Vishay Spectrol



3/8" Square (10mm) 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.

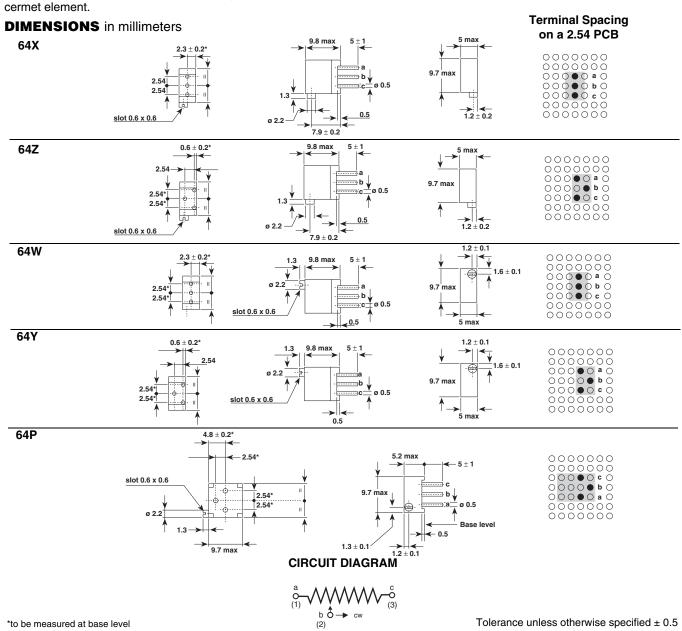
Five versions are available which differ by the position of the control screw in relation to the PC board plane and by the spacing of the terminals.

Excellent operational stability is provided by the use of a cermet element

FEATURES

- Industrial Grade
- 0.5 Watt at 70°C
- Tests according to CECC 41 000
- · Good stability
- Contact resistance variation < 1% typical
- Meets MIL-R-22097 specifications









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ELECTRICAL SPECIFICATIONS					
Resistive Element		cermet			
Electrical Travel		21 turns ± 2			
Resistance Range		10 Ω to 2.2M Ω			
Standard series E3		1 - 2 - 2.5 - 5			
Tolerance	Standard	± 10%			
	On Request	± 5%			
Power Rating	Linear	0.5W at + 70°C			
	Logarithmic	not applicable			
Temperature Coefficient		See Standard Resistance Element Table			
Limiting Element Voltage (Linear Law)		250V			
Contact Resistance Variation		2% Rn or 2Ω			
End Resistance (Typical)		1Ω			
Dielectric Strength (RMS)		1000V			
Insulation Resistance (500VDC)		10 ⁶ ΜΩ			

MECHANICAL SPECIFICATIONS

Mechanical Travel 23 turns ± 5 **Operating Torque (max. Ncm)** 1.5

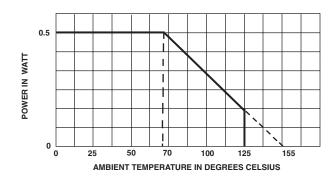
End Stop Torque clutch action **Net Weight** Approx. 0.82 g

Positioned at approx. 50% Wiper (actual travel)

ENVIRONMENTAL SPECIFICATIONS

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

POWER RATING CHART



PERFORMANCE						
		TYPICAL VALUES A	TYPICAL VALUES AND DRIFTS			
TESTS	CONDITIONS	<u>ΔRT</u> (%)		R1-2 R1-2 (%)		
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	\pm 0.5% Dielectric strength: 1000V RMS Insulation resistance: > $10^4 \text{M}\Omega$		± 1%		
Rapid Temperature Change	5 cycles - 55°C at + 125°C	± 0.5%	<u>ΔV1-2</u> V1-3	≤ ± 1%		
Shock	50 g at 11m secs 3 successive shocks in 3 directions	± 0.1%		± 0.2%		
Vibration	10-55 Hz 0.75mm or 10 g during 6 hours	± 0.1%	<u>ΔV1-2</u> V1-3	≤ ± 0.2%		
Rotational Life 200 cycles		± 4% Contact res. variation: < 1% Rn				

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STANDARD RESISTANCE ELEMENT DATA							
STANDARD		T.C.					
RESISTANCE VALUES	MAX. POWER AT 70°C		MAX. CUR. THROUGH WIPER	-55°C +125°C			
Ω	W	V	mA	ppm/°C			
10	0.5	2.2	224				
20		3.2	158	0			
50		5	100	+200			
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	± 100			
20k		100	5				
25k		112	4.5				
50k	\ \ \	158	3.2				
100K	0.5	224	2.2				
200K	200K 0.31		1.3				
250K	0.25	250	1				
500K	500K 0.125		0.5				
1M	0.063	250	0.25				
2M	0.031	250	0.13				

MARKING

Printed:

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

LEAD FINISH Pure Sn. Code e3

PACKAGING						
In bulk (box of 200 pieces), code B0On request in tube	200					
ORDERING INFORMATION						
64 MODEL	P TERMINAL STYLE	201 EIA RESISTANCE CODE	e3 LEAD FINISH			
	P, W, X, Y or Z		e3: pure Sn			
SAP PART NUMBERING GUIDELINES						
M 6 4 P MODEL STYLE	2 0 1 OHMIC VALUE	K B 4 0 TOL PACKAGING CODE	SPECIAL (IF APPLICABLE)			
See the end of this data book for conversion tables						

Legal Disclaimer Notice



Vishay

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