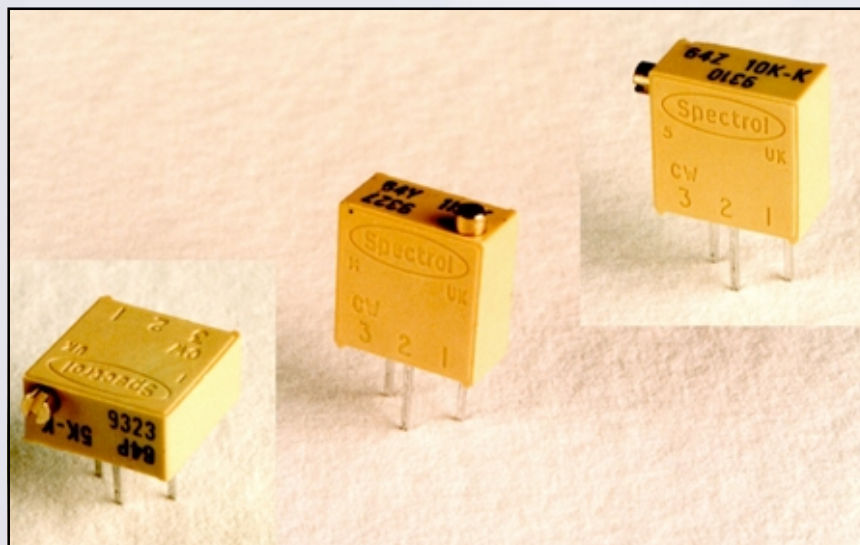


A 3/8"sq (10mm) Multiturn Cermet Trimmer

64

Spectrol®



The Model 64 cermet trimmer from Spectrol incorporate improved design features making it one of the most advanced components of its type available in Europe. Giving maximum versatility with a choice of five pin styles and top or side adjustment. Available from 10 ohms to 2 Megohm, the Model 64 has 25 turns nominal travel and a resistance tolerance of $\pm 10\%$. Significant design features include the use of two Chevron sealing rings on the shaft, for more consistent torque and improved adjustability and flame retardant housing. A precious metal wiper significantly improves long term stability, making it particularly suitable for telecommunication applications.

ELECTRICAL

Effective Travel:

25 turns nominal

Resistance Range:

10 Ω thru 3megohms

Resistance Tolerance:

$\pm 10\%$

End Resistance:

less than 2 Ω

Temperature Coefficient of Resistance:

100 ppm/ $^{\circ}\text{C}$. 100 Ω thru 2 megohms
0 to +250 ppm/ $^{\circ}\text{C}$. below 100 Ω

Power Rating:

0.5 watts at 70 $^{\circ}\text{C}$. derated linearly to zero watts at 125 $^{\circ}\text{C}$. Maximum voltage not to exceed 300 V

Dielectric Withstanding Voltage:

1000 VAC at sea level. 250 VAC at 80,000 feet (24,400 meters)

Insulation Resistance:

1000 Meg ohms minimum

Contact Resistance Variation:

2% or 2 Ω whichever is greater

MECHANICAL

Stop:

Contact idles at stop

Operating Torque:

3mNm nominal

Weight:

0.04oz (1.13 grams) maximum

Resistance Element:

Cermet

2 Terminal Adjustability:

0.05% of RT

3-terminal Adjustment:

0.01% of applied voltage

RESISTANCE VALUES

Ohms- 10R, 20R, 50R, 100R, 200R, 500R, 1K, 2K, 5K, 10K, 20K, 25K, 50K, 100K, 200K, 250K, 500K, 1M, 2M

MARKING

Unit Identification:

Manufacturer's name and model number, resistance value and tolerance, linearity specification date code and terminal identification.

ENVIRONMENTAL

	MAX R	CHANGE Vab Vac	1	2	3
Temperature Range: -55 $^{\circ}\text{C}$ to +55 $^{\circ}\text{C}$	2%	1%	(PARA 2.3.6)	TEST NA (IEC 68-2-14)	METHOD 107
Bumps: 390 m/s ² 4000	1%	-	(PARA 2.3.3)	TEST EB (IEC 68-2-29)	NO EQUIV.
Vibration: 98 m/s ² 10 to 500 Hz	1%	2%	(PARA 2.3.2)	TEST FC (IEC 68-2-6)	METHOD 204
Electrical Endurance: 1000 hour	3%*	.*	(PARA 2.5.16)		NO EQUIV.
Soldering: -	-	-	(PARA 2.3.7)	TEST TB (IEC 68-2-20)	METHOD 208
Resistance to heat:	1%	-	(PARA 2.3.7)	TEST TB (IEC 68-2-20A)	METHOD 210
Damp heat steady rate: 21 days	3%	-	(PARA 2.1)	METHOD 1A	
Sealing: 85 $^{\circ}\text{C}$ for 1 min	-	-	AS IEC	TEST C (IEC 68-2-3)	METHOD 103
Mechanical Life: 200 cycles	3%	-		TEST QC (IEC 68-2-17)	METHOD 112
Terminal strength: 2.2lbs (1kg)	min	-		METHOD 2	

