**Vishay Sfernice** 

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



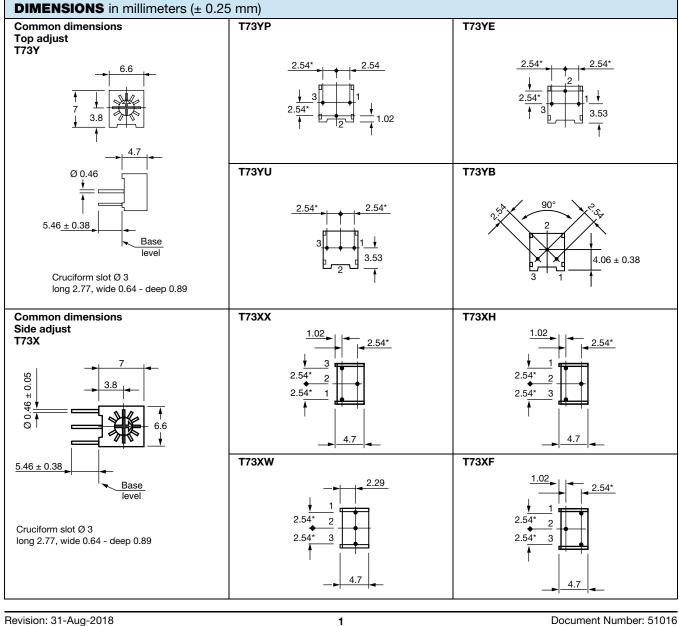
#### **DESIGN SUPPORT TOOLS**





#### **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



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For technical questions, contact: sferpottrimmers@vishay.com

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COMPLIANT



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Vishay Sfernice

# **T73**

Resistive element	Cermet		
Electrical travel	240° nominal		
Resistance range	10 Ω to 2 MΩ		
Standard series	1 - 2 - 5		
Tolerance standard	10 %		
linear	0.5 W at +70 °C		
Power rating	0.50 0.25 0.25 0.20 0.20 0.20 0.20 0.20		
Circuit diagram	$ \overset{a}{\underset{(1)}{\overset{b}{\overset{\circ}{\overset{\circ}{\overset{\circ}{\overset{\circ}{\overset{\circ}{\overset{\circ}{\circ$		
Temperature coefficient	± 100 ppm/°C		
Limiting element voltage	300 V		
Contact resistance variation	1 % Rn or 3 $\Omega$ max. whichever is greater		
Absolute minimum resistance	1 % Rn or 2 $\Omega$ max. whichever is greater		
Adjustability	± 0.05 % voltage ± 0.15 % resistance		
Resolution	infinite		
Insulation resistance (500 V <sub>DC</sub> )	$10^3 M\Omega$ minimum		
Dielectric strength	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	

2



PERFORMANCES				
TESTS	CONDITIONS	TYPICAL VALUES	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 - 0.3 W at +70 C	3 %	whichever is greater	
Vibration	100 g	±1%	$\Delta$ V/V $\leq$ ± 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 $\Omega$ or 3 % whichever is greater	

Note

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

STANDARD RESISTANCE VALUES		LINEAR LAW		TYPICAL TCR -55 °C +125 °C
	MAX. POWER AT 70 °C	MAX. WORKING VOLTAGE	MAX. WIPER CURRENT	
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	1

#### MARKING

• Vishay trademark

- Resistance code
- Terminal numbers
- Date code
- Model

#### PACKAGING

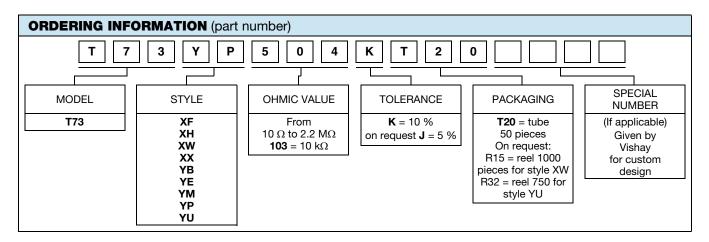
- In tube of 50 pieces code T20 (TU50)
- On request: tape and reel for style YU, code R32 (TR750) and style XW code R15 (TR1000)



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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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