# Vishay Spectrol



# 3/4" Rectangular (19mm) Multi-Turn Cermet Trimmer

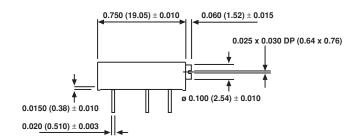


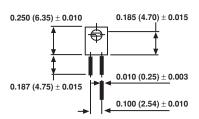
The Model 43 is manufactured to the highest international standards. This product, sealed to 85°C for 1 minute (IEC. 68-2-17) has an effective travel of 20 turns nominal and a resistance range of  $10\Omega$  to  $2M\Omega$ .

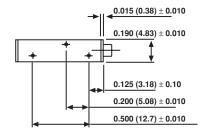
### **DIMENSIONS** in inches (millimeters)

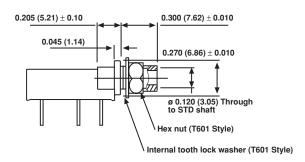
### **FEATURES**

- 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
- · Solder terminations for improved reliability
- I.C. style pins for easier board insertion
- Multi-finger wiper for better C.R.V.









#### **CIRCUIT DIAGRAM**

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ELECTRICAL SPECIFICATIONS				
Resistive Element	cermet			
Electrical Travel	20 turns nominal			
Resistance Range	10 $\Omega$ to 2M $\Omega$			
Resistance Tolerance	± 10%			
Power Rating	0.5W at + 70°C, derated linearly to zero watts at 125°C Maximum voltage not to exceed 400V			
Temperature Coefficient of Resistance	$\pm$ 100ppm/°C. 100 $\Omega$ to 2M $\Omega$ - 100 to 200ppm/°C. 10 $\Omega$ , 20 $\Omega$ and 50 $\Omega$			
Contact Resistance Variation	1% Rn or 1 $\Omega$ , whichever is greater			
End Resistance	$2\Omega$ or 1%, whichever is greater			
Dielectric Withstanding Voltage	1000VAC at sea level, 250VAC at 80, 00 feet (24, 000 meters)			
Insulation Resistance (500VDC)	1000MΩ minimum			

### **MECHANICAL SPECIFICATIONS**

**ENVIRONMENTAL SPECIFICATIONS** 

Rotational Life Operating Torque End Stop Torque Unit Weight (max. g) Stability 200 cycles min. ±2% res. 5 oz (35mNm) max wiper idles against stop

1.13 ± 0.05% RT **Temperature Range**- 55°C to + 125°C **Climatic Category**− 55°C to + 125°C

55 / 125 / 21

ENVIRONMENTAL SPECIFICATIONS						
TESTS	CONDITIONS	MAX R	CHANGE VAB VAC	PER CECC 41100	PER IEC 68.1 PART	PER MIL 202F
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 hours	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 minute	_	_	AS IEC	TEST QC (IEC 68-2-17)	METHOD 112
Mechanical Life	200 cycles	3%	_	_	METHOD 2	_
Terminal Strength	2.2lbs (1kg)	min	_	_	_	_

### **MARKING**

Р	ri	n	teo	٦.
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- VISHAY trademark

model

- style

– ohmic value (in  $\Omega$ ,  $k\Omega$ ,  $M\Omega$ )

- tolerance (in %)

- manufacturing date

- marking of terminal 3

ORDERING INFORMATION		
43P MODEL AND PIN STYLE	SPECIAL (omit if standard)	<b>103</b> EIA RESISTANCE VALUE
	T601 - Panel mount T602 - Base rise	

SAP PART NUMBERING GUIDELINES				
M 4 3 P  MODEL	1 0 3 OHMIC VALUE	K L TOL	B 4 0 PACKAGING CODE	SPECIAL (IF APPLICABLE)
See the end of this data book for conversion tables				

# **Legal Disclaimer Notice**



Vishay

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