* Better than 2% changes of wiper resistance with respect to element is achievable with the precious metal wiper

Related documents:

1 Per CECC 41100 2 Per IEC 68.1 Part 1 3 Per MIL 202F

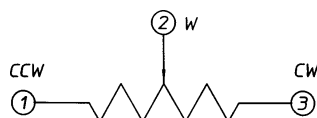
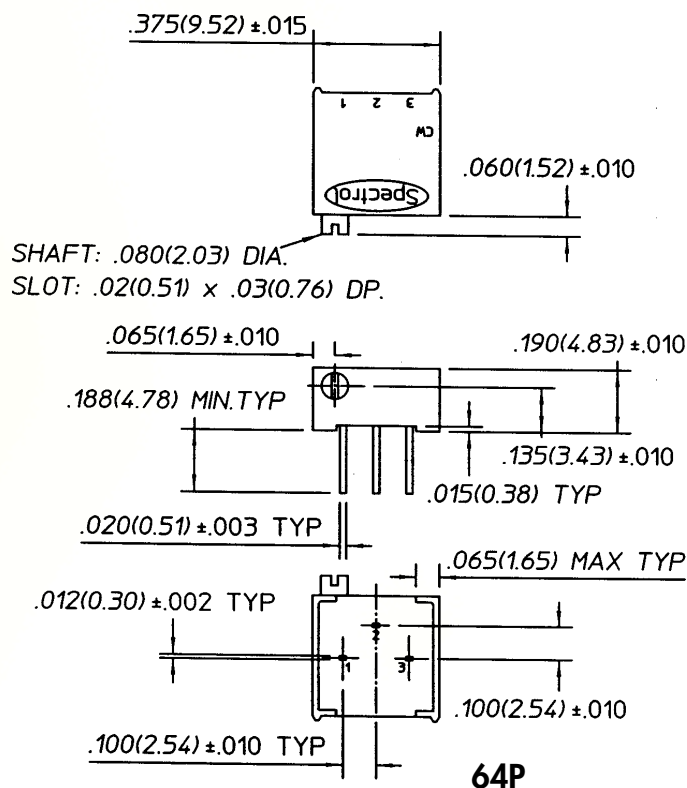
Model 64

PRESENTING WORLDWIDE • THE TOTAL PACKAGE OF ELECTRONIC COMPONENTS

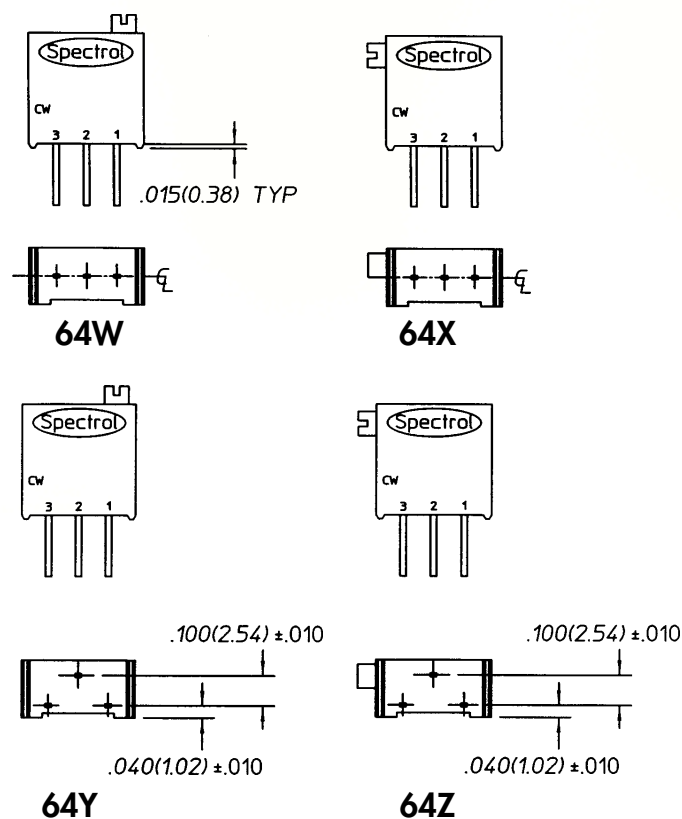
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DIMENSIONS



TOLERANCES: ± .015 (0.38) except where noted.
Dimensions; in/(mm).



ORDERING INFORMATION

64

Model
Number

P

Terminal
Style P, W, X
Y or Z

XXX

Resistance Value
EIA Code

Standard Resistance

Res. Ohms	Res. Code
10	100
20	200
50	500
100	101
200	201
500	501
1000*	102*
2000*	202*
5000*	502*
10000*	103*
20000*	203*
25000	253
50000	503
100000	104
200000	204
250000	254
500000	504
1000000	105
2000000	205

*Preferred Range



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ISO 9001

