

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



#### **FEATURES**

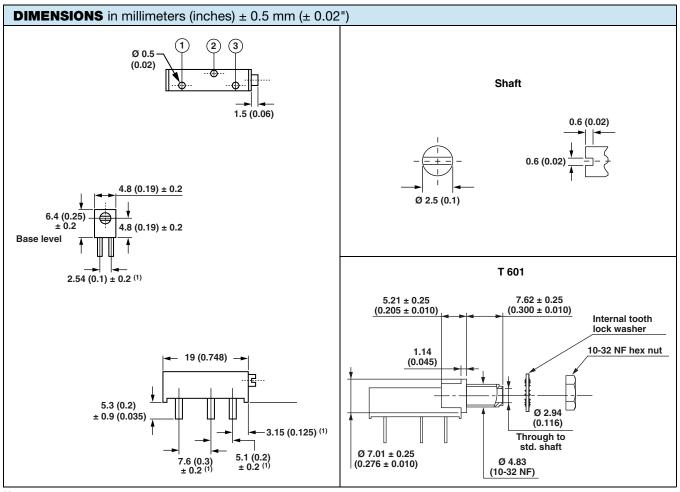
0.75 W at 70 °C





ROHS

- 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 <a href="https://www.vishay.com/doc?99912"><u>www.vishay.com/doc?99912</u></a>



Note

(1) To be measured at base level



# Vishay Spectrol

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 %		
Linear	0.75 W at +70 °C		
Power rating  Circuit diagram	0.75  N U U U U U U U U U U U U U U U U U U		
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)	1 % or 2 t2 1000 V		
Insulation resistance (500 V <sub>DC</sub> )	10 <sup>3</sup> MΩ min.		
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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		
		$\Delta R_{T}/R_{T}$ (%)	$\Delta V_{1-2}/V_{1-3}$ (%)	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 $M\Omega$
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	LINEAR LAW			TYPICAL
RESISTANCE VALUES	MAX. POWER AT 70 °C	MAX. WORKING VOLTAGE	MAX. WIPER CUR.	TCR -55 °C +125 °C
Ω	W	٧	mA	ppm/°C
10	0.75	2.74	274	
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	± 100
10K	0.75	86.6	8.7	± 100
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	ļ

### **PACKAGING**

• In box of 200 pieces code B40 (BO200)

#### On request:

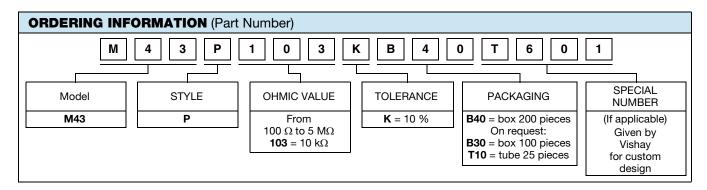
- In box of 100 pieces code B30 (BO100)
- In tube of 25 pieces code T10 (TU25)

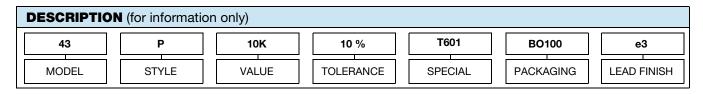
### **MARKING**

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



## Vishay Spectrol





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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Vishay

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