

1/4" Square Single-Turn Cermet Sealed Trimmer

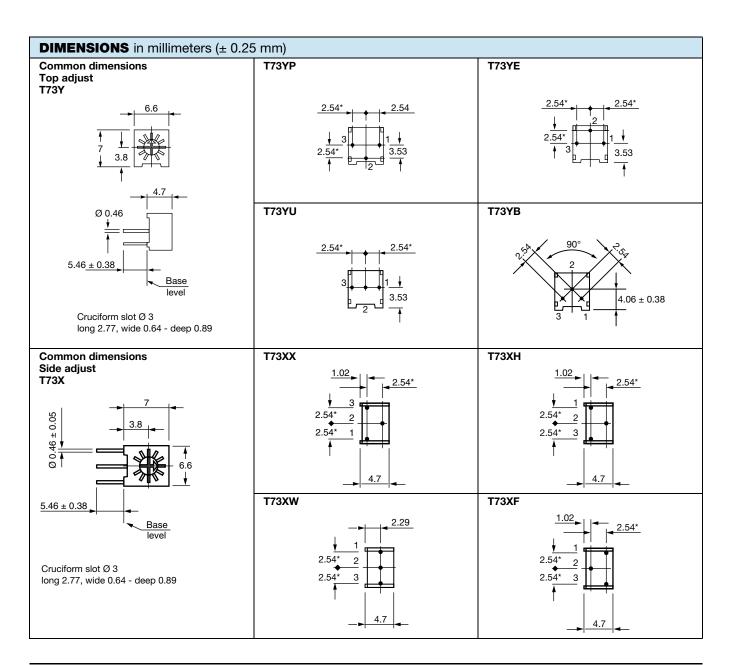


FEATURES

- · Industrial grade
- · Fully sealed
- Miniature package



- RoHS
- Rotor designed for automatic machine adjust interface
- Withstands harsh environments and immersion cleaning process
- Tests according to CECC 41000 or IEC 60393-1
- Compliant to RoHS Directive 2002/95/EC





Vishay Sfernice

Resistive element	Cermet			
Electrical travel	240° nominal			
Resistance range	10 Ω to 2 M Ω			
Standard series	1 - 2 - 5			
Tolerance standard	10 %			
linear	0.5 W at + 70 °C			
Power rating	0.50 N W W W W W W W W W W W W W W W W W W			
Circuit diagram	$ \begin{array}{c} \stackrel{a}{\circ} \longrightarrow & \stackrel{c}{\circ} \\ \stackrel{(1)}{\circ} \longrightarrow & \stackrel{c}{\circ} \\ \stackrel{(2)}{\circ} \longrightarrow & \stackrel{c}{\circ} \\ \end{array} $			
Temperature coefficient	± 100 ppm/°C			
Limiting element voltage	300 V			
Contact resistance variation	1 % Rn or 3 Ω max. whichever is greater			
Absolute minimum resistance	1 % Rn or 2 Ω max. whichever is greater			
Adjustability	± 0.05 % voltage ± 0.15 % resistance			
Resolution	infinite			
Insulation resistance (500 V _{DC})	10 ³ MΩ minimum			
Dielectric strength	900 V _{AC} sea level 350 V _{AC} 80 000 feet			

MECHANICAL SPECIFICATIONS			
Mechanical travel	270°		
Operating torque (max. Ncm)	2.1		
End stop torque (max. Ncm)	4.9		
Unit weight (max. g)	0.6		
Terminals	Pure Sn (code e3)		

ENVIRONMENTAL SPECIFICATIONS		
Temperature range	- 55 °C to + 125 °C	
Climatic category	55/100/56	
Sealing	Fully sealed - IP67	



Vishay Sfernice

PERFORMANCES				
TESTS	CONDITIONS	TYPICAL VALUES AND DRIFTS		
Load life	1000 h - 0.5 W at + 70 °C	$\Delta R_{T}/R_{T}$ (%)	CRV < 3 Ω or 3 %	
	1000 11 - 0.5 W at + 70 C	3 %	whichever is greater	
Shock	100 g	± 1 %	ΔV/V ≤ ± 1 %	
Vibration	30 g	± 1 %	ΔV/V ≤ ± 1 %	
Humidity	MIL-STD202 method 103 - 96 h	± 2 %	i.R. 10 MΩ	
Rotational life	200 cycles	± 4 %	CRV < 3 Ω or 3 % whichever is greater	

