

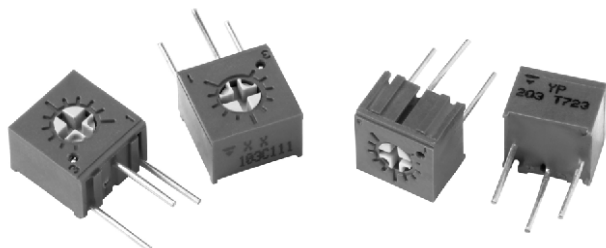
1/4" Square Single-Turn Cermet Sealed Trimmers

FEATURES

- Industrial grade
- Fully sealed
- Miniature package
- Rotor designed for automatic machine adjust interface
- Withstands harsh environments and immersion cleaning process



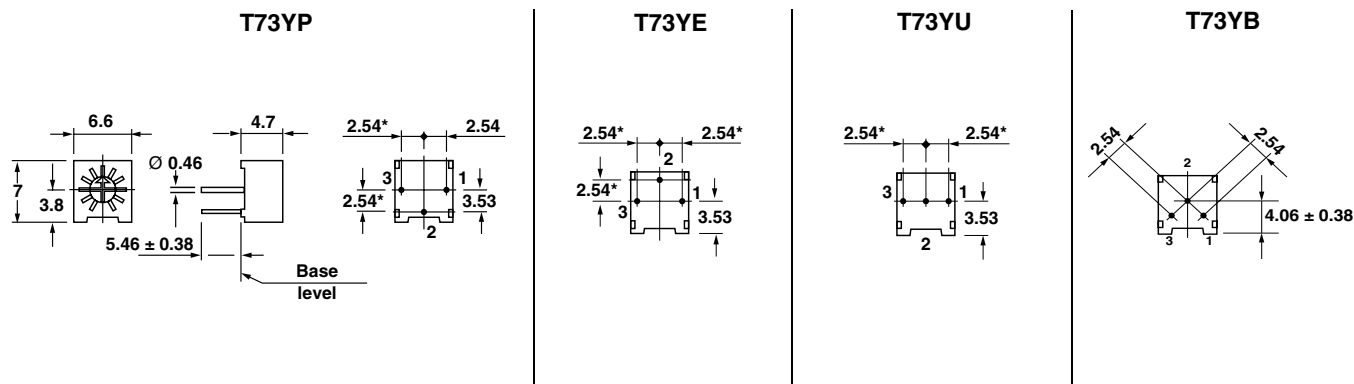
RoHS
COMPLIANT



DIMENSIONS in millimeters

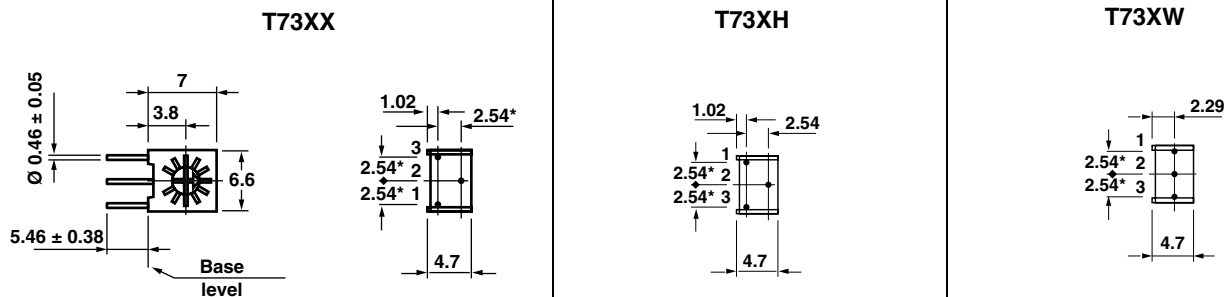
T73Y

Top adjust



T73X

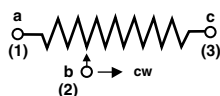
Side adjust



Tolerances unless otherwise specified ± 0.25 mm

Cruciform slot $\varnothing 3$
long 2.77, wide 0.64 - deep 0.89

CIRCUIT DIAGRAM



1/4" Square Single-Turn
Cermet Sealed Trimmers

Vishay Sfernice

ELECTRICAL SPECIFICATIONS

Resistive Element	Cermet
Electrical Travel	240° nominal
Resistance Range	10 Ω to 2 M Ω
Standard Series	1 - 2 - 5
Tolerance Standard	$\pm 10\%$
Power Rating	Linear Logarithmic
	0.5 W at 70 °C not applicable
Temperature Coefficient	± 100 ppm/°C
Limiting Element Voltage	300 V
Contact Resistance Variation	1 % or 3 Ω max. whichever is greater
Absolute Minimum Resistance	1 % or 2 Ω max. whichever is greater
Adjustability	$\pm 0.05\%$ voltage $\pm 0.15\%$ resistance
Resolution	infinite
Insulation Resistance (500 V DC)	10 ³ M Ω minimum
Dielectric Strength	900 Vac sea level 350 Vac 80 000 feet

