



3/4" Rectangular Multi-Turn Cermet Trimmer

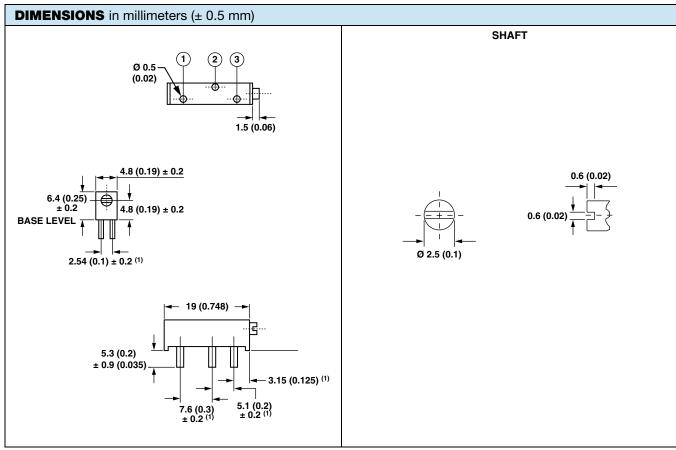


FEATURES

- 0.75 W at 70 °C
- Wide ohmic range (10 Ω to 5 M Ω)



- Multi-finger wiper for better CRV
- Tests according to CECC 41000 or IEC 60393-1
- Industrial grade
- Compliant to RoHS Directive 2002/95/EC



Note

(1) To be measured at base level

Vishay Sfernice

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ELECTRICAL SPECIF	ICATIONS				
Resistive element		Cermet			
Electrical travel		15 turns ± 1			
Resistance range		10 Ω to 5 MΩ			
Standard series E3		1 - 2.2 - 4.7 and 1 - 2 - 5			
Tolerance	Standard	± 10 %			
Tolerance	On request	± 5 %			
Linear		0.75 W at + 70 °C			
Power rating		0.75 N 0.50 0.25 0.20 40 60 70 80 100 125 140 AMBIENT TEMPERATURE IN °C			
Circuit diagram		$ \begin{array}{c} \stackrel{a}{\bigcirc} & \stackrel{c}{\bigcirc} & \stackrel{c}{\bigcirc} \\ \stackrel{(1)}{\downarrow} & \stackrel{b}{\bigcirc} & \rightarrow & cw \\ \stackrel{(2)}{\downarrow} & & & & & & & \\ \end{array} $			
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		1 % or 2 Ω			
Dielectric strength (RMS)		1000 V			
Insulation resistance (500 V	oc)	10 3 M Ω 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	e3: Pure Sn			

ENVIRONMENTAL SPECIFICATIONS				
Temperature range	- 55 °C to + 125 °C			
Climatic category	55/125/56			
Sealing	Fully sealed - IP67			



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PERFORMANCES						
TESTS	CONDITIONS	TYPICAL VALUES AND DRIFTS				
	CONDITIONS	∆R _T /R _T (%)	$\Delta R_{1-2}/R_{1-2}$ (%)			
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	\pm 3 % Dielectric strength: 1000 V_{RMS} Insulation resistance: > 20 $M\Omega$	± 1 %			
Rapid temp. change	5 cycles - 55 °C to + 125 °C	± 0.5 %	$\Delta V_{1-2}/\Delta V_{1-3} \le \pm \ 2$ %			
Shock	50 g at 11 ms 3 successive shocks in 3 directions	± (2 % + 3 Ω)	± 2 %			
Vibration	10 Hz to 55 Hz 0.75 mm or 10 g during 6 h	± 2 %	$\Delta V_{1-2}/\Delta V_{1-3} \le \pm 2 \%$			
Rotational life	200 cycles	$\begin{array}{c} \pm \mbox{ (3 \% + 3 \Omega)} \\ \mbox{Contact res. variation: < 2 \% Rn} \end{array}$	-			

STANDARD RESISTANCE ELEMENT DATA						
STANDARD RESISTANCE VALUES		TYPICAL				
	MAX. POWER AT 70 °C	MAX. WORKING VOLTAGE	MAX. WIPER CUR.	TCR - 55 °C + 125 °C		
Ω	W	V	mA	ppm/°C		
10	0.75	2.74	274			
22	0.75	4.06	185			
47	0.75	5.94	126			
100	0.75	8.66	87			
220	0.75	12.8	58			
470	0.75	18.8	40			
1K	0.75	27.4	27			
2.2K	0.75	40.6	18			
4.7K	0.75	59.4	13	± 100		
10K	0.75	86.6	8.7	± 100		
22K	0.75	128	5.8			
47K	0.75	188	4.0			
100K	0.75	274	2.7			
220K	0.75	400	1.8			
470K	0.34	400	0.85			
1M	0.16	400	0.40			
2.2M	0.07	400	0.18			
4.7M	0.03	400	0.09			

MARKING

- Vishay trademark
- Vishay part number or model and ohmic value (in $\Omega,$ $k\Omega,$ $M\Omega)$
- · Manufacturing date
- Marking of terminal 3

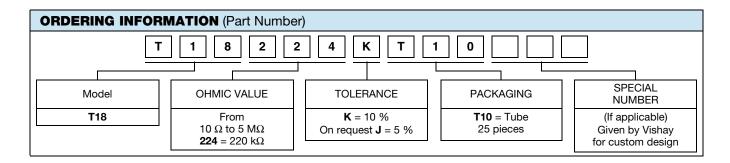
PACKAGING

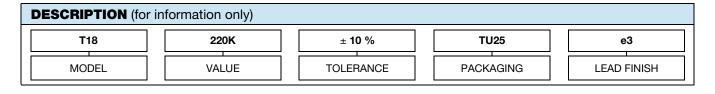
• In tube of 25 pieces code T10 (TU25)

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Vishay

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