COMPLIANT





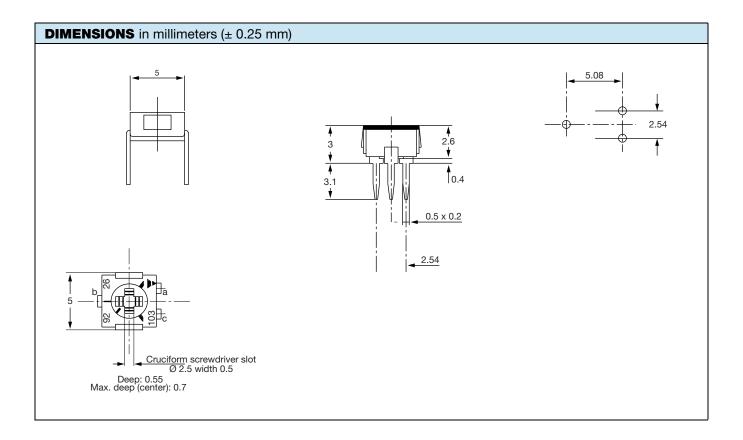
5 mm Through Hole Trimmer Single-Turn Cermet



The T53 trimming potentiometer volumetric efficiency (5 mm x 5 mm x 2.7 mm) with high performance and stability. The T53 design is suitable for both manual or automatic operation.

FEATURES

- Fully sealed
- 0.25 W at 70 °C
- Wide ohmic range (10 Ω to 1 M Ω)
- \bullet Low contact resistance variation (2 % or 3 $\Omega)$
- Small size for optimum packaging density
- Suitable for both manual or automatic operation
- For SMD version see TS53Y series
- Tests according to CECC 41000 or IEC 60393-1
- Compliant to RoHS Directive 2002/95/EC



Vishay Sfernice

5 mm Through Hole Trimmer Single-Turn Cermet



Document Number: 51014

Revision: 10-Nov-10

ELECTRICAL SPECIFICATIONS				
Resistive element	Cermet			
Electrical travel	220° ± 15°			
Resistance range	10 Ω to 1 MΩ			
Standard series	1 - 2 - 5			
Tolerance Standard	± 20 %			
On request	± 10 %			
linear	0.25 W at + 70 °C			
Power rating	0.25 0.20 0.15 0.10 0.05 0 20 40 60 70 100 120 140 155 AMBIENT TEMPERATURE IN °C			
Circuit diagram	a O————————————————————————————————————			
Temperature coefficient	See Standard Resistance Element Data table			
Limiting element voltage (linear law)	200 V			
Contact resistance variation	2 % or 3 Ω			
End resistance (typical)	0.1 % or 3 Ω			
Dielectric strength (RMS)	1000 V			
Insulation resistance	$10^6\mathrm{M}\Omega$			
Specification	In accordance with CECC 41100			

MECHANICAL SPECIFICATIONS				
Mechanical travel	270 ° ± 10°			
Operating torque (max. Ncm)	1.5			
End stop torque (max. Ncm)	3.5			
Unit weight (max. g)	0.15			
Terminals	Pure Sn (code e3)			

ENVIRONMENTAL SPECIFICATIONS				
Temperature range	- 55 °C to + 155 °C			
Climatic category	55/125/56			
Sealing	Enables cleaning - IP67			



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PERFORMANCES						
TESTS	CONDITIONS	TYPICAL VALUES AND DRIFTS				
	CONDITIONS	∆R _T /R _T (%)	$\Delta R_{1-2}/R_{1-2}$ (%)			
Load life	1000 h at rated power 90'/30' - ambient temp. + 70 °C	\pm 2 % Contact res. variation: Δ R < 1 % Rn	3 %			
Moisture resistance	MIL-STD 202 method 106 10 cycles of 24 h constituted with damp heat - cold - vibrations	\pm 2 % Dielectric strength: 1000 V_{RMS} Insulation resistance. $>$ 10 4 $M\Omega$	± 3 %			
Long term damp heat	Temperature 40 °C - RH 93 % 56 days	$\pm~2~\%$ Dielectric strength: 1000 V_{RMS} Insulation resistance: $>~10^4~M\Omega$	± 3 %			
Thermal shock	- 55 °C to + 125 °C - 5 cycles	± 1 %	$\Delta V_{1-2}/\Delta V_{1-3} \le \pm 2$ %			
Rotational life (electrical and mechanical)	100 cycles - rated power	± (3 % + 5 Ω)				
Shock	MIL-STD 202 method 213/1 100 g - 6 ms 3 successive shocks in 3 directions	± 1 %	$\Delta V_{12}/\Delta V_{13} \leq \pm~1~\%$			
Vibration	MIL-STD 202 method 204/D 20 g - 12 h	± 1 %	$\Delta V_{1-2}/\Delta V_{1-3} \le \pm 1 \%$			

STANDARD RESISTANCE ELEMENT DATA						
STANDARD		LINEAR LAW				
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	0.25	1.58	158			
20	0.25	2.24	112			
50	0.25	3.54	71			
100	0.25	5.00	50			
200	0.25	7.07	35			
500	0.25	11.2	22	± 100		
1K	0.25	15.8	16			
2K	0.25	22.4	11			
5K	0.25	35.4	7			
10K	0.25	50.0	5			
20K	0.25	70.7	3.5			
50K	0.25	112	2.2			
100K	0.25	158	1.6			
200K	0.20	200	1.0			
500K	0.08	200	0.4			
1M	0.04	200	0.2			

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MARKING

- · Vishay trademark
- Ohmic value (in Ω, kΩ, MΩ) is indicated by a three figure code, the first two are significant figures, the third one is a multiplier.

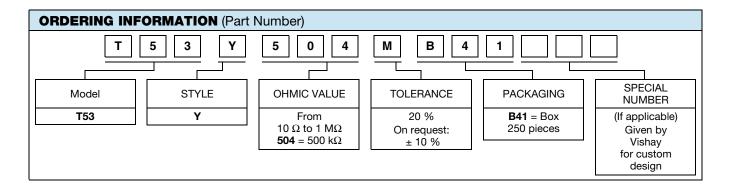
Example: $100 = 10 \Omega$ $101 = 100 \Omega$

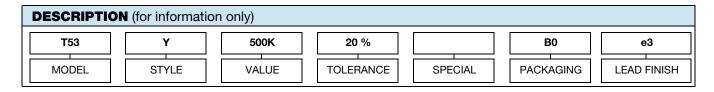
> 102 = 1000 Ω503 = 50 000 Ω

• Manufacturing date is indicated by four digits, the first two for the year, the last for the week number.

PACKAGING

• In box of 250 pieces code B41 (B0250)







Legal Disclaimer Notice

Vishay

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Please note that some Vishay documentation may still make reference to RoHS Directive 2002/95/EC. We confirm that all the products identified as being compliant to Directive 2002/95/EC conform to Directive 2011/65/EU.

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Revision: 02-Oct-12 Document Number: 91000



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С нами вы становитесь еще успешнее!

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