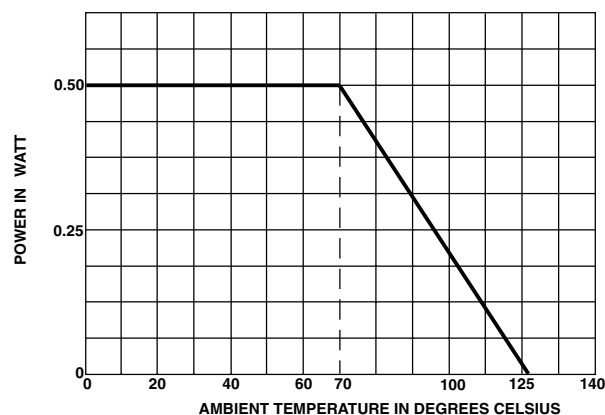
MECHANICAL SPECIFICATIONS

Mechanical Travel	270°
Operating Torque (max. Ncm)	2.1
End Stop Torque (max. Ncm)	4.9
Unit Weight (max. g)	0.6

ENVIRONMENTAL SPECIFICATIONS

Temperature Range	- 55 °C to + 125 °C
Climatic Category	55/100/56
Seal Test	85 °C Fluorinert**
Flammability	UL 94-VO

** Fluorinert is a registered trademark of 3M Co.

POWER RATING CHART**PERFORMANCE**

TESTS	CONDITIONS	TYPICAL VALUES AND DRIFTS	
Load Life	1000 hours - 0.5 W at + 70 °C	$\frac{\Delta R}{R} \leq 3\%$	CRV < 3 Ω or 3 % whichever is greater
Shock	100 g	$\frac{\Delta R}{R} < \pm 1\%$	$\frac{\Delta V}{V} < \pm 1\%$
Vibration	30 g	$\frac{\Delta R}{R} < \pm 1\%$	$\frac{\Delta V}{V} \leq \pm 1\%$
Humidity	Mil-STD202 method 103 - 96 hours	$\frac{\Delta R}{R} < \pm 2\%$	i.R. 10 M Ω
Rotational Life	200 cycles	$\frac{\Delta R}{R} < \pm 4\%$	CRV < 3 Ω or 3 % whichever is greater

STANDARD RESISTANCE ELEMENT DATA

STANDARD RESISTANCE VALUES	LINEAR LAW			TCR - 55 °C + 125 °C
	MAX. POWER AT 70 °C	MAX. WORKING VOLTAGE	MAX. WIPER CUR.	
Ω	W	V	mA	ppm/°C
10	0.5 ↓	2.2	224	± 100
20		3.2	160	
50		5	100	
100		7.1	70	
200		10	50	
500		15.8	32	
1K		22.4	22	
2K		31.6	16	
5K		50	10	
10K		70.7	7.1	
20K		100	5	
50K	0.50 ↓	158.1	3.2	± 100
100K		223.6	2.2	
200K		300	1.5	
500K		300	0.60	
1M		300	0.30	
2M		300	0.15	

MARKING

Printed: VISHAY trademark, resistance code, terminal numbers, date code, manufacturer's model number and style

PACKAGING

- In tube by 50 pieces, code TU50
- Tape and reel for model YU, code TR750 and XW, code TR100

ORDERING INFORMATION

T73 SERIES	YP STYLE		500 k Ω OHMIC VALUE	$\pm 10\%$ TOLERANCE	TU50 PACKAGING	e3 LEAD FINISH
	XX	YP			TU50	e3: pure Sn
	XH	YE			On request: TR750	
	XW	YU			TR1000	
		YB				

SAP PART NUMBERING GUIDELINES

T	7	3	Y	P	5	0	4	K	T	2	0			
MODEL			STYLE		OHMIC VALUE			TOL	PACKAGING CODE			SPECIAL (IF APPLICABLE)		

See the end of this data book for conversion tables



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