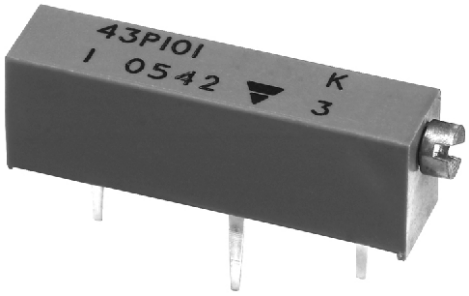
3/4" Rectangular (19 mm)
Multi-Turn Cermet Trimmer

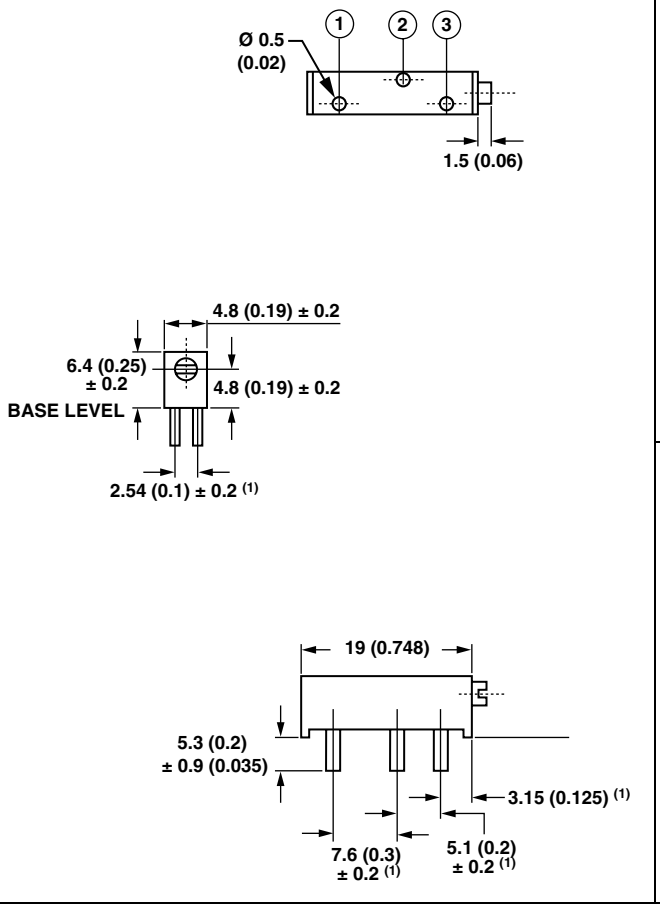


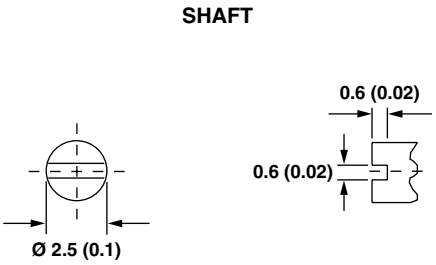
FEATURES

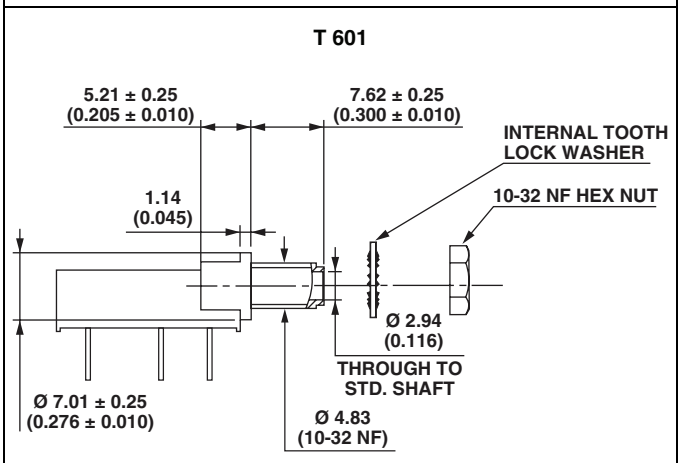
- 0.75 W at 70 °C
- Wide ohmic value range (10 Ω to 5 MΩ)
- Panel mount available
- Chevron shaft for sealing and smooth consistent torque
- Solder terminations for improved reliability
- Multi-finger wiper for better C.R.V.
- Compliant to RoHS directive 2002/95/EC since date code 0506

RoHS COMPLIANT

DIMENSIONS in millimeters (inches) ± 0.5 mm (± 0.02)

