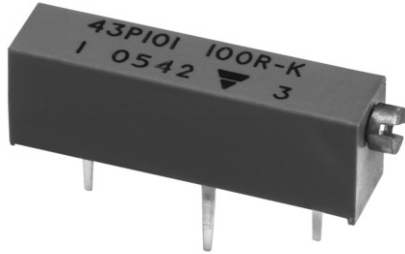
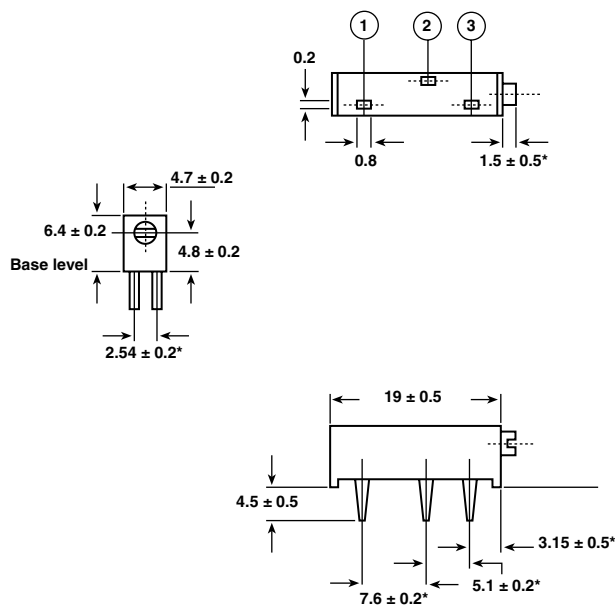


3/4" Rectangular (19 mm) Multi-Turn Cermet Trimmer



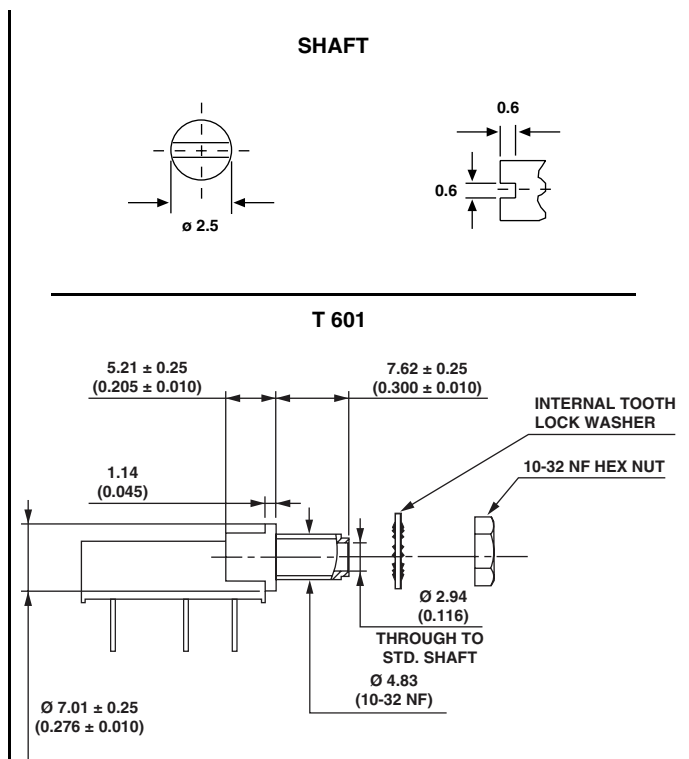
The Model 43 is manufactured to the highest international standards. This product, sealed to 85 °C for 1 minute (IEC. 68-2-17) has an effective travel of 18 turns nominal and a resistance range of 10 Ω to 2 M Ω .

DIMENSIONS in inches (millimeters)

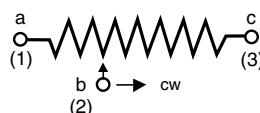


FEATURES

- Panel mount
- Chevron shaft for sealing and smooth consistent torque
- Solder terminations for improved reliability
- Multi-finger wiper for better C.R.V.



