

3/8" Square (10 mm) Multi-Turn Cermet Trimmer



FEATURES





COMPLIANT

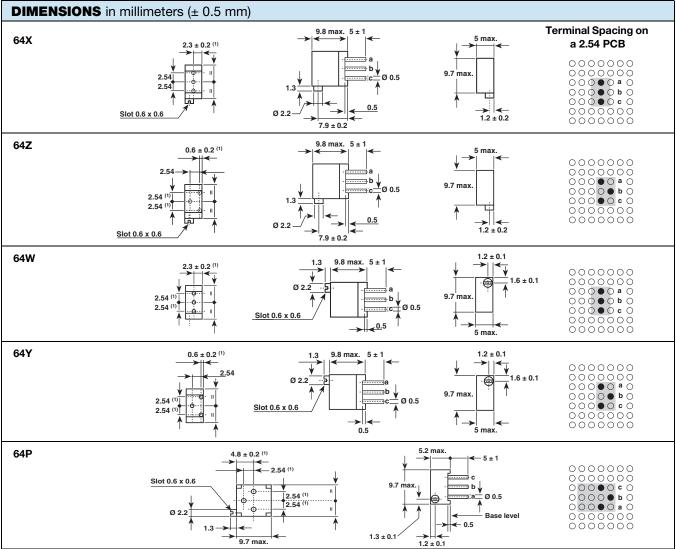
• 0.5 W at 70 °C

- Tests according to CECC 41000 or IEC 60393-1
- Contact resistance variation < 2 %
- Material categorization: for definitions of compliance please see www.vishay.com/doc?99912

LINKS TO ADDITIONAL RESOURCES



The Model 64 is a small size trimmer - 3/8" x 3/8" x 3/16" - answering PC board mounting requirements. Five versions are available which differ by the position of the control screw in relation to the PC board plane and by the spacing of the terminals. Excellent operational stability is provided by the use of a cermet element.



Note

(1) To be measured at base level



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Resistive element		Cermet				
Electrical travel		21 turns ± 2				
Resistance range		10 Ω to 2.2 M Ω				
Standard series E3		1 - 2 - 2.5 - 5				
Talamana	Standard	10 %				
Tolerance	On request	5 %				
linear		0.5 W at +70 °C				
Power rating		0.5 N N N N N N N N N N N N N N N N N N N				
Circuit diagram		$ \begin{array}{c} a \\ \bigcirc - \\ (1) \\ b \\ \Diamond \rightarrow cw \end{array} $ (2)				
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})		$10^6\mathrm{M}\Omega$				

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 %		
Terminals	Pure Sn (code e3)		

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

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ANDARD RESISTANCE ELEMENT DATA					
STANDARD		TYPICAL			
RESISTANCE VALUES	MAX. POWER MAX. WORKING VOLTAGE		MAX. CURRENT THROUGH WIPER	TCR -55 °C +125 °C	
Ω	W	V	mA	ppm/°C	
10 20 50 100 200 250 500 1K 2K 2.5K 5K 10K 20K 25K 50K 100K 200K 250K 500K	0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5	2.2 3.2 5 7.1 10 11.2 15.8 22.4 31.6 35.4 50 70.7 100 112 158 224 250 250 250 250	224 158 100 71 50 45 32 22 16 14 10 7.1 5 4.5 3.2 2.2 1.3 1 0.5 0.25 0.13	± 100	

PERFORMANCES				
TESTS	CONDITIONS	TYPICAL VALUES AND DRIFTS		
TESTS	CONDITIONS	$\Delta R_{T}/R_{T}$ (%)	∆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	$\pm~0.5~\%$ Dielectric strength: 1000 V _{RMS} Insulation resistance: $> 10^4~\text{M}\Omega$	± 1 %	
Rapid temperature change	5 cycles -55 °C to +125 °C	± 0.5 %	$\Delta V_{1\text{-}2}/\Delta V_{1\text{-}3} \leq \pm~1~\%$	
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 %	$\Delta V_{1-2}/\Delta V_{1-3} \le \pm \ 0.2 \%$	
Rotational life	200 cycles	± 4 % Contact res. variation: < 1 % Rn	-	

Note

• Nothing stated herein shall be construed as a guarantee of quality or durability

MARKING

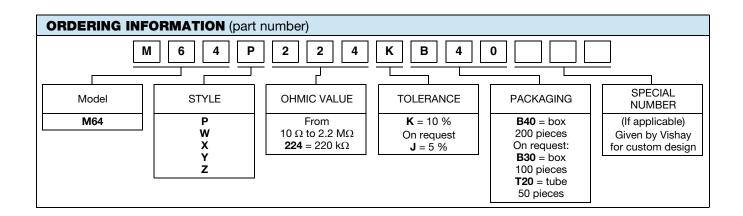
- Vishay trademark
- Model
- Style
- Ohmic value (in Ω , $k\Omega$, $M\Omega$)
- Tolerance (in %)
- Manufacturing date
- Marking of terminal 3



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PACKAGING

- In box of 200 pieces code B40 (BO200) On request:
- In box of 100 pieces code B30 (BO100)
- In tube of 50 pieces code T20 (TU50)



DESCRIPTION (for information only)						
64	Р	220K	10 %		BO200	e3
MODEL	STYLE	VALUE	TOLERANCE	SPECIAL	PACKAGING	LEAD FINISH

RELATED DOCUMENTS			
APPLICATION NOTES			
Potentiometers and Trimmers	www.vishay.com/doc?51001		
Guidelines for Vishay Sfernice Resistive and Inductive Components	www.vishay.com/doc?52029		
Selector guide	www.vishay.com/doc?49286		

ACCESSORIES	
Screwdrivers (to order separately)	www.vishay.com/doc?57015



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