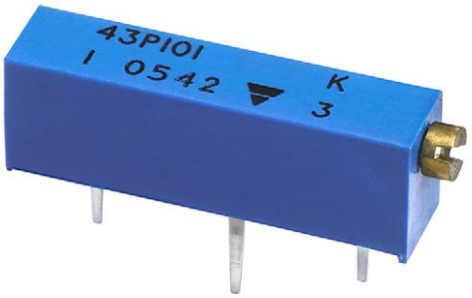
3/4" Rectangular (19 mm) Multi-Turn Cermet Trimmer



FEATURES

- 0.75 W at 70 °C
- Wide ohmic value range (10 Ω to 5 MΩ)
- Panel mount available
- Multi-finger wiper for better C.R.V.
- Tests according to CECC 41000 or IEC 60393-1
- Material categorization: for definitions of compliance please see www.vishay.com/doc?99912

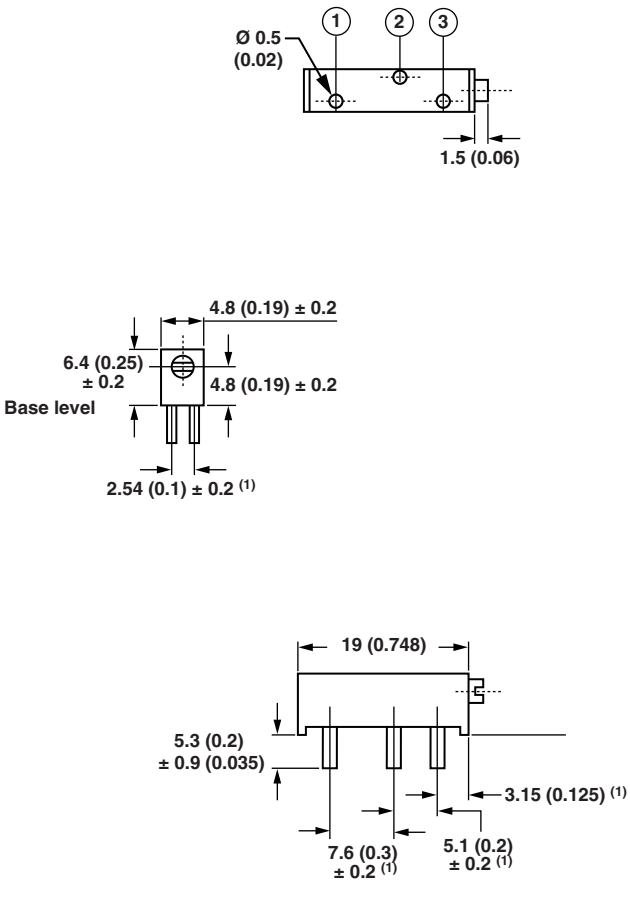
RoHS COMPLIANT

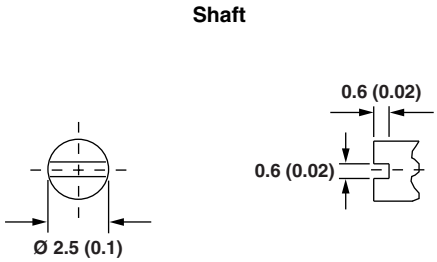
DESIGN SUPPORT TOOLS

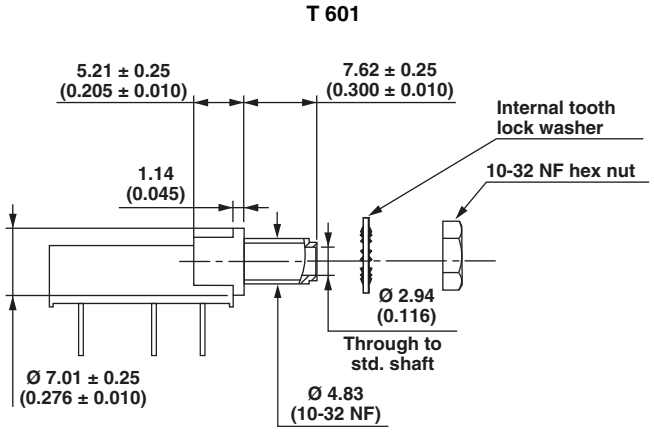
click logo to get started

3D Models Available

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

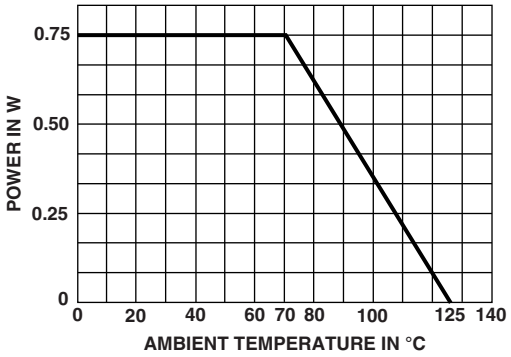
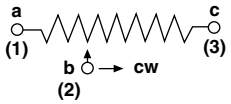






Note
(1) To be measured at base level

For technical questions, contact: sferpottrimmers@vishay.com
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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 %
Power rating Linear	0.75 W at +70 °C 
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 %
Terminals	Pure Sn (code e3)

ENVIRONMENTAL SPECIFICATIONS	
Temperature range	-55 °C to +125 °C
Climatic category	55/125/4
Sealing	Fully sealed - IP67

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PERFORMANCES

TESTS	CONDITIONS	TYPICAL VALUES AND DRIFTS		
		$\Delta R_T/R_T$ (%)	$\Delta V_{1\text{-}2}/V_{1\text{-}3}$ (%)	OTHER
Load life	1000 h at rated power 90'/30' - ambient temp. 70 °C	± 4 %	-	-
Humidity	4 days	± 3 %	-	Dielectric strength: 1000 V_{RMS} Insulation resistance: > 20 MΩ
Rapid temperature change	5 cycles -55 °C to +125 °C	± 0.5 %	± 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 %	± 2 %	-
Rotational life	200 cycles	± (3 % + 1 Ω)	-	Contact res. variation: < 1 % Rn

Note

- Nothing stated herein shall be construed as a guarantee of quality or durability

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	0.75	3.87	194	
50	0.75	6.12	122	
100	0.75	8.66	87	
200	0.75	12.2	61	
500	0.75	19.4	39	
1K	0.75	27.4	27	
2K	0.75	38.7	19	
5K	0.75	61.2	12	
10K	0.75	86.6	8.7	
20K	0.75	122	6.1	
50K	0.75	194	3.9	
100K	0.75	274	2.7	
200K	0.75	387	1.9	
500K	0.32	400	0.8	
1M	0.16	400	0.4	
2M	0.08	400	0.2	
4M	0.03	400	0.08	

MARKING

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

PACKAGING

- In box of 200 pieces code B40 (BO200)

On request:

- In box of 100 pieces code B30 (BO100)
- In tube of 25 pieces code T10 (TU25)

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ORDERING INFORMATION (Part Number)

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 %	**B40** = box 200 pieces On request: **B30** = box 100 pieces **T10** = tube 25 pieces	(If applicable) Given by Vishay for custom design

DESCRIPTION (for information only)

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

RELATED DOCUMENTS

APPLICATION NOTES	
Potentiometers and Trimmers	www.vishay.com/doc?51001
Guidelines for Vishay Sfernice Resistive and Inductive Components	www.vishay.com/doc?52029

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