

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

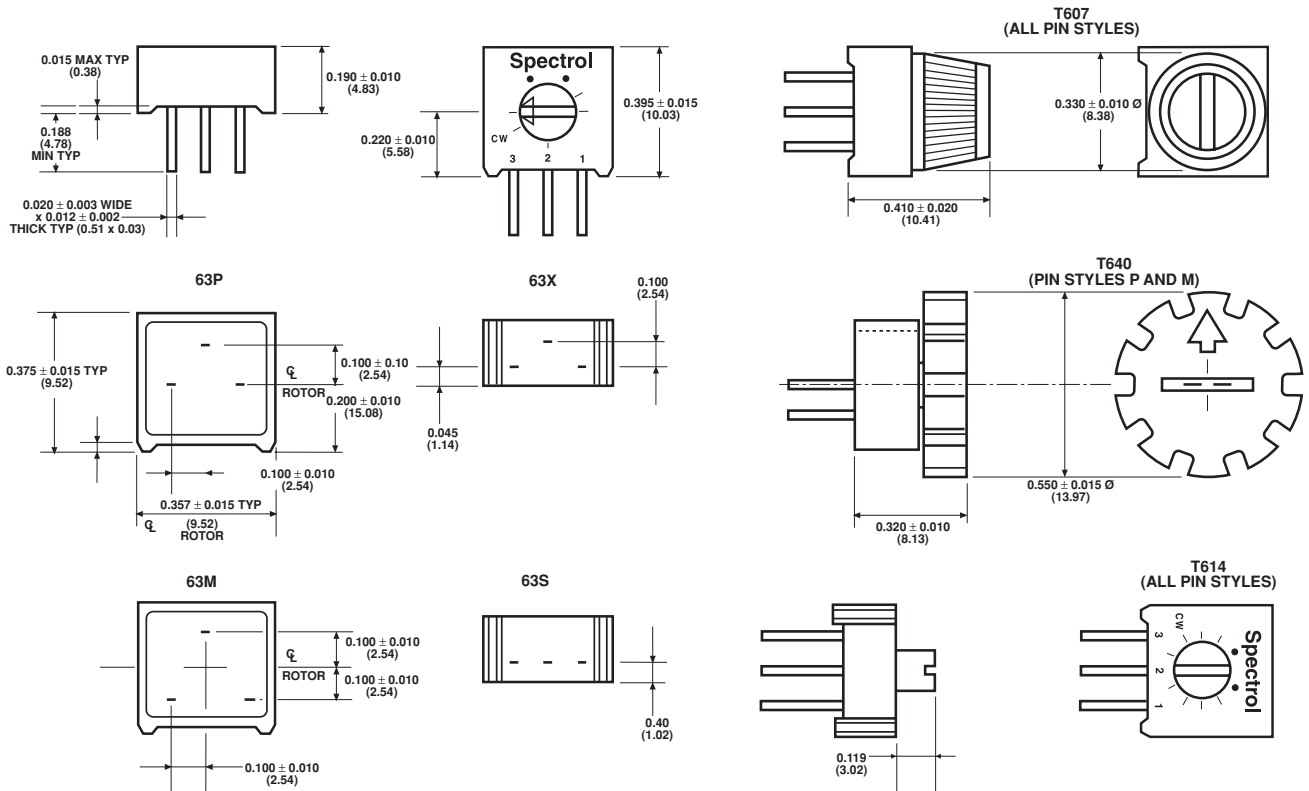


The Model 63 cermet trimmer manufactured in Europe is readily available in several pin configurations for top or side adjustment and with a choice of Knob styles for finger setting. Quick adjustment is achieved with multi finger wiper and the standard resistance range is between 10Ω and 2 MΩ with a tolerance of ± 10%. This sealed (IEC 68-2-17) single turn trimmer is continuing to provide excellent performance as the industry standard across a broad spectrum of applications.

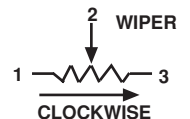
## FEATURES

- 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
- Flame Retardant Housing to UL Rated VO

## DIMENSIONS in inches (millimeters)



TOLERANCES: ± 0.015 (0.38) EXCEPT WHERE NOTED





<b>ELECTRICAL SPECIFICATIONS</b>	
Effective Travel	270° nominal
Resistance Range	10Ω to 2MΩ
Resistance Tolerance	± 10%
End Resistance	2Ω or 1%, whichever is greater
Temperature Coefficient of Resistance	100ppm/°C. 100Ω thru to 2MΩ 0 to + 250ppm/°C below 100Ω
Power Rating	0.5 watts at 70°C derated linearly to zero watts at 125°C Maximum voltage not to exceed 300V
Dielectric Withstanding Voltage	1000VAC at sea level; 250VAC at 80,000 ft (24,000 meters)
Insulation Resistance	1000MΩ minimum
Contact Resistance Variation	1% or 1Ω, whichever is greater

<b>MECHANICAL SPECIFICATIONS</b>	
Stop Strength	Solid
Starting Torque	35mNm maximum
Weight	0.03oz (0.85grams) maximum
Resistance Element	Cermet
2 Terminal Adjustability	± 0.15% of RT
3 Terminal Adjustability	± 0.05% of applied voltage

<b>ENVIRONMENTAL SPECIFICATIONS</b>						
		MAX (R)	CHANGE PER CECC		PER IEC 68.1 PART 1202F	PER MIL
			$\frac{V_{AB}}{V_{AC}}$	41100		
Temperature Range	- 55°C to + 125°C	2%	1%	(PARA 2.3.6)	TEST NA (IEC 68 - 2 - 14)	METHOD 107
Bumps	390m/s <sup>2</sup> , 4000	1%	–	(PARA 2.3.3)	TEST EB (IEC 68 - 2 - 29)	NO EQUIV
Vibration	98m/s <sup>2</sup> , 10 to 500 Hz	1%	2%	(PARA 2.3.2)	TEST FC (IEC 68 - 2 - 6)	METHOD 204
Electrical Endurance	1000 Hour	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 METHOD 1A
Damp Heat Steady State	21 Days	3%	–	(PARA 2.1)	TEST C (IEC 68 - 2 - 3)	METHOD 103
Sealing	85°C for 1 minimum	–	–	AS IEC	TEST QC (IEC 68 - 2 - 17)	METHOD 112
Mechanical Life	200 Cycles	3%	–	–	METHOD 2	–
Terminal Strength	2.2lbs (1Kg)	min	–	–	–	–



**MARKING**

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

<b>ORDERING INFORMATION</b>			
<b>63</b>	<b>P</b>	<b>T607</b>	<b>201</b>
MODEL	PIN STYLE	SPECIAL (OMIT IF STANDARD)	EIA RESISTANCE VALUE
	P, M, X, S	<b>T607</b> - Knob adjust (see drawing) <b>T640</b> - Knob adjust (see drawing) <b>T614</b> - Extended rotor (see drawing)	

<b>SAP PART NUMBERING GUIDELINES</b>														
M	6	3	P	2	0	1	K	B	4	0	T	6	0	7
MODEL			STYLE	OHMIC VALUE			TOL	PACKAGING CODE			SPECIAL (IF APPLICABLE)			
See the end of this data book for conversion tables														