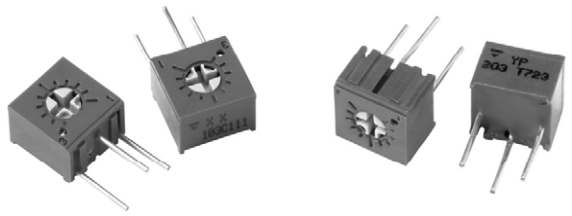
1/4" Square Single-Turn Cermet Sealed Trimmer



FEATURES

- 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
- Construction: fully sealed
- Industrial grade
- Material categorization: for definitions of compliance please see www.vishay.com/doc?99912

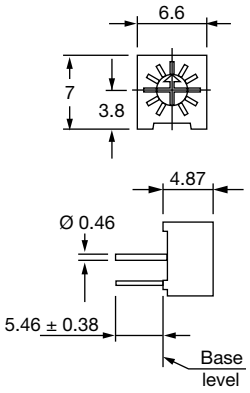
RoHS COMPLIANT

LINKS TO ADDITIONAL RESOURCES

3D Models

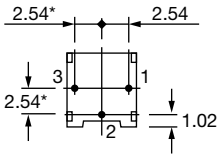
DIMENSIONS in millimeters (± 0.25 mm)

Common dimensions
Top adjust
T73Y



Cruciform slot Ø 3
long 2.77, wide 0.64 - deep 0.89

T73YP



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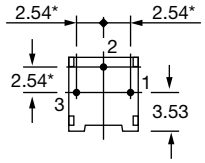
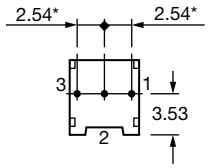
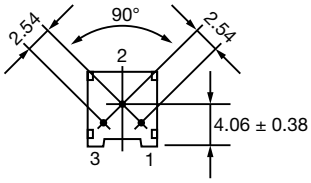


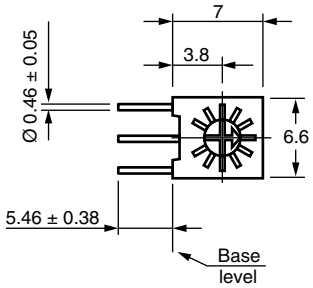
T73YU



T73YB

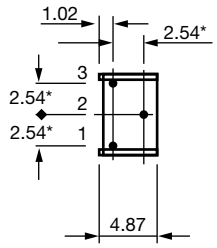


Common dimensions
Side adjust
T73X

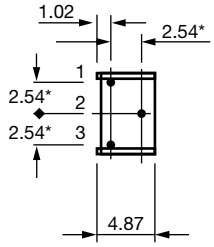


Cruciform slot Ø 3
long 2.77, wide 0.64 - deep 0.89

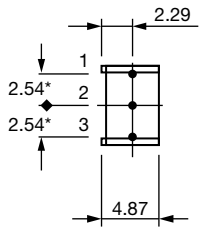
T73XX



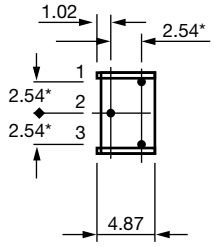
T73XH



T73XW



T73XF



For technical questions, contact: sferpottrimmers@vishay.com
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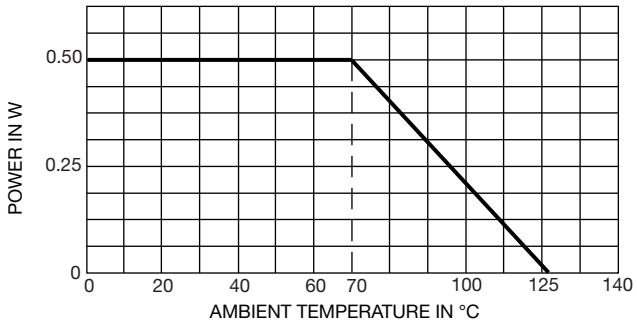
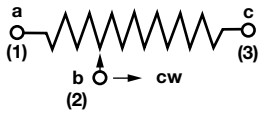
ELECTRICAL SPECIFICATIONS	
Resistive element	Cermet
Electrical travel	240° nominal
Resistance range	10 Ω to 2 MΩ
Standard series	1 - 2 - 5
Tolerance standard	10 %
Power rating Linear	0.5 W at +70 °C 
Circuit diagram	
Temperature coefficient	± 100 ppm/°C
Limiting element voltage	300 V
Contact resistance 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 % whichever is greater
		3 %	
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

Note

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

STANDARD RESISTANCE ELEMENT DATA

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	

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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ORDERING INFORMATION (part number)

T	7	3	Y	P	5	0	4	K	T	2	0				

MODEL	STYLE	OHMIC VALUE	TOLERANCE	PACKAGING	SPECIAL NUMBER
T73	**XF** **XH** **XW** **XX** **YB** **YE** **YM** **YP** **YU**	From 10 Ω to 2.2 MΩ **103** = 10 kΩ	**K** = 10 % on request **J** = 5 %	**T20** = tube 50 pieces On request: R15 = reel 1000 pieces for style XW R32 = reel 750 for style YU	(If applicable) Given by Vishay for custom design

DESCRIPTION (for information only)

T73	YP	500K	10 %	TU	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
Selector guide	www.vishay.com/doc?49286

ACCESSORIES

Screwdrivers (to order separately)	www.vishay.com/doc?57015

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