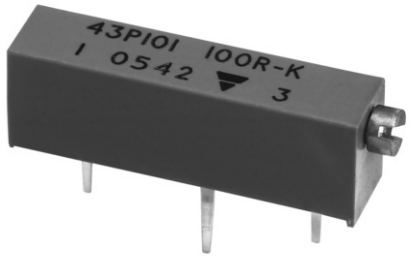
3/4" Rectangular (19 mm)
Multi-Turn Cermet Trimmer



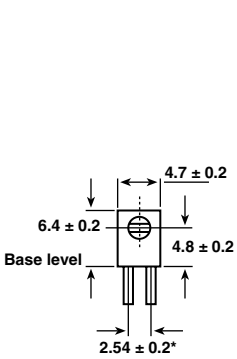
FEATURES

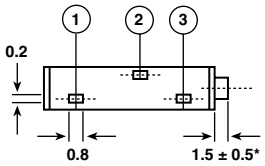
- Panel mount
- Chevron shaft for sealing and smooth consistent torque
- Solder terminations for improved reliability
- Multi-finger wiper for better C.R.V.

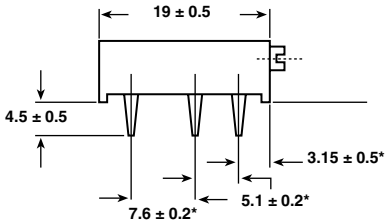
RoHS COMPLIANT

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 MΩ.

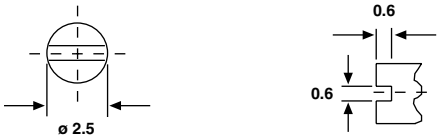
DIMENSIONS in inches (millimeters)



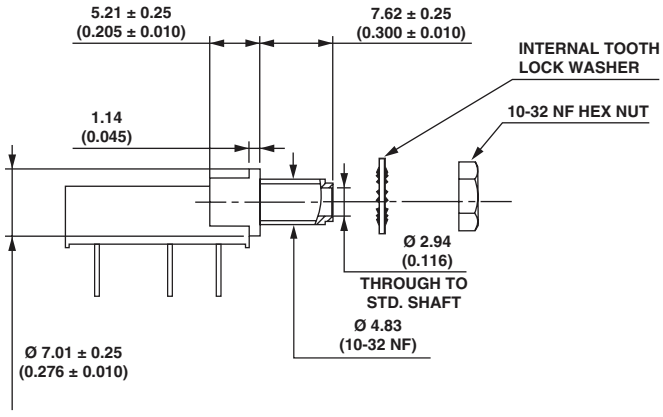




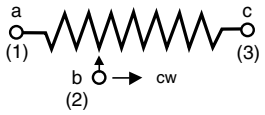
SHAFT



T 601



CIRCUIT DIAGRAM



Tolerance unless otherwise specified ± 0.5

ELECTRICAL SPECIFICATIONS		
Resistive Element		cermet
Electrical Travel		15 turns ± 1
Resistance Range		10 Ω to 2.2 MΩ
Standard series E3		1 - 2.2 - 4.7 and 1 - 2 - 5
Tolerance	**Standard**	± 10 %
	On Request	± 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 MΩ

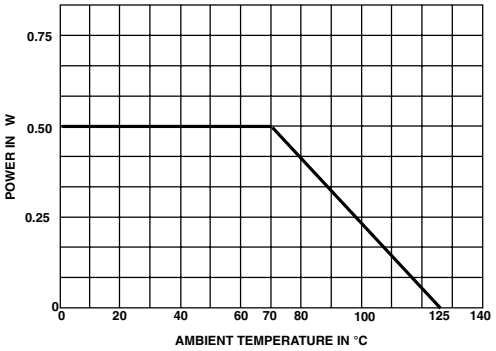
MECHANICAL SPECIFICATIONS

Mechanical Travel 18 turns ± 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** $\frac{\Delta RT}{RT}$ **(%)**	$\frac{\Delta R_{1-2}}{R_{1-2}}$
Load Life	1000 hours at rated power 90'/30' - ambient temp. 70 °C	± 1 % Contact res. variation: < 3 % Rn	± (3 % ± 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	± 0.5 %	± 1 %
Long Term Damp Heat	56 days	± 0.5 % Dielectric strength: 1000 V_{RMS} Insulation resistance: > 10^4 MΩ	± 1 %
Rapid Temperature Change	5 cycles - 55 °C at + 125 °C	± 0.5 % $\frac{\Delta V_{1-2}}{V_{1-3}}$	≤ ± 1 %
Shock	50 g at 11 m seconds 3 successive shocks in 3 directions	± 0.2 %	± 0.3 %
Vibration	10 - 55 Hz 0.75 mm or 10 g during 6 hours	± 0.2 % $\frac{\Delta V_{1-2}}{V_{1-3}}$	≤ ± 0.3 %
Rotational Life	200 cycles	± (2 % + 3 Ω) Contact res. variation: < 2 % Rn	

STANDARD RESISTANCE ELEMENT DATA

STANDARD RESISTANCE VALUES	LINEAR LAW			TYPICAL TCR - 55 °C + 125 °C
	MAX. POWER AT 70 °C	MAX. WORKING VOLTAGE	MAX. WIPER CUR.	
Ω	W	V	mA	ppm/°C
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	**103**	**T000**	**BO200**	**e3**
MODEL AND PIN STYLE	EIA RESISTANCE VALUE	SPECIAL (omit if standard)	PACKAGING	LEAD FINISH
		T601 - Panel mount	on request: TU25	e3: pure Sn

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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All product specifications and data are subject to change without notice.

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