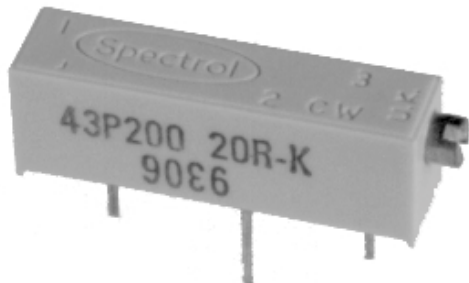


# Model 43

Spectrol

## 3/4" Rectangular (19mm) Multiturn Cermet Trimmer



### FEATURES

- Panel Mount, Clear Lid Versions Available
- Chevron Shaft for Sealing and Smooth Consistent Torque
- Unique "T" Slider Block for Excellent Stability and Setability
- Solder Plated Terminals for Good Solderability
- Soldered Terminations for Improved Reliability
- I.C. Style Pins for Easier Board Insertion
- Multifinger Wiper for Better C.R.V.

The Model 43 is manufactured to the highest international standards. This product, sealed to 85°C for 1 min. (IEC. 68-2-17) has an effective travel of 20 turns nominal and a resistance range of 10Ω to 2MΩ.

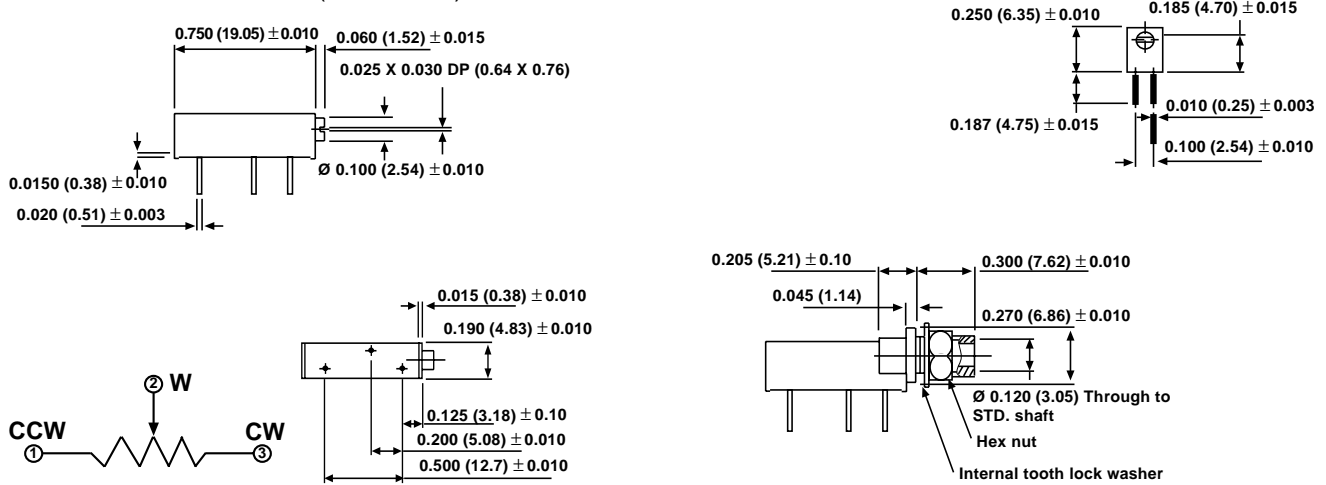
ELECTRICAL SPECIFICATIONS	
PARAMETER	
Effective Travel	20 turns nominal
Resistance Range	10Ω to 2MΩ
Resistance Tolerance	± 10%
End Resistance	2Ω maximum
Temperature Coefficient of Resistance	± 100ppm/°C. 100Ω to 2MΩ -100 to + 200ppm/°C. 10Ω, 20Ω and 50Ω
Power Rating	0.5 watt @ 70°C, derated linearly to zero watts @ 125°C Maximum voltage not to exceed 400V
Dielectric Withstanding Voltage	1000VAC @ sea level, 250VAC @ 80,000 feet (24,000 metres)
Insulation Resistance	1000MΩ minimum
Contact Resistance Variation	1% or 1Ω, whichever is greater

STANDARD RESISTANCE VALUES	
RESISTANCE Ω	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

ORDERING INFORMATION		
<b>43P</b>	<b>XXXX</b>	<b>XXX</b>
MODEL AND PIN STYLE	<b>T000</b> - Omit if Standard <b>T601</b> - Panel Mount <b>T040</b> - Clear Lid	RESISTANCE VALUE
Example: <b>43P - XXXX - XXX</b>		

**3/4" Rectangular (19mm) Multiturn Cermet Trimmer Spectrol**

DIMENSIONS in inches (millimeters)



ENVIRONMENTAL SPECIFICATIONS						
PARAMETER		MAX R	CHANGE $\frac{V_{AB}}{V_{AC}}$	PER CECC 41100	PER IEC 68.1 PART	PER MIL 202F
Temperature Range	- 55°C to + 55°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 500Hz	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 Rate	21 days	3%	-	(PARA 2.1)	TEST C (IEC 68 - 2 - 3)	METHOD 103
Sealing	85°C for 1 min	-	-	AS IEC	TEST QC (IEC 68 - 2 - 17)	METHOD 112
Mechanical Life	200 Cycles	3%	-	-	METHOD 2	-
Terminal Strength	2.2lbs (1kg)	min	-	-	-	-

MECHANICAL SPECIFICATIONS	
PARAMETER	
Stop	Wiper idles against stop
Operating Torque	22.5mNm maximum
Rotational Life	200 cycles min with a max change of $\pm 2\%$ in total resistance
Weight	0.04oz (1.2gm) maximum
Resistance Element	Cermet
Stability	$\pm 0.05\%$ RT

RESISTANCE VALUES	
Ohms	10R, 20R, 50R, 100R, 200R, 500R, 1K, 2K, 5K, 10K, 20K, 25K, 50K, 100K, 200K, 250K, 500K, 1M, 2M

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