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Vishay Sfernice T63XB102KT20

For any questions, you can email us directly: sales@integrated-circuit.com

Datasheet of T63XB102KT20 - TRIMMER 1K OHM 0.25W TH

Contact us: sales@integrated-circuit.com Website: www.integrated-circuit.com



T63

Vishay Sfernice

1/4" Multi-Turn Fully Sealed Container Cermet Trimmer





Due to their square shape and small size (6.8 mm \times 6.8 mm \times 5 mm), the multi-turn trimmers of the T63 series are ideally suited for PCB use, enabling high density board mounting with reduced space requirement between cards.

Six versions are available differing by the top or side position of the adjustment screw and by PC pins configuration.

The use of cermet for the resistive track ensures an excellent stability of nominal specifications throughout life.

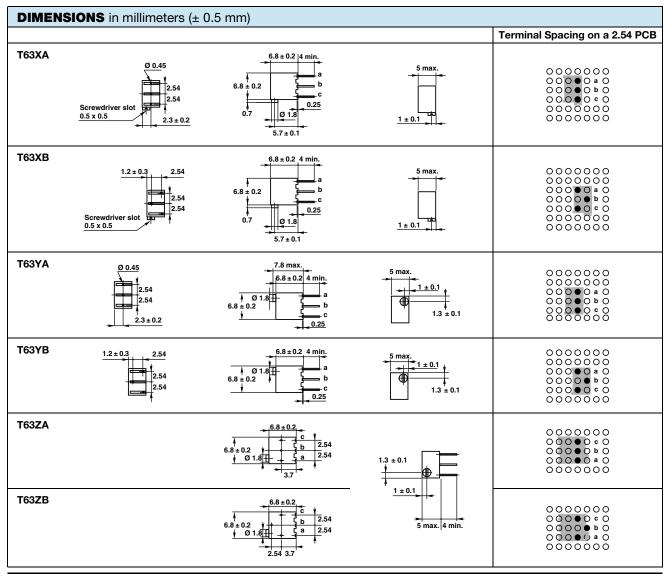
FEATURES

• 0.25 W at 70 °C



COMPLIANT

- Industrial grade
- Tests according to CECC 41000 or IEC 60393-1
- Multi-turn operation
- Low contact resistance variation 1 % typical
- Material categorization: for definitions of compliance please see <u>www.vishay.com/doc?99912</u>



Revision: 24-Sep-15 1 Document Number: 51024



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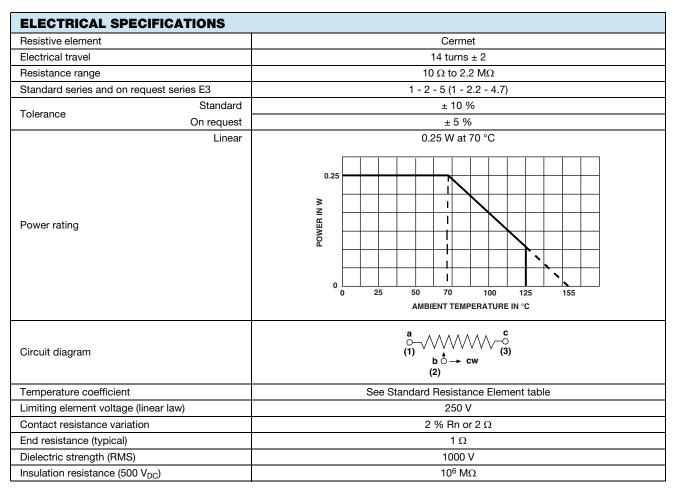
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MECHANICAL SPECIFICATIONS				
Mechanical travel	15 turns ± 5			
Operating torque (max. Ncm)	1.5			
End stop torque	Clutch action			
Unit weight (max. g)	0.5			
Wiper (actual travel)	Positioned at approx. 50 %			
Terminals	Pure Sn (code e3)			

ENVIRONMENTAL SPECIFICATIONS		
Temperature range	-55 °C to +155 °C	
Climatic category	55/125/56	
Sealing	Fully sealed - IP67	

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PERFORMANCES					
TECTO	CONDITIONS	TYPICAL VALUES AND DRIFTS			
TESTS	CONDITIONS	$\Delta R_{T}/R_{T}$	$\Delta R_{1-2}/R_{1-2}$	OTHER	
Electrical endurance	1000 h at rated power 90'/30' - ambient temperature 70 °C	± 1 %	± 2 %	Contact res. variation: < 1 % Rn	
Climatic sequence	Phase A dry heat 125 °C - 30 % Pr Phase B damp heat Phase C cold -55 °C Phase D damp heat 5 cycles	± 0.5 %	± 1 %	-	
Damp heat, steady state	56 days 40 °C, 93 % RH	± 0.5 %	± 1 %	Dielectric strength: 1000 V_{RMS} Insulation resistance: > $10^4 \ M\Omega$	
Rapid temperature change	5 cycles -55 °C to +125 °C	± 0.5 %	-	$\Delta V_{1-2}/V_{1-3} \le \pm 1 \%$	
Shock	50 g at 11 ms 3 successive shocks in 3 directions	± 0.1 %	± 0.2 %	-	
Vibration	10 Hz to 55 Hz 0.75 mm or 10 <i>g</i> during 6 h	± 0.1 %	-	$\Delta V_{1-2}/V_{1-3} \le \pm \ 0.2 \%$	
Mechanical endurance	200 cycles	± (2 % + 3 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 CURRENT	TCR -55 °C +125 °C	
Ω	W	V	mA	ppm/°C	
10	0.25	1.58	158		
20	0.25	2.23	112		
50	0.25	3.5	77		
100	0.25	35	50		
200	0.25	7.07	35		
500	0.25	11.2	22		
1K	0.25	15.8	15.8		
2K	0.25	22.3	11.2		
5K	0.25	35.3	7.1		
10K	0.25	50	5	± 100	
20K	0.25	70.7	3.5		
25K	0.25	79	3.2		
50K	0.25	112	2.2		
100K	0.25	158	1.6		
200K	0.25	224	1.1		
250K	0.25	250	1.1		
500K	0.13	250	0.5		
1M	0.06	250	0.25		
2.2M	0.03	250	0.125		

MARKING

- Vishay trademark
- Model
- Style
- Ohmic value (in Ω , $k\Omega$, $M\Omega$)
- Tolerance (in %) only if non standard
- Manufacturing date
- Marking of terminal 3

PACKAGING

• In tube of 50 pieces code T20 (TU50)



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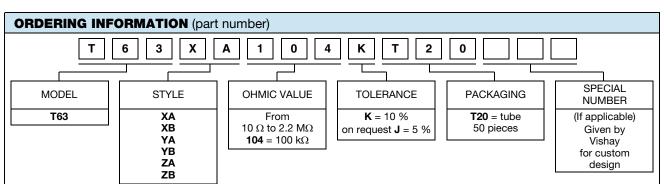
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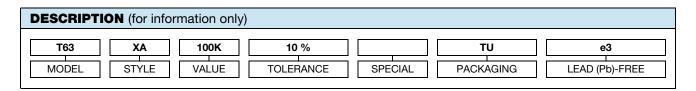


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RELATED DOCUMENTS				
APPLICATION NOTES				
Potentiometers and Trimmers	www.vishay.com/doc?51001			
Guidelines for Vishay Sfernice Resistive and Inductive Components	www.vishay.com/doc?52029			



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Revision: 13-Jun-16 1 Document Number: 91000