

MODEL 64

The **Model 64** cermet trimmer from Spectrol incorporates 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 2 megohms
- Resistance tolerance:
 $\pm 10\%$
- End resistance:
less than 2 Ω
- Temperature coefficient of resistance:
100 ppm/ $^{\circ}$ C. 100 Ω thru 2 megohms
0 to +250 ppm/ $^{\circ}$ C. below 100 Ω
- Power rating:
0.5 watts at 70 $^{\circ}$ C. derated linearly to zero watts at 125 $^{\circ}$ 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 20 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 adjustability:
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, tolerance, date code and terminal identification.

ENVIRONMENTAL

	MAX. CHANGE ΔR	$\frac{V_{oh}}{V_{vac}}$	1	2	3	
temperature range:	-55 $^{\circ}$ C to +125 $^{\circ}$ 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 T (IEC 68-2-20)	METHOD 208
resistance to heat	-	1%	-	(PARA 2.3.7)	TEST TB (IEC 68-2-20A)	METHOD 210
					METHOD 1A	
damp heat steady state	56 days	3%	-	(PARA 2.1)	TEST C (IEC 68-2-3)	METHOD 103
sealing	125 $^{\circ}$ C for 1 min	-	-	AS IEC	TEST QC (IEC 68-2-17)	METHOD 112
mechanical life	200 cycles	3%	-		METHOD 2	
terminal strength	2.2lbs (1kg)		min			

* 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

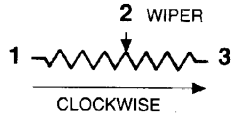
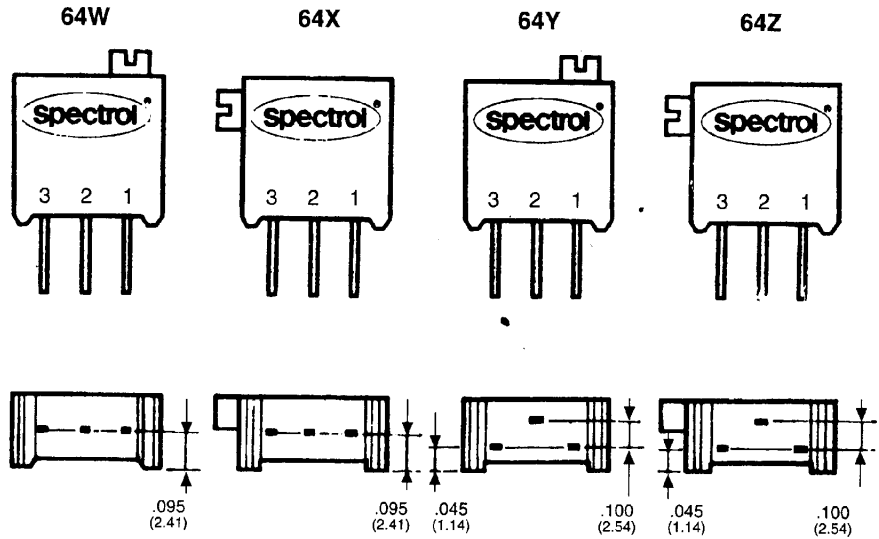
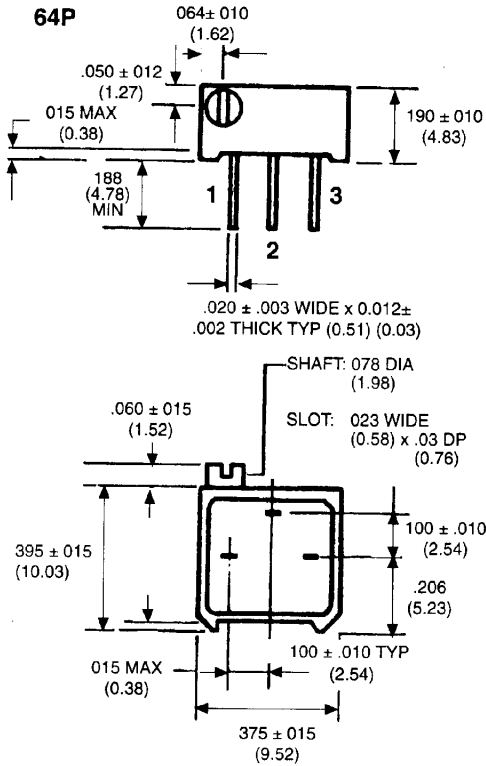
3 Per MIL 202F

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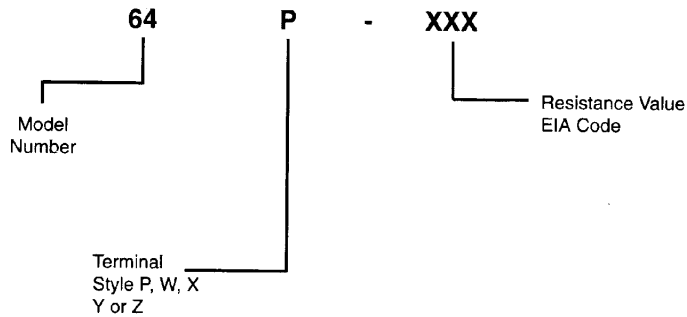
Spectrol Electronics GmbH, Bauschstrasse 16, D73079 Süssen, Germany, Tel: 07162/7001-2, Fax: 07162/3546

Dimensions



TOLERANCES: ± 0.015 (0.38) WHERE NOTED
DIMENSIONS IN / (MM)

Ordering Information



ISO 9001



FM 26189



A Kearney-National Company

As a general policy Spectrol does not recommend the use of any of its products in life support applications where failure or malfunction of the Spectrol product can be reasonably expected to cause failure of the life support device or to significantly affect its safety or effectiveness.