

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



The Model 63 cermet trimmer manufactured in Europe is readily 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 M Ω with a tolerance of $\pm 10\%$. This fully sealed single turn trimmer is continuing to provide excellent performance as the industry standard across a broad spectrum of applications.

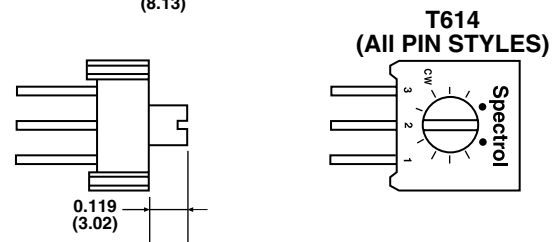
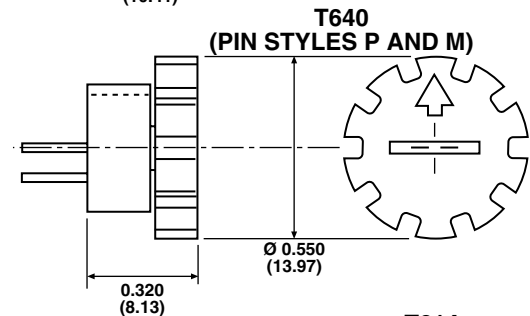
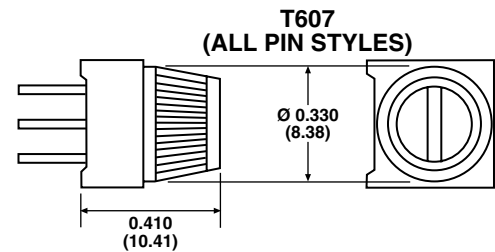
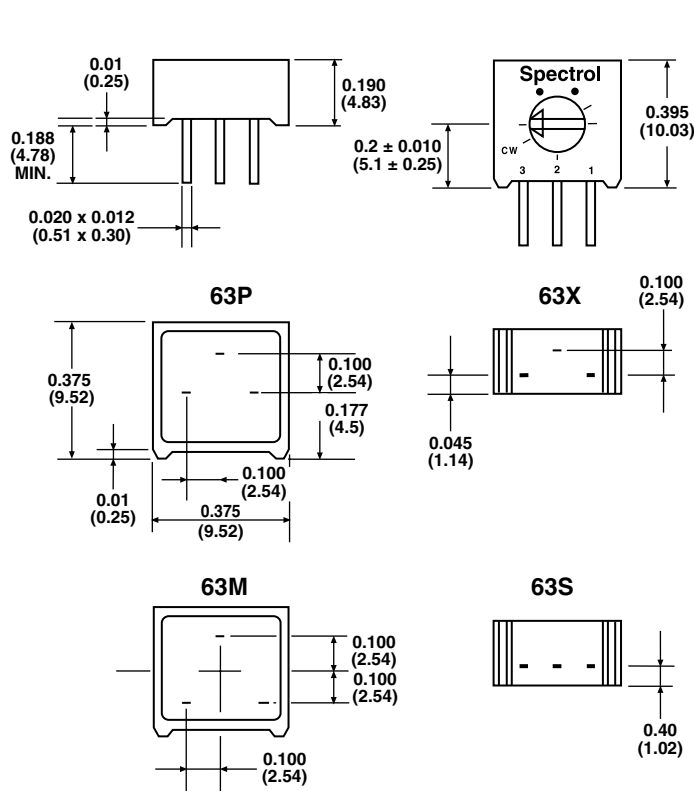
FEATURES

- Arrow and graduations for repeatable settings
- "O" ring seal for solvent and aqueous washing
- I.C. style pins for easy PCB assembly
- Rigid board mounting achieved with pins secured in housing
- Solder plated terminals for good solderability
- High temperature soldered terminations for high reliability
- Multi-finger wiper for better contact resistance
- Solid end stop
- Test according to CECC 41 000
- Compliant to RoHS directive 2002/95/EC



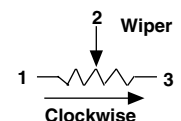
RoHS
COMPLIANT

DIMENSIONS in inches (millimeters)



Tolerances unless otherwise specified ± 0.02 (0.5)

CIRCUIT DIAGRAM



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
Dielectric Withstanding Voltage	1000 V _{AC} at sea level; 250 V _{AC} at 80 000 ft (24 000 meters)
Insulation Resistance (500 V _{DC})	1000 MΩ minimum
Contact Resistance Variation	1 % or 1 Ω, whichever is greater

MECHANICAL SPECIFICATIONS

Stop Strength	Solid
Starting Torque	35 mNm maximum
Weight	0.03 oz. (0.85 g) maximum
Resistance Element	Cermet
2 Terminal Adjustability	± 0.15 % of RT
3 Terminal Adjustability	± 0.05 % of applied voltage

ENVIRONMENTAL SPECIFICATION

Temperature Range	- 55 °C to + 125 °C
Climatic Category	55/125/21
Sealing	Fully sealed container IP67

PERFORMANCES

TEST	CONDITIONS	MAX. (R)	CHANGE PER CECC		PER IEC	PER MIL
			$\frac{V_{AB}}{V_{AC}}$	41 100		
Bumps	390 m/s ² , 4000	1 %	-	(PARA 2.3.3)	TEST EB (IEC 68 - 2 - 29)	NO EQUIV
Vibration	98 m/s ² , 10 to 500 Hz	1 %	2 %	(PARA 2.3.2)	TEST FC (IEC 68 - 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 TB (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

Unit Identification: Manufacturer's name and model number, resistance value, tolerance, date code and terminal identification

ORDERING INFORMATION (Part Number 15 digits)

M	6	3	P	2	0	1	K	B	4	0	T	6	0	7
MODEL			STYLE			OHMIC VALUE		TOLERANCE	PACKAGING CODE			SPECIAL NUMBER		
			P M X S			From 100 Ω to 2 MΩ 201 = 200 Ω		K = 10 %	B40 = Box 200 pieces B30 = Box 100 pieces			(If applicable) Given by VISHAY for custom designer		

PART NUMBER DESCRIPTION (for information only)

63	P	200U	10 %	T607	BO200	e3
MODEL	STYLE	VALUE	TOLERANCE	SPECIAL	PACKAGING	LEAD (Pb)-FREE



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.