

1/4" Square Single-Turn Cermet Sealed Trimmer

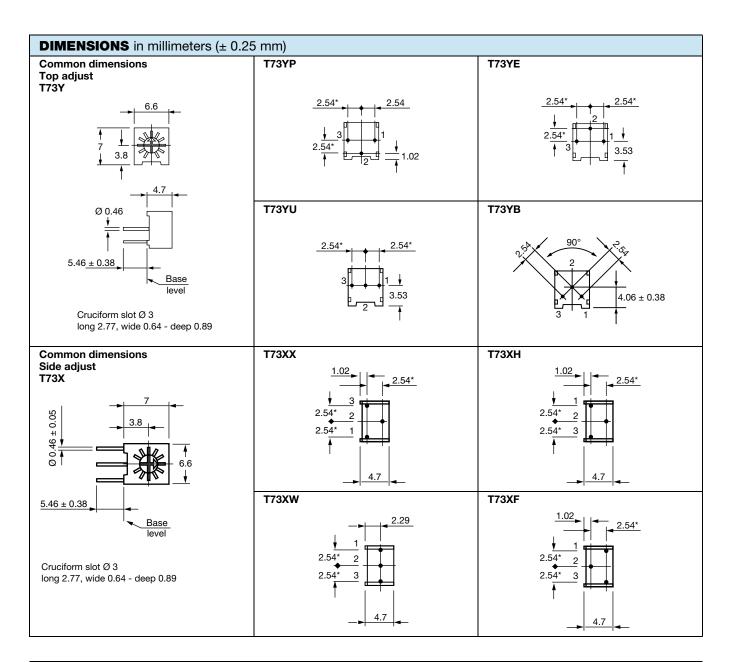


FEATURES

- · 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
- Material categorization: For definitions of compliance please see <u>www.vishay.com/doc?99912</u>





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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 40 60 70 100 125 140 AMBIENT TEMPERATURE IN °C			
Circuit diagram	a OO (1) b O → cw (2)			
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})	$10^3~\mathrm{M}\Omega$ 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		



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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 %	$\Delta V/V \le \pm 1 \%$		
Vibration	30 g	± 1 %	$\Delta V/V \le \pm 1 \%$		
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		

ANDARD RESISTANCE ELEMENT DATA LINEAR LAW				
STANDARD RESISTANCE VALUES	MAX. POWER AT 70 °C	MAX. WORKING VOLTAGE	MAX. WIPER CURRENT	TYPICAL 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

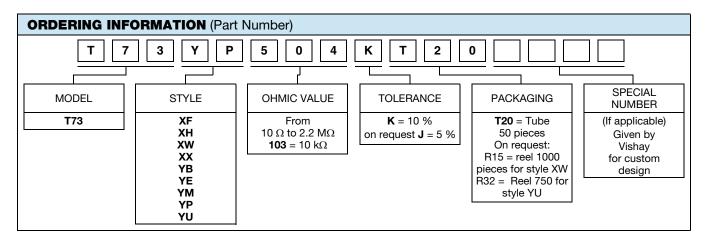
- Vishay trademark
- Resistance code
- Terminal numbers
- Date code
- Model

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)



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



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