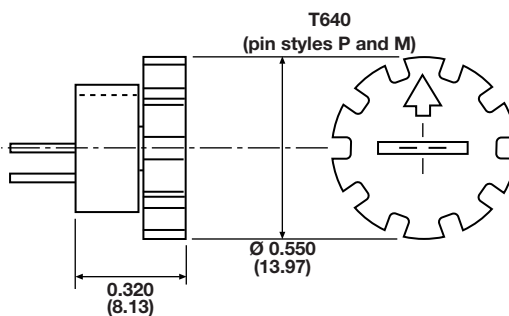
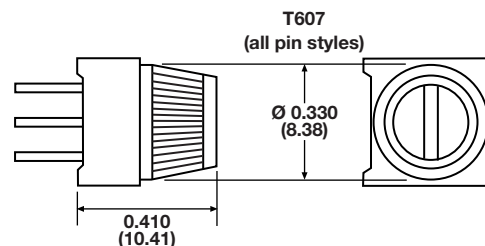
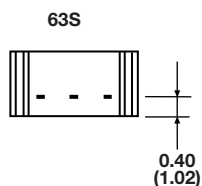
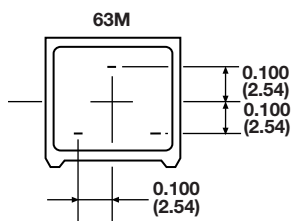
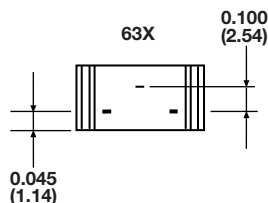
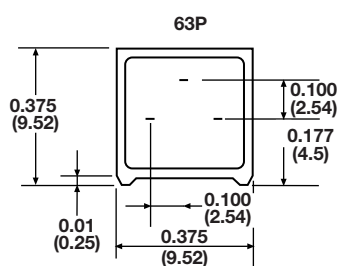
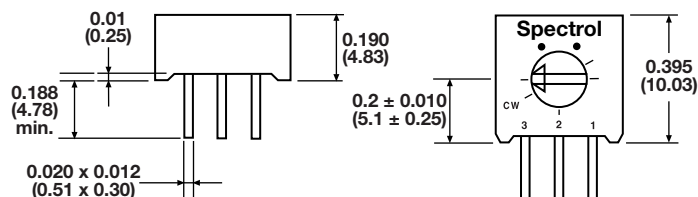
### FEATURES

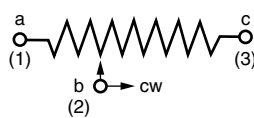
- Arrow and graduations for repeatable settings
- "O" ring seal for solvent and aqueous washing
- Rigid board mounting achieved with pins secured in housing
- Multi-finger wiper for better contact resistance
- Solid end stop
- Tests according to CECC 41000 or IEC 60393-1
- Material categorization: For definitions of compliance please see [www.vishay.com/doc?99912](http://www.vishay.com/doc?99912)



**RoHS**  
COMPLIANT

### DIMENSIONS in inches (millimeters) $\pm 0.02"$ (0.5 mm)



| ELECTRICAL SPECIFICATIONS                       |                                                                                           |
|-------------------------------------------------|-------------------------------------------------------------------------------------------|
| Effective travel                                | 270° nominal                                                                              |
| Resistance range                                | 100 $\Omega$ to 2 M $\Omega$                                                              |
| Resistance tolerance                            | $\pm 10\%$                                                                                |
| End resistance                                  | 2 $\Omega$ or 1 % whichever is greater                                                    |
| Temperature coefficient of resistance (typical) | $\pm 100$ ppm/°C                                                                          |
| Power rating                                    | 0.5 W at + 70 °C derated linearly to 0 W at 125 °C<br>maximum voltage not to exceed 250 V |
| Circuit diagram                                 |         |
| Dielectric withstand voltage                    | 1000 V <sub>AC</sub> at sea level; 250 V <sub>AC</sub> at 80 000 ft (24 000 m)            |
| Insulation resistance (500 V <sub>DC</sub> )    | 1000 M $\Omega$ minimum                                                                   |
| Contact resistance variation                    | 1 % or 1 $\Omega$ , whichever is greater                                                  |

| MECHANICAL SPECIFICATIONS |                                 |
|---------------------------|---------------------------------|
| Mechanical travel         | 300° $\pm$ 50                   |
| Starting torque           | 35 mNm max.                     |
| Weight                    | 0.03 oz. (0.85 g) max.          |
| Resistance element        | Cermet                          |
| 2 terminal adjustability  | $\pm 0.15\%$ of RT              |
| 3 terminal adjustability  | $\pm 0.05\%$ of applied voltage |
| Terminals                 | Pure Sn (code e3)               |

| ENVIRONMENTAL SPECIFICATIONS |                     |
|------------------------------|---------------------|
| Temperature range            | - 55 °C to + 125 °C |
| Climatic category            | 55/125/21           |
| Sealing                      | IP64                |

