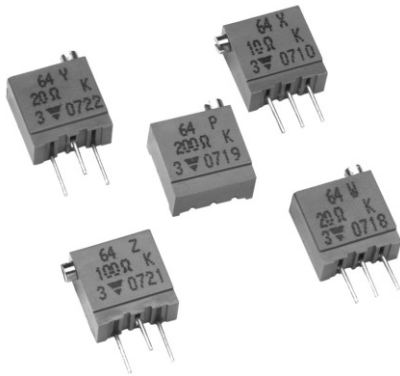


3/8" Square (10 mm) Multi-Turn Cermet Trimmer



FEATURES

- Industrial Grade
- 0.5 W at 70 °C
- Tests according to CECC 41 000
- Contact resistance variation < 1 % typical

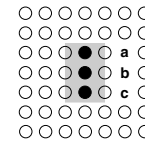
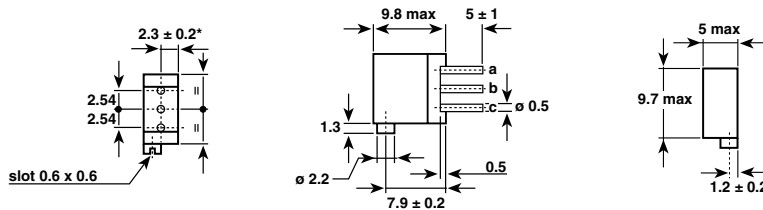


The Model 64 is a small size trimmer - 3/8" x 3/8" x 3/16" - answering PC board mounting requirements. Five versions are available which differ by the position of the control screw in relation to the PC board plane and by the spacing of the terminals. Excellent operational stability is provided by the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

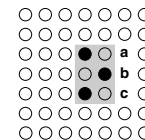
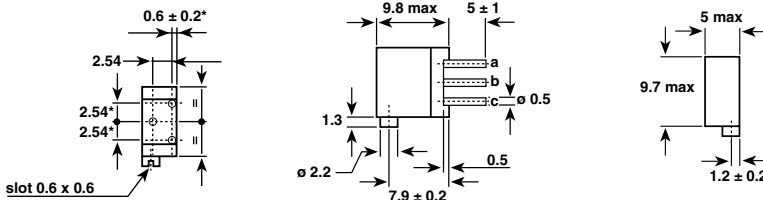
DIMENSIONS in millimeters

Terminal Spacing on a 2.54 PCB

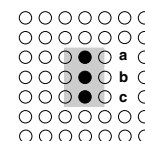
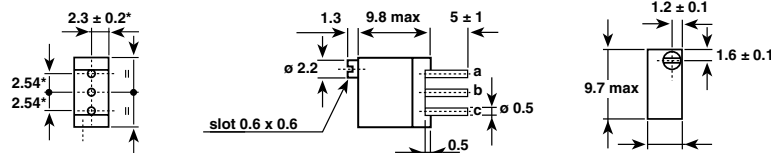
64X



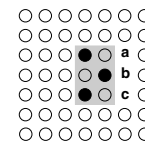
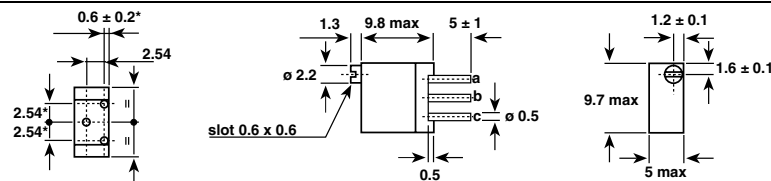
64Z



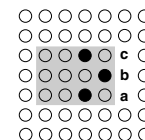
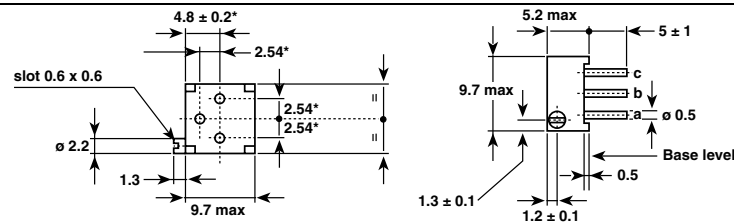
64W



