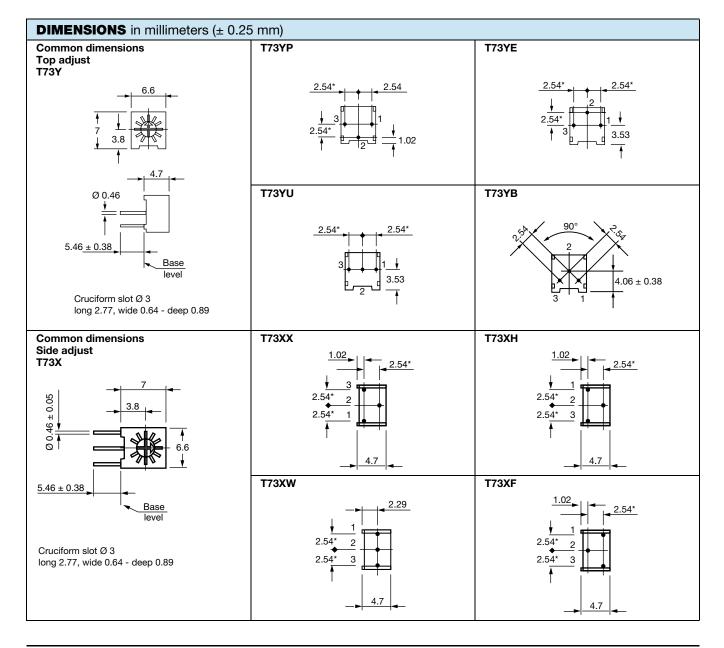
**Vishay Sfernice** 

### 1/4" Square Single-Turn Cermet Sealed Trimmer



#### **FEATURES**

- Industrial grade
- · Fully sealed
- Miniature package
- Rotor designed for automatic machine adjust interface
- · Withstands harsh environments and immersion cleaning process
- Tests according to CECC 41000 or IEC 60393-1
- · Material categorization: for definitions of compliance please see www.vishay.com/doc?99912



Revision: 23-Sep-15

1 For technical questions, contact: sferpottrimmers@vishay.com Document Number: 51016

RoHS

COMPLIANT

T73



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Vishay Sfernice

### **T73**

Resistive element	Cermet		
Electrical travel	240° nominal		
Resistance range	10 $\Omega$ to 2 M $\Omega$		
Standard series	1 - 2 - 5		
olerance standard	10 %		
linear	0.5 W at +70 °C		
Power rating	0.50 0.25 0.25 0.25 0.25 0.25 0.25 0.25		
Circuit diagram	$ \overset{a}{\underset{(1)}{\overset{b}{\overset{\circ}{\overset{\circ}{\overset{\circ}{\overset{\circ}{\overset{\circ}{\overset{\circ}{\circ$		
emperature coefficient	± 100 ppm/°C		
imiting element voltage	300 V		
Contact resistance variation	1 % Rn or 3 $\Omega$ max. whichever is greater		
bsolute minimum resistance	1 % Rn or 2 $\Omega$ max. whichever is greater		
djustability	± 0.05 % voltage ± 0.15 % resistance		
Resolution	infinite		
nsulation resistance (500 V <sub>DC</sub> )	$10^3 M\Omega$ minimum		
	900 V <sub>AC</sub> sea level 350 V <sub>AC</sub> 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	

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

Note

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

STANDARD RESISTANCE VALUES		LINEAR LAW			
	MAX. POWER AT 70 °C	MAX. WORKING VOLTAGE	MAX. WIPER CURRENT	TCR -55 ℃ +125 ℃	
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)

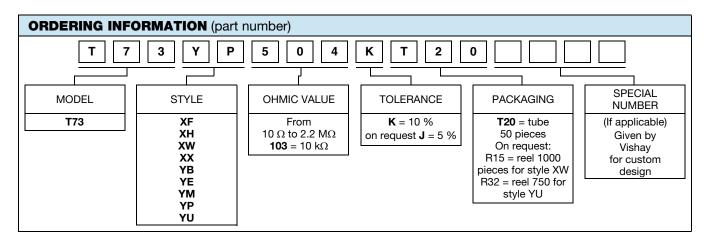
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### Vishay Sfernice

T73



<b>DESCRIPTION</b> (1	for information onl	y)			
T73	YP	500K	10 %	ти	e3
MODEL	STYLE	VALUE	TOLERANCE	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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# **Mouser Electronics**

Authorized Distributor

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