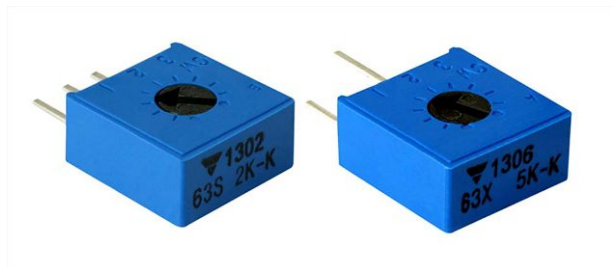


## 3/8" Square (10 mm) Single-Turn Cermet Trimmer



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  $\pm 10\%$ .

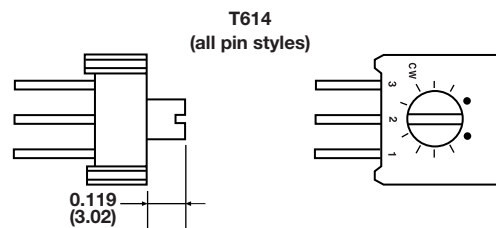
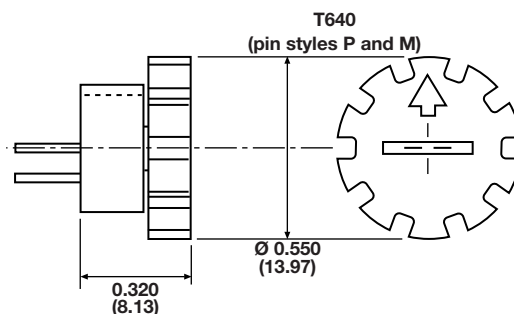
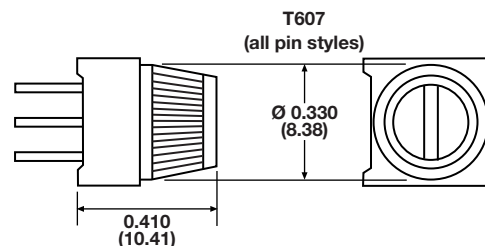
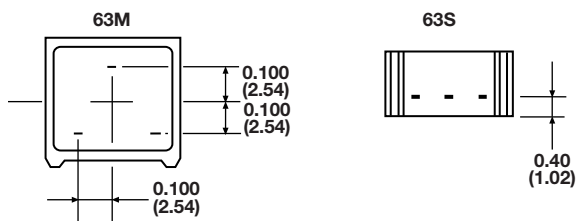
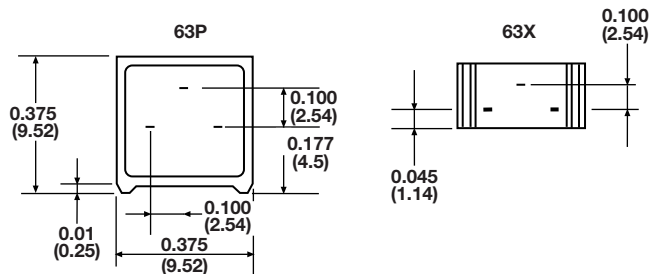
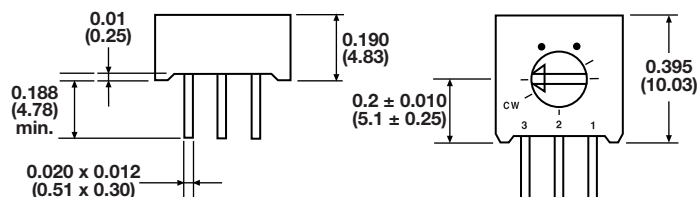
### FEATURES

- 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)

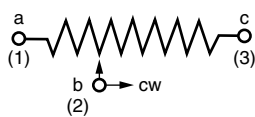


**RoHS**  
COMPLIANT

### 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 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. (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.	-	-	-	-

### Note

- Nothing stated herein shall be construed as a guarantee of quality or durability.

## MARKING

- Vishay trademark
- Model
- Resistance value
- Tolerance
- Date code
- Terminal identification

**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 M X S			From 100 Ω to 2 MΩ 201 = 200R			K = 10 %			B40 = box 200 pieces On request: B30 = box 100 pieces T20 = tube 50 pieces			(If applicable) Given by Vishay for custom design	

**DESCRIPTION (for information only)**

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

**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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