Vishay Sfernice



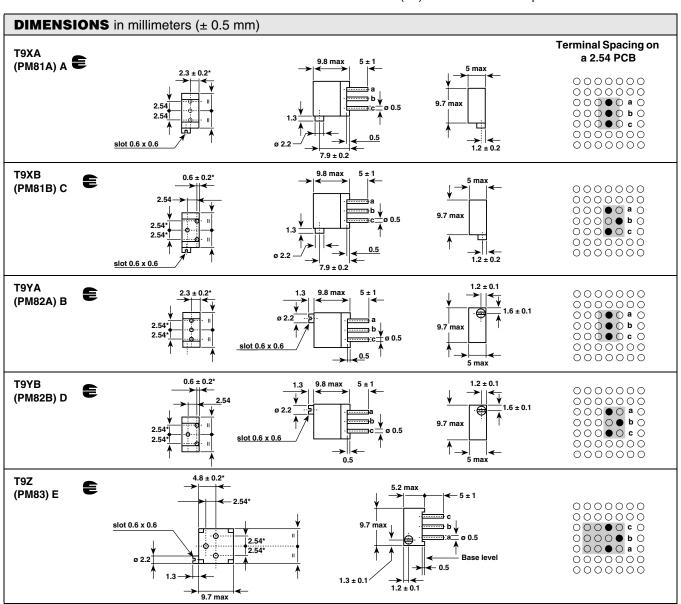
COMPLIANT

3/8" Square Multi-Turn Fully Sealed Container Cermet Trimmers



FEATURES

- · Military and Professional Grade
- 0.5 W at 70 °C
- CECC 41 101-004 (A, B, C, D, E)
- Tests according to CECC 41 000
- GAM T1
- · Fully sealed
- Operating temperature range 55 °C to + 155 °C
- \bullet Wide ohmic range from 10 Ω to 2M2 Ω
- Lead (Pb)-free and RoHS compliant



Note

Undergoes European Quality Assurance System (CECC)

^{*} to be measured at base level



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ELECTRICAL SPECIFICATIONS						
Resistive Element	Cermet					
Electrical Travel	21 turns ± 2					
Resistance Range	10 Ω to 2.2 MΩ					
Standard Series E3	1 - 2.2 - 4.7 and on request 1 - 2 - 5					
standard Tolerance	10 %					
on request	5 %					
linear	0.5 W at + 70 °C					
logarithmic	not applicable					
Power Rating	CIRCUIT DIAGRAM					
Temperature Coefficient	see Standard Resistance Element Table					
Limiting Element Voltage (Linear Law)	250 V					
Contact Resistance Variation	2 % Rn or 1 Ω					
End Resistance (Typical)	1 Ω					
Dielectric Strength (RMS)	1000 V					
Insulation Resistance (500 VDC)	10 ⁶ MΩ					

MECHANICAL SPECIFICATIONS					
Mechanical Travel	23 turns ± 5				
Operating Torque (Max. Ncm)	1.5				
End Stop Torque	Clutch action				
Net Weight	Approx. 0.82 g				
Wiper (Actual Travel)	Positioned at approx. 50 %				

ENVIRONMENTAL SPECIFICATIONS				
Temperature Range	- 55 °C to + 155 °C			
Climatic Category	55/125/56			
Sealing	Fully sealed - Container IP67			

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STANDARD RESISTANCE ELEMENT DATA						
CTANDADD		LINEAR LAW				
STANDARD RESISTANCE VALUES	MAX. MAX. POWER WORKING AT 70 °C VOLTAGE		MAX. CUR. THROUGH WIPER	TCR - 55 °C + 125 °C		
Ω	W	V	mA	ppm/°C		
10	0.5	2.2	224			
22		3.3	150			
47		4.8	103			
100		7	70			
220		10.5	47			
470		15.3	32			
1K		22.4	22			
2.2K		33.2	15			
4.7K		48.5	10	± 100		
10K		70.7	7			
22K		105	4.8			
47K	▼	153	3.2			
100K	0.5	224	2.2			
220K	0.28	250	1.1			
470K	0.13	250	0.53			
1M	0.06	250	0.25			
2.2M	0.028	250	0.11			

MARKING

Printed:

- VISHAY trademark
- Model
- Style
- Ohmic value (in Ω , $k\Omega$, $M\Omega$)
- Tolerance (in %)
- Manufacturing date
- Marking of terminal C

PACKAGING

• In magazine pack by 50 pieces (tube) code TU50

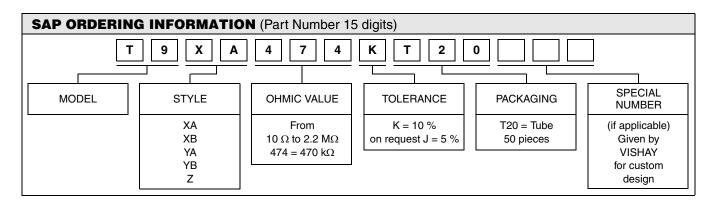
For technical questions, contact: sfer@vishay.com
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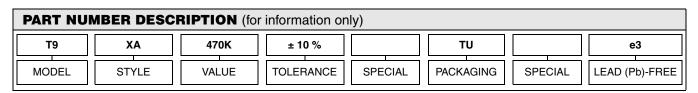


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PERFORMANCES							
CECC 41100		REQUIREMENTS		TYPICAL VALUES AND DRIFTS			
TESTS	CONDITIONS	∆R _T /R _T (%)	$\Delta R_{1-2}/R_{1-2}$ (%)	∆R _T /R _T (%)	$\Delta R_{1-2}/R_{1-2}$ (%)		
Climatic Sequence	Phase A dry heat 125 °C Phase B damp heat Phase C cold - 55 °C Phase D damp heat 5 cycles	± 2 %	± 3 %	± 0.5 %	± 1 %		
Long Term Damp Heat	56 days 40 °C, 93 % RH	\pm 2 % Dielectric strength: 700 V Insulation resistance: > 100 M Ω	± 3 %	\pm 0.5 % Dielectric strength: 1000 V Insulation resistance: > $10^4 \mathrm{M}\Omega$	± 1 %		
Rotational Life	200 cycles	± 2 % Contact res. variation: < 3 % Rn	-	± 2 % Contact res. variation: < 1 % Rn	-		
Load Life	1000 h at rated power 90'/30' - ambient temp. 70 °C	± 2 % Contact res. variation: < 3 % Rn	± 3 %	± 1 % Contact res. variation: < 1 % Rn	± 2 %		
Rapid Temperature Change	5 cycles - 55 °C to + 125 °C	± 1.5 %	ΔV ₁₋₂ /ΔV ₁₋₃ ± 1 %	± 0.5 %	$\Delta V_{1-2}/\Delta V_{1-3} < \pm 1 \%$		
Shocks	50 g at 11 ms 3 successive shocks in 3 directions	± 1 %	± 2 %	± 0.1 %	± 0.2 %		
Vibrations	10 to 55 Hz 0.75 mm or 10 g during 6 h	± 1 %	ΔV ₁₋₂ /ΔV ₁₋₃ ± 2 %	± 0.1 %	$\Delta V_{1-2}/\Delta V_{1-3} < \pm 0.2 \%$		







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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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