| PERFORMANCES           |                                       |             |                                  |               |                       |            |
|------------------------|---------------------------------------|-------------|----------------------------------|---------------|-----------------------|------------|
| TESTS                  | CONDITIONS                            | MAX.<br>(R) | CHANGE PER CECC                  |               | PER IEC               | PER MIL    |
|                        |                                       |             | V <sub>AB</sub> /V <sub>AC</sub> | 41100         |                       |            |
| Vibration              | 98 m/s <sup>2</sup> , 10 Hz to 500 Hz | 1 %         | 2 %                              | (PARA 2.3.2)  | Test FC (IEC 6-2-6)   | Method 204 |
| Electrical endurance   | 1000 h                                | 3 %         | -                                | (PARA 2.5.16) | -                     | No equiv.  |
| Soldering              | -                                     | -           | -                                | (PARA 2.3.7)  | Test TB (IEC 68-2-20) | Method 208 |
| Resistance to heat     | -                                     | 1 %         | -                                | (PARA 2.3.7)  | Test B (IEC 68-2-20A) | Method 210 |
| Damp heat steady state | 21 days                               | 3 %         | -                                | (PARA 2.1)    | Test C (IEC 68-2-3)   | Method 103 |
| Mechanical life        | 200 cycles                            | 3 %         | -                                | -             | Method 2              | -          |
| Terminal strength      | 2.2 lbs. (1 kg)                       | min.        | -                                | -             | -                     | -          |

| MARKING                                                                                                                                                                            |  |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| <ul style="list-style-type: none"> <li>Vishay trademark</li> <li>Model</li> <li>Resistance value</li> <li>Tolerance</li> <li>Date code</li> <li>Terminal identification</li> </ul> |  |



## PACKAGING

- In box of 200 pieces code B40 (BO200)
- On request :
  - In box of 100 pieces code B30 (BO100)
  - In tube of 50 pieces code T20 (TU50)

## ORDERING INFORMATION (Part Number)

|       |   |                  |   |                                                    |   |   |           |   |                                                                                     |   |   |                                                               |   |   |
|-------|---|------------------|---|----------------------------------------------------|---|---|-----------|---|-------------------------------------------------------------------------------------|---|---|---------------------------------------------------------------|---|---|
| M     | 6 | 3                | P | 2                                                  | 0 | 1 | K         | B | 4                                                                                   | 0 | T | 6                                                             | 0 | 7 |
| Model |   | STYLE            |   | OHMIC VALUE                                        |   |   | TOLERANCE |   | PACKAGING CODE                                                                      |   |   | SPECIAL NUMBER                                                |   |   |
| M63   |   | P<br>M<br>X<br>S |   | From<br>100 $\Omega$ to 2 M $\Omega$<br>201 = 200R |   |   | K = 10 %  |   | B40 = Box 200 pieces<br>On request:<br>B30 = Box 100 pieces<br>T20 = Tube 50 pieces |   |   | (If applicable)<br>Given by<br>Vishay<br>for custom<br>design |   |   |

## DESCRIPTION (for information only)

|       |       |       |           |         |           |             |
|-------|-------|-------|-----------|---------|-----------|-------------|
| 63    | P     | 200U  | 10 %      | T607    | BO200     | e3          |
| MODEL | STYLE | VALUE | TOLERANCE | SPECIAL | PACKAGING | LEAD FINISH |



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**Please note that some Vishay documentation may still make reference to RoHS Directive 2002/95/EC. We confirm that all the products identified as being compliant to Directive 2002/95/EC conform to Directive 2011/65/EU.**

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Наши преимущества:

- Поставка оригинальных импортных электронных компонентов напрямую с производств Америки, Европы и Азии, а так же с крупнейших складов мира;
- Широкая линейка поставок активных и пассивных импортных электронных компонентов (более 30 млн. наименований);
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- Оперативные сроки поставки под заказ (от 5 рабочих дней);
- Экспресс доставка в любую точку России;
- Помощь Конструкторского Отдела и консультации квалифицированных инженеров;
- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
- Поставка электронных компонентов под контролем ВП;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
- При необходимости вся продукция военного и аэрокосмического назначения проходит испытания и сертификацию в лаборатории (по согласованию с заказчиком);
- Поставка специализированных компонентов военного и аэрокосмического уровня качества (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Actel, Aeroflex, Peregrine, VPT, Syfer, Eurofarad, Texas Instruments, MS Kennedy, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits, General Dynamics и др.);

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## JONHON

«JONHON» (основан в 1970 г.)

Разъемы специального, военного и аэрокосмического назначения:

(Применяются в военной, авиационной, аэрокосмической, морской, железнодорожной, горно- и нефтедобывающей отраслях промышленности)

«FORSTAR» (основан в 1998 г.)

ВЧ соединители, коаксиальные кабели,  
кабельные сборки и микроволновые компоненты:

(Применяются в телекоммуникациях гражданского и специального назначения, в средствах связи, РЛС, а так же военной, авиационной и аэрокосмической отраслях промышленности).



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