

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


**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
- Multifinger Wiper for Better Contact Resistance
- Solid End Stop
- Flame Retardent Housing to UL Rated VO

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.

<b>ELECTRICAL SPECIFICATIONS</b>	
PARAMETER	
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 @ 70°C derated linearly to zero watts @ 125°C Maximum voltage not to exceed 300V
Dielectric Withstanding Voltage	1000VAC @ sea level; 250VAC @ 80,000 ft (24,000 meters)
Insulation Resistance	1000MΩ minimum
Contact Resistance Variation	1% or 1Ω, whichever is greater

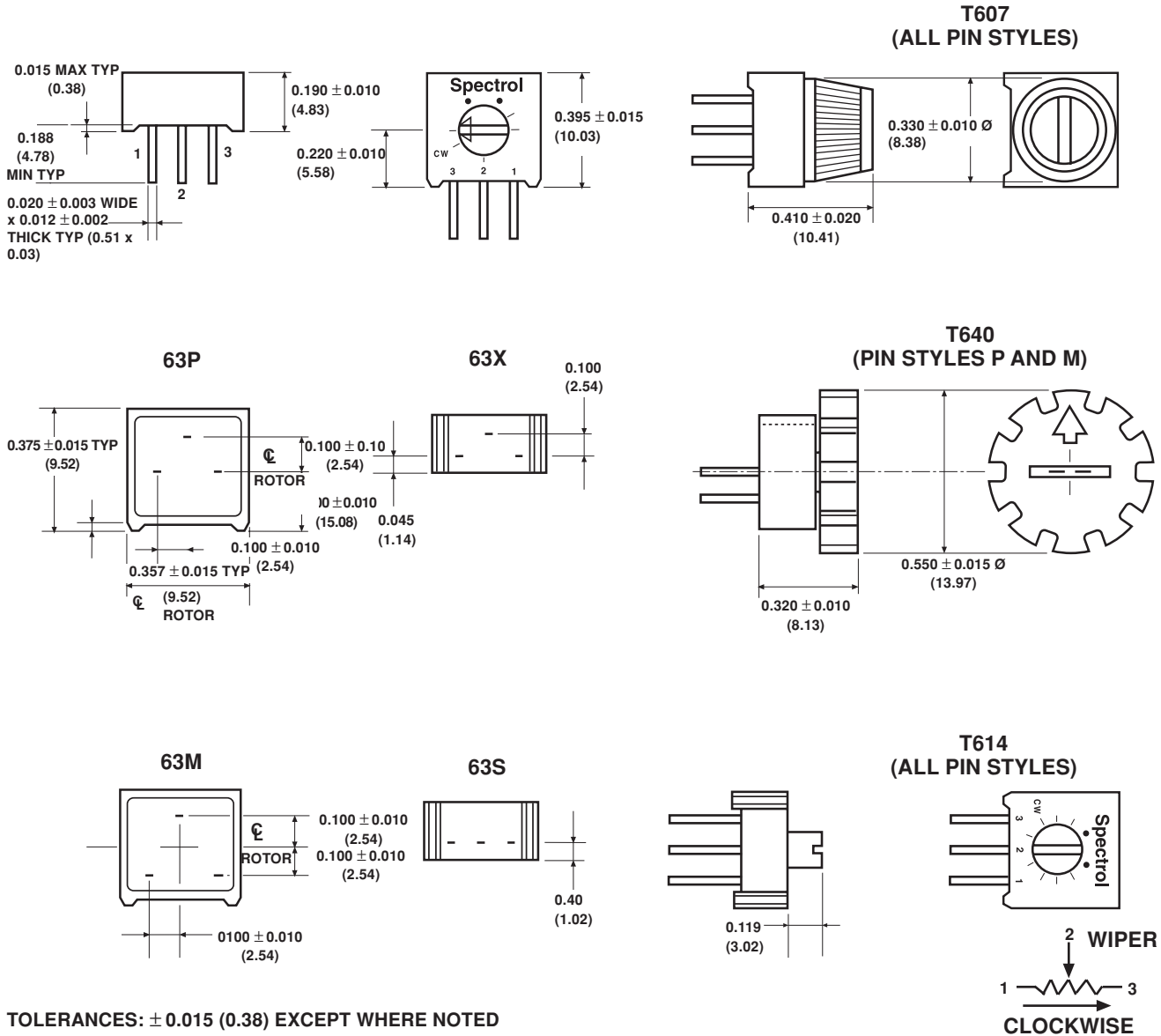
<b>ORDERING INFORMATION</b>			
<b>63</b>	<b>P</b>	<b>XXXX</b>	<b>XXX</b>
MODEL	PIN STYLE	OMIT IF STANDARD	RESISTANCE VALUE
	P, M, X, S		
Example: <b>63 - P - XXXX - XXX</b>			
		<b>T607</b> - Knob adjust (see drawing) <b>T640</b> - Knob adjust (see drawing) <b>T614</b> - Extended rotor (see drawing)	

# Model 63

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



**DIMENSIONS** in inches (millimeters)



TOLERANCES: ± 0.015 (0.38) EXCEPT WHERE NOTED

MECHANICAL SPECIFICATIONS	
PARAMETER	
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>						
PARAMETER		MAX R	CHANGE $\frac{V_{AB}}{V_{AC}}$	PER CECC 41100	PER IEC 68.1 PART 1202F	PER MIL
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	–	–	–	–

<b>STANDARD RESISTANCE</b>	
RESISTANCE $\Omega$	RESISTANCE CODE
10	100
20	200
50	500
100	101
200	201
500	501
1000	102
2000	202
5000	502
10000	103
20000	203
25000	253
50000	503
100000	104
200000	204
250000	254
500000	504
1000000	105
2000000	205

<b>MARKING</b>	
<b>Unit Identification</b>	Manufacturer's name and model number, resistance value, tolerance, date code and terminal identification