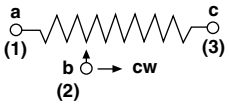
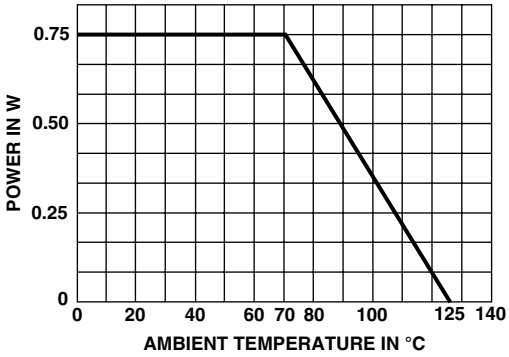






Note

(1) To be measured at base level

ELECTRICAL SPECIFICATIONS		
Resistive Element		Cermet
Electrical Travel		15 turns ± 1
Resistance Range		10 Ω to 5 MΩ
Standard Series E3		1 - 2 - 5
Tolerance	**standard**	± 10 %
	on request	± 5 %
Power Rating	**linear**	0.75 W at + 70 °C
	logarithmic	Not applicable
		CIRCUIT DIAGRAM  
Temperature Coefficient		See Standard Resistance Element table
Limiting Element Voltage (Linear Law)		400 V
Contact Resistance Variation		1 % Rn or 1 Ω max.
End Resistance (Typical)		1 % or 2 Ω
Dielectric Strength (RMS)		1000 V
Insulation Resistance (500 V_{DC})		10^3 MΩ min.

MECHANICAL SPECIFICATIONS	
Mechanical Travel	18 turns ± 5
Operating Torque (Max. Ncm)	3.5
End Stop Torque	Clutch action
Net Weight (max. g)	1.2
Wiper (Actual Travel)	Positioned at approx. 50 %
Lead Finish	e3: Pure Sn

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

PERFORMANCE

TESTS	CONDITIONS	TYPICAL VALUES AND DRIFTS	
		$\Delta R_T/R_T$ (%)	$\Delta R_{1\text{-}2}/R_{1\text{-}2}$ (%)
Load Life	1000 h at rated power 90'/30' - ambient temp. 70 °C	± 4 % Contact res. variation: < 3 % Rn	
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	± 3 % Dielectric strength: 1000 V_{RMS} Insulation resistance: > 20 MΩ	± 1 %
Rapid Temperature Change	5 cycles - 55 °C at + 125 °C	± 0.5 %	$\Delta V_{1\text{-}2}/V_{1\text{-}3} \leq \pm 2$ %
Shock	50 g at 11 ms 3 successive shocks in 3 directions	± 2 %	± 2 %
Vibration	10 Hz to 55 Hz 0.75 mm or 10 g during 6 h	± 2 %	$\Delta V_{1\text{-}2}/V_{1\text{-}3} \leq \pm 2$ %
Rotational Life	200 cycles	± (3 % + 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	0.75	2.74	274	± 100
20		3.87	194	
50		6.12	122	
100		8.66	87	
200		12.2	61	
500		19.4	39	
1K		27.4	27	
2K		38.7	19	
5K		61.2	12	
10K		86.6	8.7	
20K		122	6.1	
50K		194	3.9	
100K		274	2.7	
200K	0.75	387	1.9	
500K	0.32	400	0.80	
1M	0.16	400	0.40	
2M	0.08	400	0.20	
4M	0.03	400	0.08	

MARKING

Printed:

- Vishay trademark
- Vishay part number or model/ ohmic value code/ tolerance code
- Manufacturing date
- Marking of terminals 1 and/or 3

PACKAGING

- In box of 200 pieces code B40 (BO200)
- In box of 100 pieces code B30 (BO100)
- In tube by 25 pieces code T10 (TU25)

ORDERING INFORMATION (part number 15 digits)

M	4	3	P	1	0	3	K	B	4	0	T	6	0	1

MODEL	STYLE	OHMIC VALUE	TOLERANCE	PACKAGING	SPECIAL NUMBER
M43	**P**	From 100 Ω to 5 MΩ **103** = 10 kΩ	**K** = 10 % On request: **J** = 5 %	**B40** = Box 200 pieces On request: **B30** = Box 100 pieces **T10** = Tube 25 pieces	(If applicable) Given by Vishay for custom design

PART NUMBER DESCRIPTION (for information only)

43	P	10K	10 %	T601	BO100	e3
MODEL	STYLE	VALUE	TOLERANCE	SPECIAL	PACKAGING	LEAD FINISH

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