Vishay Spectrol



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



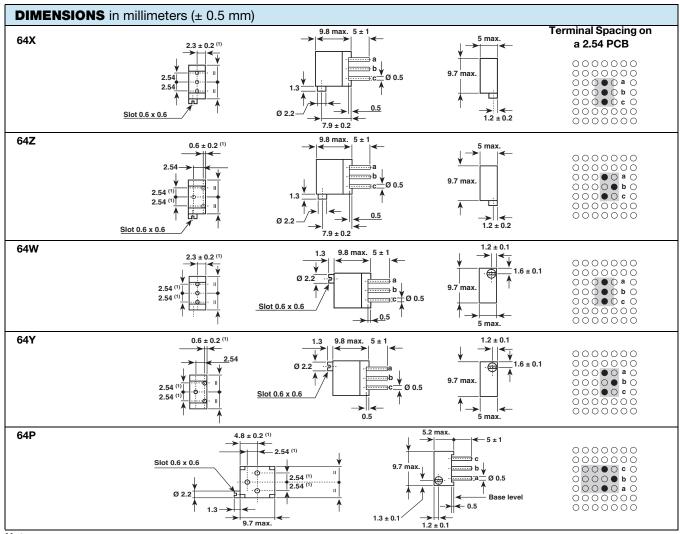
The Model 64 is a small size trimmer - 3/8" x 3/8" x 3/16" - answering PC board mounting requirements. Five versions are available which differ by the position of the control screw in relation to the PC board plane and by the spacing of the terminals. Excellent operational stability is provided by the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

FEATURES





- 0.5 W at 70 °C
- Tests according to CECC 41000 or IEC 60393-1
- Contact resistance variation < 1 % typical
- Compliant to RoHS Directive 2002/95/EC



Note

(1) 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 M Ω				
Standard series E3	1 - 2 - 2.5 - 5				
Tolerance Standard	10 %				
On request	5 %				
linear	0.5 W at + 70 °C				
Power rating	0.5 N H H H H H H H H H H H H H H H H H H H				
Circuit diagram	$ \begin{array}{c} a \\ \bigcirc \\ (1) \end{array} $ $ \begin{array}{c} c \\ \bigcirc \\ b \\ \longrightarrow \\ cw \end{array} $ $ \begin{array}{c} c \\ (3) $ $ \begin{array}{c} c \\ (3) \end{array} $				
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 Positioned at approx. 50 %			
Wiper (actual travel)				
Terminals	Pure Sn (code e3)			

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



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STANDARD RESISTANCE ELEMENT DATA						
STANDARD		TYPICAL				
RESISTANCE VALUES	MAX. POWER MAX. WORKING AT 70 °C 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 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			
12515	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		± 1 %		
Long term damp heat 56 days 40 °C, 93 % RH		$\pm~0.5~\%$ Dielectric strength: 1000 V_{RMS} Insulation resistance: $>10^4~M\Omega$	± 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	Shock 50 g at 11 ms 3 successive shocks in 3 directions		± 0.2 %		
Vibration	Vibration 10 Hz to 55 Hz 0.75 mm or 10 g during 6 h		$\Delta V_{1-2}/\Delta V_{1-3} \le \pm 0.2 \%$		
Rotational life	200 cycles	± 4 % Contact res. variation: < 1 % Rn	-		

MARKING

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

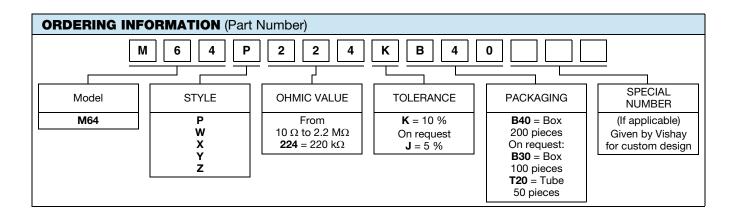


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PACKAGING

- 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

Legal Disclaimer Notice



Vishay

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