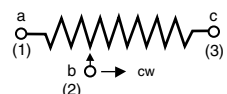
64Y



64P



CIRCUIT DIAGRAM



* to be measured at base level

Tolerance unless otherwise specified ± 0.5



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	$\pm$ 10 %
	On Request	$\pm$ 5 %
Power Rating	Linear	0.5 W at + 70 °C
	Logarithmic	not applicable
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 VDC)	10 ⁶ M Ω	

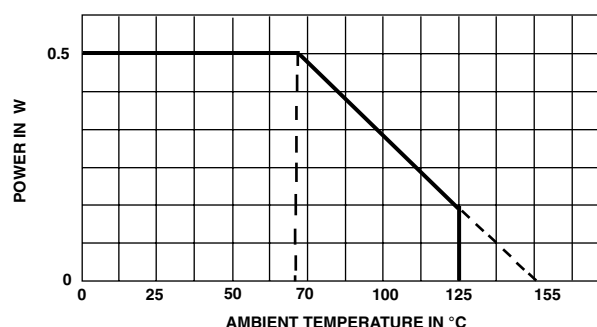
MECHANICAL SPECIFICATIONS

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 %

ENVIRONMENTAL SPECIFICATIONS

Temperature Range	- 55 °C to + 155 °C
Climatic Category	55/125/56
Sealing	fully sealed container IP67

POWER RATING CHART



PERFORMANCE

TESTS	CONDITIONS	TYPICAL VALUES AND DRIFTS	
		$\frac{\Delta RT}{RT}$ (%)	$\frac{\Delta R_{1-2}}{R_{1-2}}$ (%)
Load Life	1000 hours at rated power 90°/30' - ambient temp. 70 °C	$\pm$ 1 % Contact res. variation: < 1 % Rn	$\pm$ 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	$\pm$ 0.5 %	$\pm$ 1 %
Long Term Damp Heat	56 days 40°C, 93 % RH	$\pm$ 0.5 % Dielectric strength: 1000 V _{RMS} Insulation resistance: > 10 ⁴ M Ω	$\pm$ 1 %
Rapid Temperature Change	5 cycles - 55 °C at + 125 °C	$\pm$ 0.5 %	$\frac{\Delta V_{1-2}}{V_{1-3}} \leq \pm$ 1 %
Shock	50 g at 11 m seconds 3 successive shocks in 3 directions	$\pm$ 0.1 %	$\pm$ 0.2 %
Vibration	10 - 55 Hz 0.75 mm or 10 g during 6 hours	$\pm$ 0.1 %	$\frac{\Delta V_{1-2}}{V_{1-3}} \leq \pm$ 0.2 %
Rotational Life	200 cycles	$\pm$ 4 % Contact res. variation: < 1 % Rn	

**STANDARD RESISTANCE ELEMENT DATA**

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

MARKING

Printed:

- VISHAY trademark
- model
- style
- ohmic value (in Ω , k Ω , M Ω)
- tolerance (in %)
- manufacturing date
- marking of terminal 3

LEAD FINISH

Pure Sn. Code e3

PACKAGING

- In bulk (box of 200 pieces), code B0200
- On request in tube

ORDERING INFORMATION

64 MODEL	P TERMINAL STYLE P, W, X, Y or Z	201 EIA RESISTANCE CODE	e3 LEAD FINISH e3: pure Sn
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SAP PART NUMBERING GUIDELINES

M	6	4	P	2	0	1	K	B	4	0			
MODEL			STYLE	OHMIC VALUE			TOL	PACKAGING CODE			SPECIAL (IF APPLICABLE)		

See the end of this data book for conversion tables



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