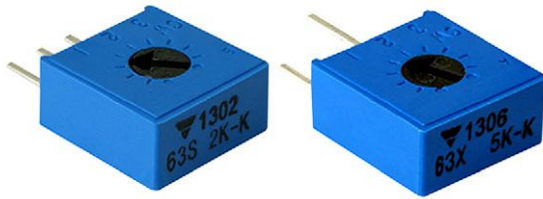


# 3/8" Square (10 mm) Single-Turn Cermet Trimmer



## 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](http://www.vishay.com/doc?99912)



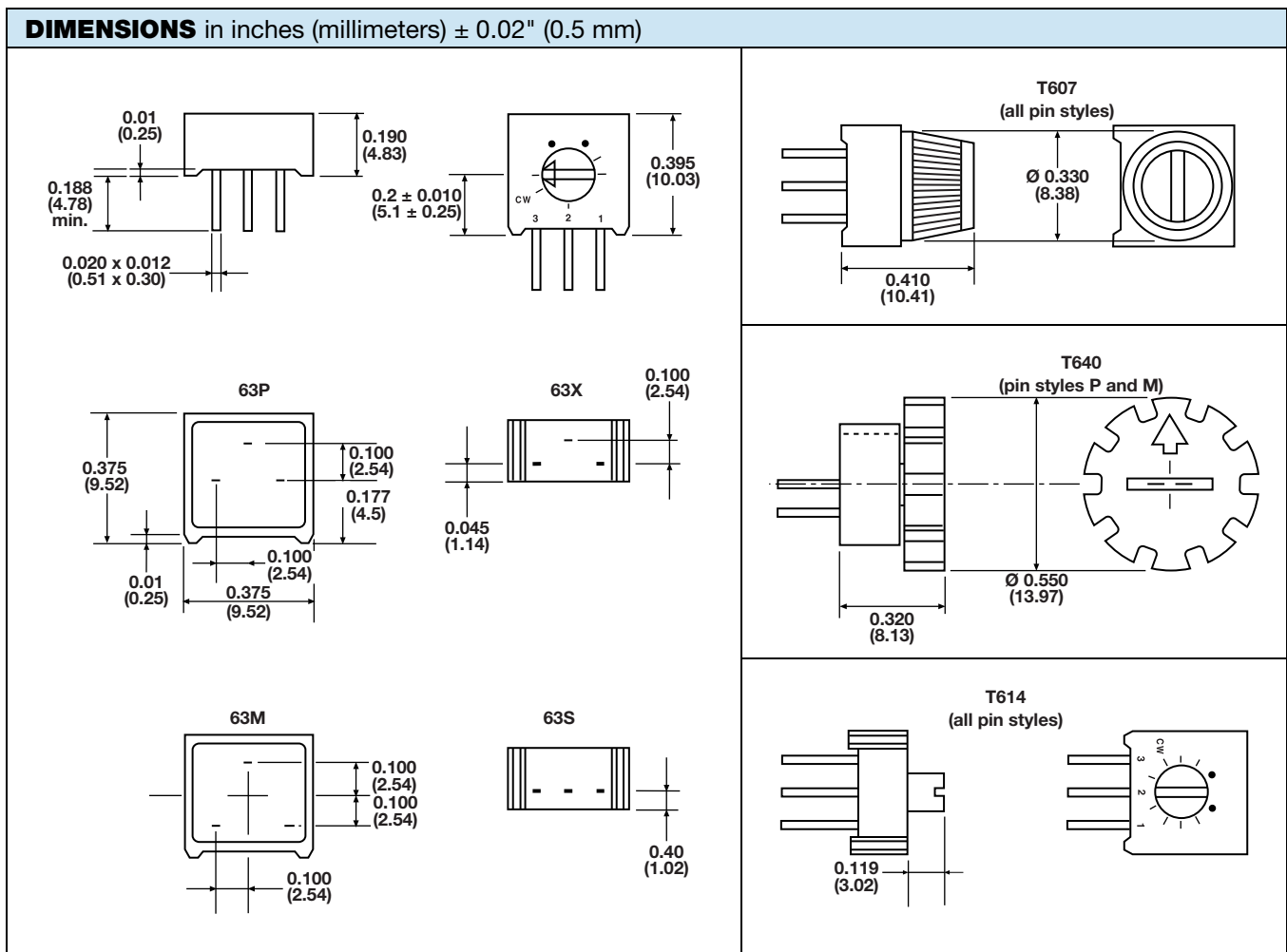
RoHS COMPLIANT

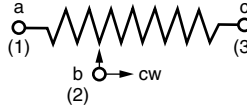
## DESIGN SUPPORT TOOLS

[click logo to get started](#)



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 %.



<b>ELECTRICAL SPECIFICATIONS</b>	
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 <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 MΩ minimum
Contact resistance variation	1 % or 1 Ω, whichever is greater

<b>MECHANICAL SPECIFICATIONS</b>	
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)

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

<b>PERFORMANCES</b>						
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

<b>MARKING</b>
<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
<ul style="list-style-type: none"> <li>In box of 200 pieces code B40 (BO200)</li> <li>On request :               <ul style="list-style-type: none"> <li>In box of 100 pieces code B30 (BO100)</li> <li>In tube of 50 pieces code T20 (TU50)</li> </ul> </li> </ul>

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>