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



FEATURES



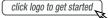


• 0.5 W at 70 °C

RoHS COMPLIANT

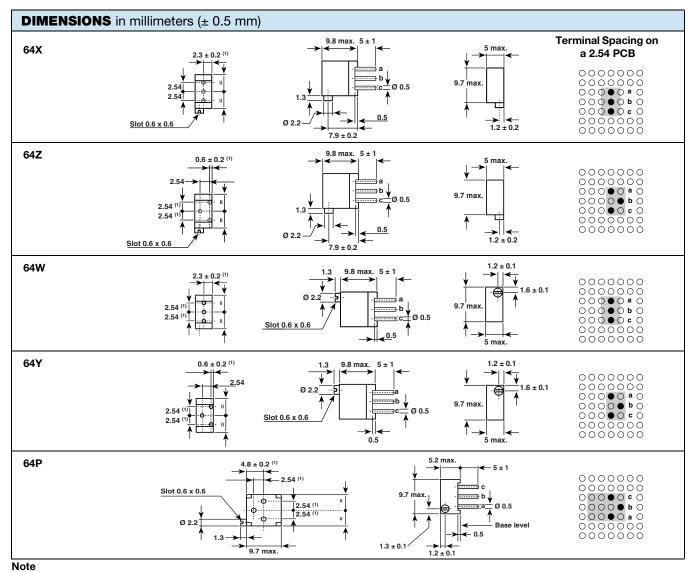
- Tests according to CECC 41000 or IEC 60393-1
- Contact resistance variation < 2 %
- Material categorization: for definitions of compliance please see www.vishay.com/doc?99912

DESIGN SUPPORT TOOLS





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.



Revision: 26-Jan-18 Document Number: 57028



(1) To be measured at base level

ELECTRICAL SPECIFICA	TIONS			
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		
Tolerance	Standard	10 %		
Tolerance	On request	5 %		
linear		0.5 W at +70 °C		
Power rating		0.5 NI HI 0 0 25 50 70 100 125 155 AMBIENT TEMPERATURE IN °C		
Circuit diagram	$ \begin{array}{c} \stackrel{a}{\circ} \longrightarrow & \stackrel{c}{\circ} \longrightarrow & \stackrel{c}{\circ} \\ \stackrel{(1)}{\circ} \longrightarrow & \stackrel{c}{\circ} \longrightarrow & \stackrel{c}{\circ} \\ \stackrel{(2)}{\circ} \longrightarrow & \stackrel{(3)}{\circ} \end{array} $			
·		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	

ANDARD RESISTANCE ELEMENT DATA				
STANDARD RESISTANCE VALUES	LINEAR LAW			TYPICAL
	MAX. POWER AT 70 °C	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		
	CONDITIONS	$\Delta R_{T}/R_{T}$ (%)	$\Delta R_{1-2}/R_{1-2}$ (%)	
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	$\pm~0.5~\%$ 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 %	$\Delta V_{1-2}/\Delta V_{1-3} \le \pm \ 1 \ \%$	
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

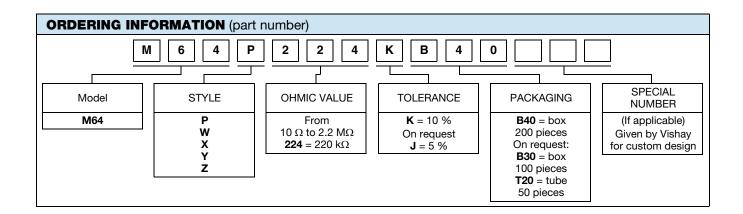
MARKING

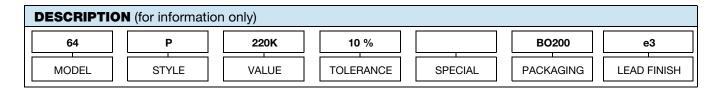
- Vishay trademark
- Model
- Style
- Ohmic value (in Ω , $k\Omega$, $M\Omega$)
- Tolerance (in %)
- Manufacturing date
- Marking of terminal 3



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)





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		



Legal Disclaimer Notice

Vishay

Disclaimer

ALL PRODUCT, PRODUCT SPECIFICATIONS AND DATA ARE SUBJECT TO CHANGE WITHOUT NOTICE TO IMPROVE RELIABILITY, FUNCTION OR DESIGN OR OTHERWISE.

Vishay Intertechnology, Inc., its affiliates, agents, and employees, and all persons acting on its or their behalf (collectively, "Vishay"), disclaim any and all liability for any errors, inaccuracies or incompleteness contained in any datasheet or in any other disclosure relating to any product.

Vishay makes no warranty, representation or guarantee regarding the suitability of the products for any particular purpose or the continuing production of any product. To the maximum extent permitted by applicable law, Vishay disclaims (i) any and all liability arising out of the application or use of any product, (ii) any and all liability, including without limitation special, consequential or incidental damages, and (iii) any and all implied warranties, including warranties of fitness for particular purpose, non-infringement and merchantability.

Statements regarding the suitability of products for certain types of applications are based on Vishay's knowledge of typical requirements that are often placed on Vishay products in generic applications. Such statements are not binding statements about the suitability of products for a particular application. It is the customer's responsibility to validate that a particular product with the properties described in the product specification is suitable for use in a particular application. Parameters provided in datasheets and / or specifications may vary in different applications and performance may vary over time. All operating parameters, including typical parameters, must be validated for each customer application by the customer's technical experts. Product specifications do not expand or otherwise modify Vishay's terms and conditions of purchase, including but not limited to the warranty expressed therein.

Except as expressly indicated in writing, Vishay products are not designed for use in medical, life-saving, or life-sustaining applications or for any other application in which the failure of the Vishay product could result in personal injury or death. Customers using or selling Vishay products not expressly indicated for use in such applications do so at their own risk. Please contact authorized Vishay personnel to obtain written terms and conditions regarding products designed for such applications.

No license, express or implied, by estoppel or otherwise, to any intellectual property rights is granted by this document or by any conduct of Vishay. Product names and markings noted herein may be trademarks of their respective owners.

X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for Potentiometers category:

Click to view products by Vishay manufacturer:

Other Similar products are found below:

590SX1N32F103SS 006-0-1 591SXJ48S252SC D31409 70B1G048K502X-A 70B1M032S502W 70B8N056F502W 70J8N048S104U 70L1N048S103W 81R1A-R22-A20L 85A2A-B28-B27/R51 GS1G044P103UA GS1T032S103UA A47-200K A4720K RA20LASD251A 132-0-0-502 132-2-0-202 132-0-0-102 132-0-0-103 132B00301 RK14K1220-F25-C0-A103 RK14K1220F25C0C104 RK14K1220-F25-C1-B103 14910AABHSX10102KA 14910F0GJSX10105KA 14910FAGJSX10102KA 14910FBGLFY00103KA 14910AABHSX10103KA 14910FAGJSX10104KA ASM6674E 152-01031 P140KH1-F15AR50K P170SPD-FC15BR10K P231-EC20BR5K P270-109A J97589 P9A2R000FISX1103MA 248BBHS0XB25104MA 248BBHS0XB25503MA RV170F-10-15R1-B500K-0021 RV24AF-10-15R1-B500-3 A43-750 A47-15K A4750K SPPG048S103U SPPG056P103U SWE-10 GA2G040F103BA