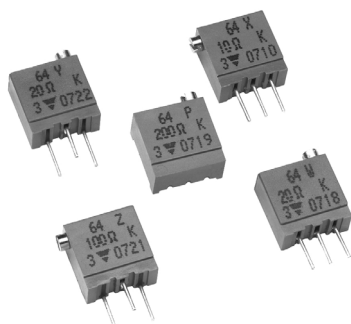


3/8" Square (10 mm) Multi-Turn Cermet Trimmer



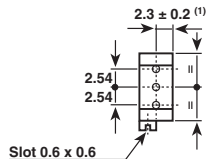
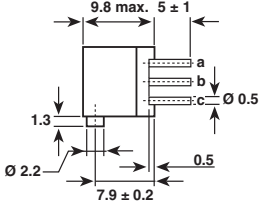
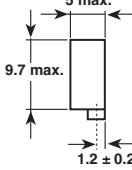
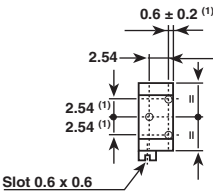
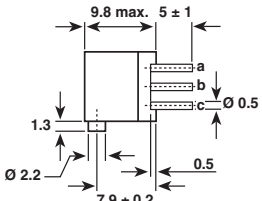
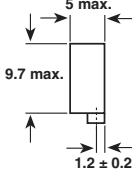
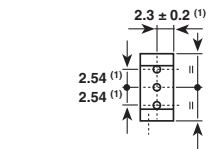
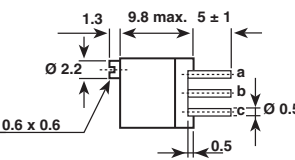
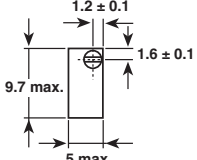
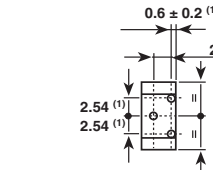
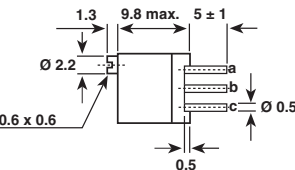
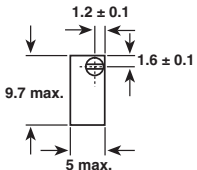
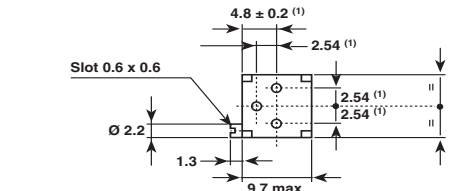
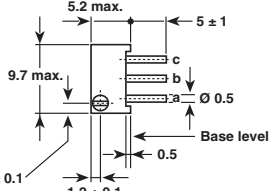
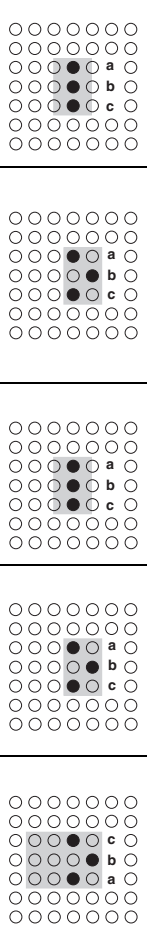
FEATURES

- Industrial grade
- 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



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.

DIMENSIONS in millimeters (± 0.5 mm)

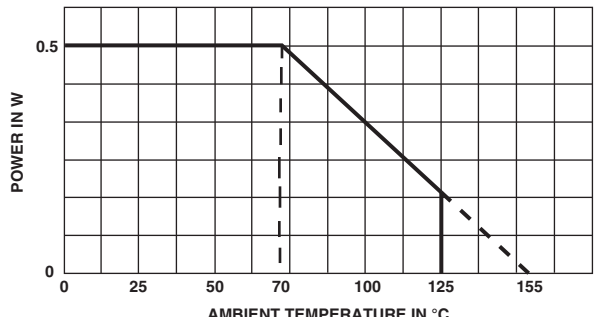
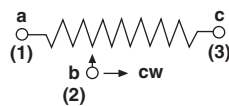
64X	64Z	64W	64Y	64P
  	  	  	  	 
Terminal Spacing on a 2.54 PCB 				

Note

(1) To be measured at base level

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

Vishay Spectrol

ELECTRICAL SPECIFICATIONS	
Resistive element	Cermet
Electrical travel	21 turns $\pm$ 2
Resistance range	10 Ω to 2.2 M Ω
Standard series E3	1 - 2 - 2.5 - 5
Tolerance	Standard 10 %
	On request 5 %
Power rating	0.5 W at + 70 °C
	linear
	
Circuit diagram	
Temperature coefficient	See Standard Resistance Element table
Limiting element voltage (linear law)	250 V
Contact resistance variation	2 % R _n 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	23 turns $\pm$ 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 + 155 °C
Climatic category	55/125/56
Sealing	Fully sealed - IP67

STANDARD RESISTANCE ELEMENT DATA

STANDARD RESISTANCE VALUES	LINEAR LAW			TYPICAL TCR - 55 °C + 125 °C
	MAX. POWER AT 70 °C	MAX. WORKING VOLTAGE	MAX. CURRENT THROUGH WIPER	
Ω	W	V	mA	ppm/°C
10	0.5	2.2	224	± 100
20	0.5	3.2	158	
50	0.5	5	100	
100	0.5	7.1	71	
200	0.5	10	50	
250	0.5	11.2	45	
500	0.5	15.8	32	
1K	0.5	22.4	22	
2K	0.5	31.6	16	
2.5K	0.5	35.4	14	
5K	0.5	50	10	
10K	0.5	70.7	7.1	
20K	0.5	100	5	
25K	0.5	112	4.5	
50K	0.5	158	3.2	
100K	0.5	224	2.2	
200K	0.31	250	1.3	
250K	0.25	250	1	
500K	0.125	250	0.5	
1M	0.063	250	0.25	
2M	0.031	250	0.13	

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 M Ω	± 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	± 4 % Contact res. variation: < 1 % Rn	-

MARKING

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

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

Vishay Spectrol

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)

ORDERING INFORMATION (Part Number)

M	6	4	P	2	2	4	K	B	4	0			
Model	STYLE			OHMIC VALUE			TOLERANCE		PACKAGING		SPECIAL NUMBER		
M64	P W X Y Z			From 10 Ω to 2.2 M Ω 224 = 220 k Ω			K = 10 % On request J = 5 %		B40 = Box 200 pieces On request: B30 = Box 100 pieces T20 = Tube 50 pieces		(If applicable) Given by Vishay for custom design		

DESCRIPTION (for information only)

64	P	220K	10 %		BO200	e3
MODEL	STYLE	VALUE	TOLERANCE	SPECIAL	PACKAGING	LEAD FINISH



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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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