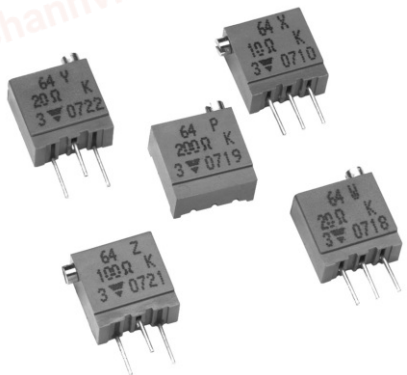
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3/8" Square (10 mm)
Multi-Turn Cermet Trimmer



FEATURES

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

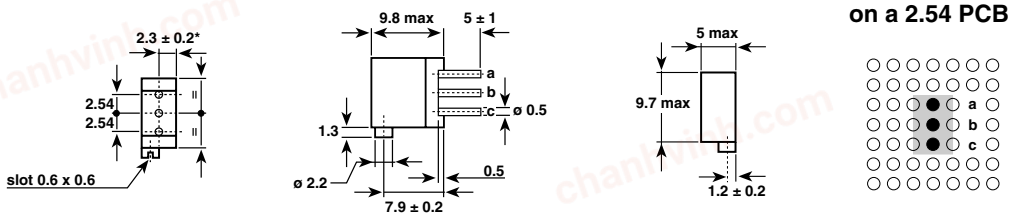
RoHS COMPLIANT

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.

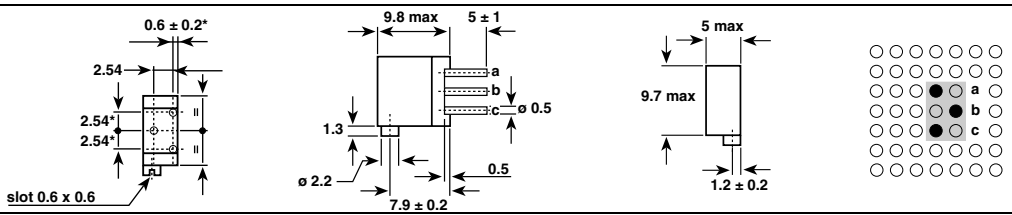
DIMENSIONS in millimeters

Terminal Spacing on a 2.54 PCB

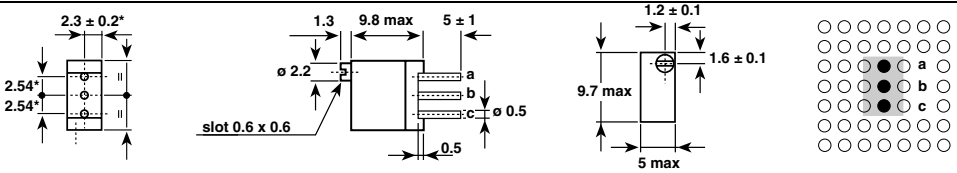
64X



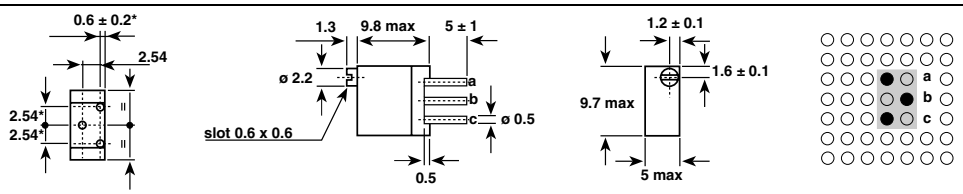
64Z



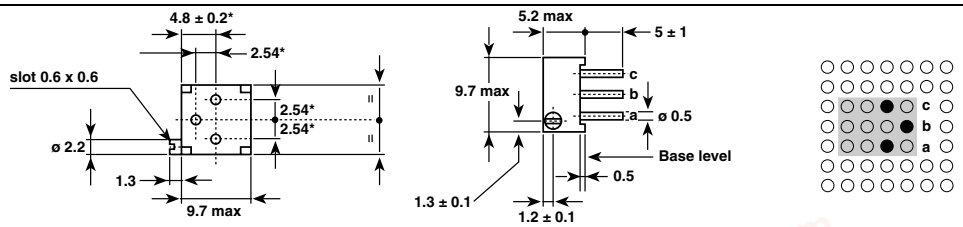
64W



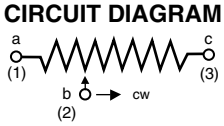
64Y



64P



CIRCUIT DIAGRAM



* to be measured at base level

Tolerance unless otherwise specified ± 0.5

For technical questions, contact: sfer@vishay.com

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

ELECTRICAL SPECIFICATIONS		
Resistive Element		cermet
Electrical Travel		21 turns ± 2
Resistance Range		10 Ω to 2.2 MΩ
Standard series e3		1 - 2 - 2.5 - 5
Tolerance	**Standard**	± 10 %
	On Request	± 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 MΩ

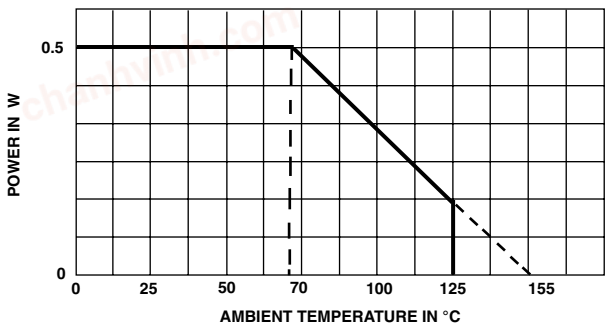
MECHANICAL SPECIFICATIONS

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 %

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	± 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 MΩ	± 1 %
Rapid Temperature Change	5 cycles - 55 °C at + 125 °C	± 0.5 % $\frac{\Delta V_{1-2}}{V_{1-3}}$	≤ ± 1 %
Shock	50 g at 11 m seconds 3 successive shocks in 3 directions	± 0.1 %	± 0.2 %
Vibration	10 - 55 Hz 0.75 mm or 10 g during 6 hours	± 0.1 % $\frac{\Delta V_{1-2}}{V_{1-3}}$	≤ ± 0.2 %
Rotational Life	200 cycles	± 4 % Contact res. variation: < 1 % Rn	

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Vishay Spectrol

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

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	
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	± 100
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, kΩ, MΩ)
- 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	P	201	e3
MODEL	TERMINAL STYLE	EIA RESISTANCE CODE	LEAD FINISH
	P, W, X, Y or Z		e3: pure Sn

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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