

1/4" Multi-Turn Fully Sealed Container Cermet Trimmer


FEATURES

- 0.25 W at 70 °C
- Industrial grade
- Tests according to CECC 41000 or IEC 60393-1
- Multi-turn operation
- Low contact resistance variation 1 % typical
- Compliant to RoHS directive 2002/95/EC



Due to their square shape and small size (6.8 mm x 6.8 mm x 5 mm), the multi-turn trimmers of the T63 series are ideally suited for PCB use, enabling high density board mounting with reduced space requirement between cards.

Six versions are available differing by the top or side position of the adjustment screw and by PC pins configuration.

The use of cermet for the resistive track ensures an excellent stability of nominal specifications throughout life.

DIMENSIONS in millimeters (± 0.5 mm)			
T63XA 			Terminal Spacing on a 2.54 PCB
T63XB 			
T63YA 			
T63YB 			
T63ZA 			
T63ZB 			

ELECTRICAL SPECIFICATIONS																	
Resistive element	Cermet																
Electrical travel	14 turns \pm 2																
Resistance range	10 Ω to 2.2 M Ω																
Standard series and on request series E3	1 - 2 - 5 (1 - 2.2 - 4.7)																
Tolerance	Standard \pm 10 %																
	On request \pm 5 %																
Power rating	<p>Linear 0.25 W at + 70 °C</p> <table border="1"> <caption>Power Rating Data</caption> <thead> <tr> <th>Ambient Temperature (°C)</th> <th>Power (W)</th> </tr> </thead> <tbody> <tr><td>0</td><td>0.25</td></tr> <tr><td>25</td><td>0.25</td></tr> <tr><td>50</td><td>0.25</td></tr> <tr><td>70</td><td>0.25</td></tr> <tr><td>100</td><td>0.167</td></tr> <tr><td>125</td><td>0.083</td></tr> <tr><td>155</td><td>0</td></tr> </tbody> </table>	Ambient Temperature (°C)	Power (W)	0	0.25	25	0.25	50	0.25	70	0.25	100	0.167	125	0.083	155	0
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155	0																
Circuit diagram																	
Temperature coefficient	See Standard Resistance Element table																
Limiting element voltage (linear law)	250 V																
Contact resistance variation	2 % Rn or 2 Ω																
End resistance (typical)	1 Ω																
Dielectric strength (RMS)	1000 V																
Insulation resistance (500 V _{DC})	10 ⁶ M Ω																

MECHANICAL SPECIFICATIONS	
Mechanical travel	15 turns \pm 5
Operating torque (max. Ncm)	1.5
End stop torque	Clutch action
Unit weight (max. g)	0.5
Wiper (actual travel)	Positioned at approx. 50 %
Terminals	Pure Sn (code e3)

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



1/4" Multi-Turn Fully Sealed Container
Cermet Trimmer

Vishay Sfernice

PERFORMANCES			
TESTS	CONDITIONS	TYPICAL VALUES AND DRIFTS	
		$\Delta R_T/R_T$ (%)	$\Delta R_{1-2}/R_{1-2}$ (%)
Load life	1000 h at rated power 90'/30' - ambient temp. 70 °C	± 1 % Contact res. variation: < 1 % Rn	± 2 %
Climatic sequence	Phase A dry heat 125 °C - 30 % Pr Phase B damp heat Phase C cold - 55 °C Phase D damp heat 5 cycles	± 0.5 %	± 1 %
Long term damp heat	56 days 40 °C, 93 % RH	± 0.5 % Dielectric strength: 1000 V _{RMS} Insulation resistance: > 10 ⁴ MΩ	± 1 %
Rapid temperature change	5 cycles - 55 °C to + 125 °C	± 0.5 %	$\Delta V_{1-2}/\Delta V_{1-3} \leq \pm 1 \%$
Shock	50 g at 11 ms 3 successive shocks in 3 directions	± 0.1 %	± 0.2 %
Vibration	10 Hz to 55 Hz 0.75 mm or 10 g during 6 h	± 0.1 %	$\Delta V_{1-2}/\Delta V_{1-3} \leq \pm 0.2 \%$
Rotational life	200 cycles	± (2 % + 3 Ω) Contact res. variation: < 1 % Rn	-

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 CUR.	
Ω	W	V	mA	ppm/°C
10	0.25	1.58	158	± 100
20	0.25	2.23	112	
50	0.25	3.5	77	
100	0.25	35	50	
200	0.25	7.07	35	
500	0.25	11.2	22	
1K	0.25	15.8	15.8	
2K	0.25	22.3	11.2	
5K	0.25	35.3	7.1	
10K	0.25	50	5	
20K	0.25	70.7	3.5	
25K	0.25	79	3.2	
50K	0.25	112	2.2	
100K	0.25	158	1.6	
200K	0.25	224	1.1	
250K	0.25	250	1.1	
500K	0.13	250	0.50	
1M	0.06	250	0.25	
2.2M	0.03	250	0.125	

MARKING
<ul style="list-style-type: none"> Vishay trademark Model Style Ohmic value (in Ω, kΩ, MΩ) Tolerance (in %) only if non standard Manufacturing date Marking of terminal 3

PACKAGING
<ul style="list-style-type: none"> In tube of 50 pieces code T20 (TU50)

ORDERING INFORMATION (Part Number)														
T	6	3	X	A	1	0	4	K	T	2	0			
Model	STYLE		OHMIC VALUE		TOLERANCE		PACKAGING		SPECIAL NUMBER					
T63	XA XB YA YB ZA ZB		From 10 Ω to 2.2 MΩ 104 = 100 kΩ		K = 10 % on request J = 5 %		T20 = Tube 50 pieces		(If applicable) Given by Vishay for custom design					

DESCRIPTION (for information only)						
T63	XA	100K	10 %		TU	e3
MODEL	STYLE	VALUE	TOLERANCE	SPECIAL	PACKAGING	LEAD FINISH



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