STANDARD RESISTANCE ELEMENT DATA					
STANDARD RESISTANCE VALUES		LINEAR LAW			
	MAX. POWER AT 70 °C	MAX. WORKING VOLTAGE	MAX. WIPER CURRENT	TCR - 55 °C + 125 °C	
Ω	W	V	mA	ppm/°C	
10	0.50	2.2	224		
20	0.50	3.2	160		
50	0.50	5.0	100		
100	0.50	7.1	70		
200	0.50	10.0	50		
500	0.50	15.8	32		
1K	0.50	22.4	22		
2K	0.50	31.6	16		
5K	0.50	50	10	± 100	
10K	0.50	70.7	7.1		
20K	0.50	100	5.0		
50K	0.50	158.1	3.2		
100K	0.50	223.6	2.2		
200K	0.45	300	1.5		
500K	0.18	300	0.60		
1M	0.09	300	0.30		
2M	0.05	300	0.15		

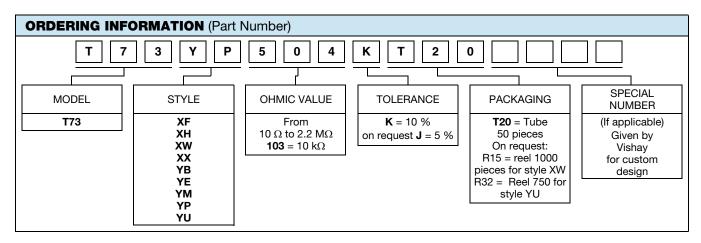
MARKING

- Vishay trademark
- Resistance code
- Terminal numbers
- Date code
- Model

PACKAGING

- In tube of 50 pieces code T20 (TU50)
- On request: Tape and reel for style YU, code R32 (TR750) and style XW code R15 (TR1000)

Vishay Sfernice



DESCRIPTION (for information only)					
T73	YP	500K	10 %	TU	e3
MODEL	STYLE	VALUE	TOLERANCE	PACKAGING	LEAD FINISH





Vishay

Disclaimer

ALL PRODUCT, PRODUCT SPECIFICATIONS AND DATA ARE SUBJECT TO CHANGE WITHOUT NOTICE TO IMPROVE RELIABILITY, FUNCTION OR DESIGN OR OTHERWISE.

Vishay Intertechnology, Inc., its affiliates, agents, and employees, and all persons acting on its or their behalf (collectively, "Vishay"), disclaim any and all liability for any errors, inaccuracies or incompleteness contained in any datasheet or in any other disclosure relating to any product.

Vishay makes no warranty, representation or guarantee regarding the suitability of the products for any particular purpose or the continuing production of any product. To the maximum extent permitted by applicable law, Vishay disclaims (i) any and all liability arising out of the application or use of any product, (ii) any and all liability, including without limitation special, consequential or incidental damages, and (iii) any and all implied warranties, including warranties of fitness for particular purpose, non-infringement and merchantability.

Statements regarding the suitability of products for certain types of applications are based on Vishay's knowledge of typical requirements that are often placed on Vishay products in generic applications. Such statements are not binding statements about the suitability of products for a particular application. It is the customer's responsibility to validate that a particular product with the properties described in the product specification is suitable for use in a particular application. Parameters provided in datasheets and/or specifications may vary in different applications and performance may vary over time. All operating parameters, including typical parameters, must be validated for each customer application by the customer's technical experts. Product specifications do not expand or otherwise modify Vishay's terms and conditions of purchase, including but not limited to the warranty expressed therein.

Except as expressly indicated in writing, Vishay products are not designed for use in medical, life-saving, or life-sustaining applications or for any other application in which the failure of the Vishay product could result in personal injury or death. Customers using or selling Vishay products not expressly indicated for use in such applications do so at their own risk and agree to fully indemnify and hold Vishay and its distributors harmless from and against any and all claims, liabilities, expenses and damages arising or resulting in connection with such use or sale, including attorneys fees, even if such claim alleges that Vishay or its distributor was negligent regarding the design or manufacture of the part. Please contact authorized Vishay personnel to obtain written terms and conditions regarding products designed for such applications.

No license, express or implied, by estoppel or otherwise, to any intellectual property rights is granted by this document or by any conduct of Vishay. Product names and markings noted herein may be trademarks of their respective owners.

Revision: 11-Mar-11