

1/4" Square Single-Turn Cermet Sealed Trimmer



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





Vishay Sfernice



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 0.50 0.25 0.25 0.20 0.20 0.20 0.20			
Circuit diagram	$ \begin{array}{c} a \\ c \\ (1) \\ b \\ c \\ (2) \end{array} $			
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		



T73

PERFORMANCES				
TESTS	CONDITIONS TYPIC		CAL VALUES AND DRIFTS	
LOAD LIFE	1000 h 0.5 W at 1.70 °C	∆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%	$\Delta V/V \le \pm 1 \%$	
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	

STANDARD RESISTANCE ELEMENT DATA					
STANDARD		TYPICAL			
RESISTANCE VALUES	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		
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 or YE code R15 (TR1000)

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ORDERING INFORMATION (Part Number)					
T 7 3 Y P 5 0 4 K T 2 0					
Model T73	STYLE XF XH XW XX YB	OHMIC VALUE From 10 Ω to 2.2 MΩ 103 = 10 kΩ	TOLERANCE K = 10 % on request J = 5 %	PACKAGING T20 = Tube 50 pieces On request: R15 = reel 1000 pieces for style XW	SPECIAL NUMBER (If applicable) Given by Vishay for custom design
	YE YM YP YU			or YE R32 = Reel 750 for style YU	

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



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