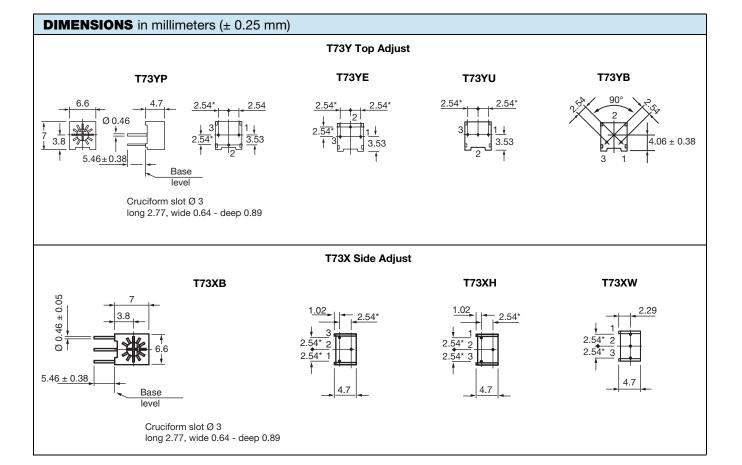
Revision: 09-Aug-11

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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
- Compliant to RoHS Directive 2002/95/EC





SHA

Vishay Sfernice

COMPLIANT

T73





Document Number: 51016



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VISI

ELECTRICAL SPECIFICATIONS				
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 0.25 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$			
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	



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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 H - 0.5 W at + 70°C	3 %	whichever is greater
Shock	100 g	±1%	$\Delta V/V \le \pm 1 \%$
Vibration	30 g	±1%	Δ V/V \leq ± 1 %
Humidity	MIL-STD202 method 103 - 96 h	±2%	i.R. 10 MΩ
Rotational life	200 cycles	±4 %	$CRV < 3 \Omega \text{ or } 3 \%$ whichever is greater

STANDARD RESISTANCE ELEMENT DATA				
STANDARD RESISTANCE VALUES		TYPICAL		
	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	
2К	0.50	31.6	16	
5K	0.50	50	10	± 100
10K	0.50	70.7	7.1	
20К	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

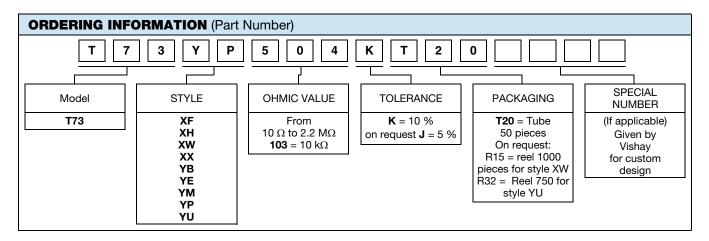
- In tube of 50 pieces code T20 (TU50)
- On request: Tape and reel for style YU, code R32 (TR750) and style XW code R15 (TR1000)



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T73



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



Vishay

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