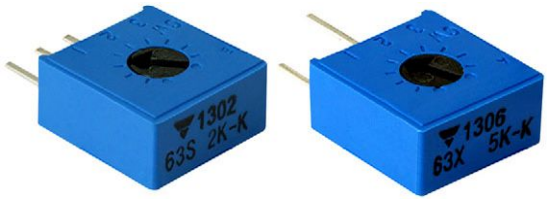
3/8" Square (10 mm) Single-Turn Cermet Trimmer



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

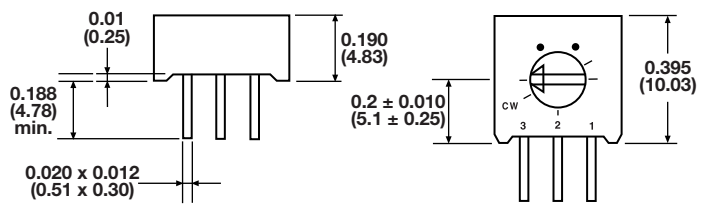
RoHS COMPLIANT

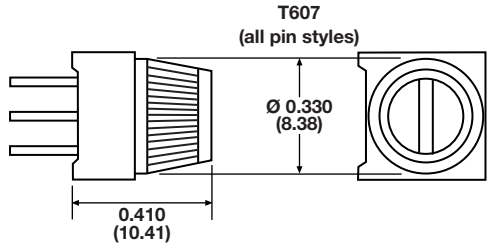
LINKS TO ADDITIONAL RESOURCES

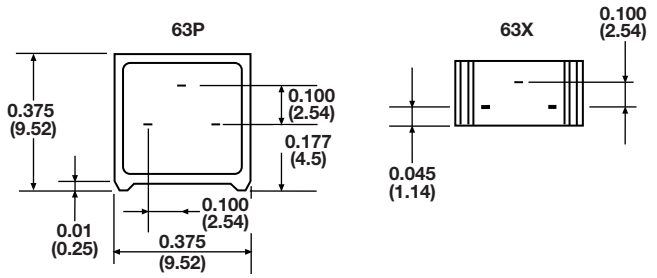
3D Models

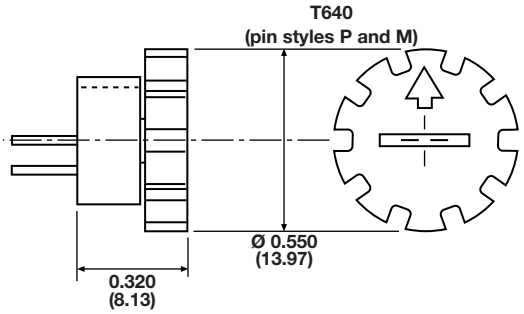
The Model 63 cermet trimmer is available in several pin configurations for top or side adjustment and with a choice of Knob styles for finger setting. Quick adjustment is achieved with multi-finger wiper and the standard resistance range is between 100 Ω and 2 MΩ with a tolerance of ± 10 %.

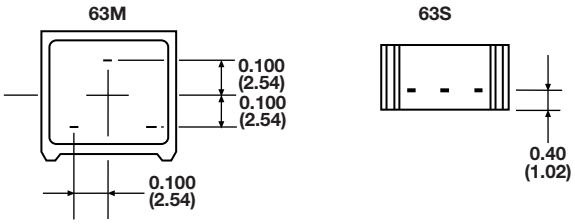
DIMENSIONS in inches (millimeters) ± 0.02" (0.5 mm)

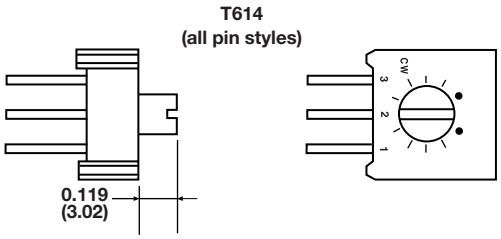


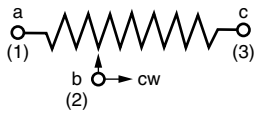










ELECTRICAL SPECIFICATIONS	
Effective travel	270° nominal
Resistance range	100 Ω to 2 MΩ
Resistance tolerance	± 10 %
End resistance	2 Ω or 1 % whichever is greater
Temperature coefficient of resistance (typical)	± 100 ppm/°C
Power rating	0.5 W at +70 °C derated linearly to 0 W at 125 °C maximum voltage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

MECHANICAL SPECIFICATIONS	
Mechanical travel	300° ± 50
Starting torque	35 mNm max.
Weight	0.03 oz. (0.85 g) max.
Resistance element	Cermet
2 terminal adjustability	± 0.15 % of RT
3 terminal adjustability	± 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_{AB}/V_{AC}	41100		
Vibration	98 m/s², 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)

STANDARD RESISTANCE

RESISTANCE (Ω)	RESISTANCE CODE
100	101
200	201
250	251
500	501
1000	102
2000	202
5000	502
10 000	103
20 000	203
25 000	253
50 000	503
100 000	104
200 000	204
250 000	254
500 000	504
1 000 000	105
2 000 000	205

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 (refer to Standard Resistance table)	**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	www.vishay.com/doc?51001
Guidelines for Vishay Sfernice Resistive and Inductive Components	www.vishay.com/doc?52029

ACCESSORIES

Screwdrivers (to order separately)	www.vishay.com/doc?57015