CIRCUIT DIAGRAM



Tolerance unless otherwise specified ± 0.5

ELECTRICAL SPECIFICATIONS

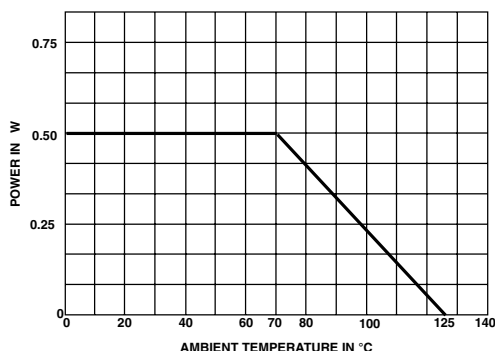
Resistive Element	cermet	
Electrical Travel	15 turns \pm 1	
Resistance Range	10 Ω to 2.2 M Ω	
Standard series E3	1 - 2.2 - 4.7 and 1 - 2 - 5	
Tolerance	Standard	\pm 10 %
	On Request	\pm 5 %
Power Rating	Linear	0.50 W at + 70 °C
	Logarithmic	not applicable
Temperature Coefficient	See Standard Resistance Element Table	
Limiting Element Voltage (Linear Law)	250 V	
Contact Resistance Variation	2 % Rn or 1 Ω	
End Resistance (Typical)	1 Ω	
Dielectric Strength (RMS)	1000 V	
Insulation Resistance (500 VDC)	10 ⁶ M Ω	

MECHANICAL SPECIFICATIONS

Mechanical Travel	18 turns \pm 5
Operating Torque (max. Ncm)	2
End Stop Torque	clutch action
Unit Weight (max. g)	1
Wiper (actual travel)	positioned at approx. 50 %

Environmental specifications

Temperature Range	- 55 °C to + 125 °C
Climatic Category	55/125/56
Sealing	fully sealed container IP67

POWER RATING CHART**PERFORMANCE**

TESTS	CONDITIONS	TYPICAL VALUES AND DRIFTS	
		$\frac{\Delta R T}{R T}$ (%)	$\frac{\Delta R_{1-2}}{R_{1-2}}$
Load Life	1000 hours at rated power 90°/30° - ambient temp. 70 °C	\pm 1 % Contact res. variation: < 3 % Rn	\pm (3 % \pm 5 Ω)
Climatic Sequence	Phase A dry heat 125 °C Phase B damp heat Phase C cold - 55 °C Phase D damp heat 5 cycles	\pm 0.5 %	\pm 1 %
Long Term Damp Heat	56 days	\pm 0.5 % Dielectric strength: 1000 V _{RMS} Insulation resistance: > 10 ⁴ M Ω	\pm 1 %
Rapid Temperature Change	5 cycles - 55 °C at + 125 °C	\pm 0.5 %	$\frac{\Delta V_{1-2}}{V_{1-3}} \leq \pm$ 1 %
Shock	50 g at 11 m seconds 3 successive shocks in 3 directions	\pm 0.2 %	\pm 0.3 %
Vibration	10 - 55 Hz 0.75 mm or 10 g during 6 hours	\pm 0.2 %	$\frac{\Delta V_{1-2}}{V_{1-3}} \leq \pm$ 0.3 %
Rotational Life	200 cycles	\pm (2 % + 3 Ω) Contact res. variation: < 2 % Rn	



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

Vishay Spectrol

STANDARD RESISTANCE ELEMENT DATA

STANDARD RESISTANCE VALUES	LINEAR LAW			TYPICAL TCR - 55 °C + 125 °C ppm/°C
	MAX. POWER AT 70 °C	MAX. WORKING VOLTAGE	MAX. WIPER CUR.	
Ω	W	V	mA	
10	0.5	2.24	224	± 100
22	0.5	3.32	151	
47	0.5	4.85	103	
100	0.5	7.07	71	
220	0.5	10.5	48	
470	0.5	15.3	33	
1K	0.5	22.4	22	
2K2	0.5	33.2	15	
4K7	0.5	48.5	10	
10K	0.5	70.7	7.1	
22K	0.5	105	4.8	
47K	0.5	153	3.3	
100K	0.5	224	2.2	
220K	0.28	250	1.1	
470K	0.13	250	0.5	
1M	0.06	250	0.3	

MARKING

Printed:

- VISHAY trademark
- model
- ohmic value
- manufacturing date
- marking of terminal 3

PACKAGING

- In box of 200 pieces, code BO200
- In tube by 25 pieces, code "TU25"

ORDERING INFORMATION

43P MODEL AND PIN STYLE	103 EIA RESISTANCE VALUE	T000 SPECIAL (omit if standard) T601 - Panel mount	BO200 PACKAGING on request: TU25	e3 LEAD FINISH e3: pure Sn
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SAP PART NUMBERING GUIDELINES

M	4	3	P	1	0	3	K	B	4	0				
MODEL				OHMIC VALUE			TOL.	PACKAGING CODE			SPECIAL (IF APPLICABLE)			

See the end of this data book for conversion tables



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