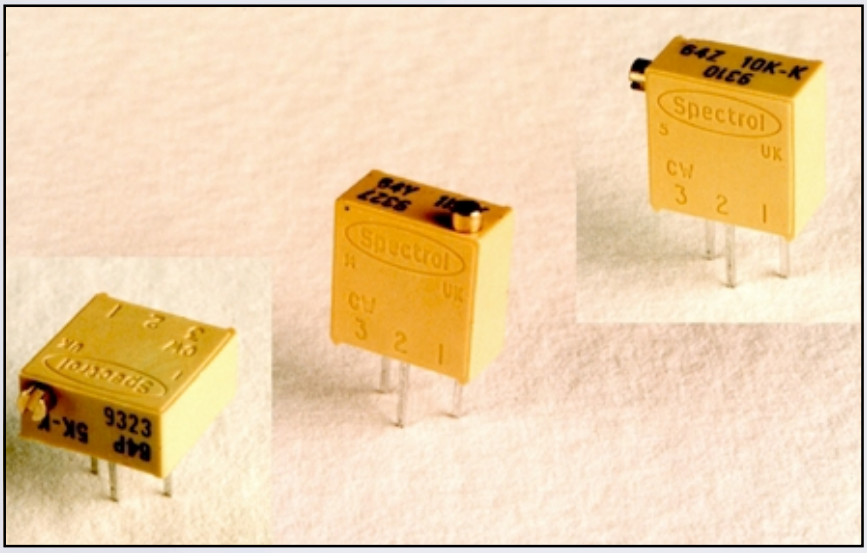
A 3/8"sq (10mm) Multiturn Cermet Trimmer

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 ±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:
10Ω thru 3megohms

Resistance Tolerance:
±10%

End Resistance:
less than 2Ω

Temperature Coefficient of Resistance:
100 ppm/°C. 100Ω thru 2 megohms
0 to +250 ppm/°C. below 100Ω

Power Rating:
0.5 watts at 70°C. derated linearly to zero watts at 125°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 2Ω 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 CHANGE R	MAX CHANGE Vab Vac	1	2	3
Temperature Range:	-55° C to +55° C	2%	1%	(PARA 2.3.6)	TEST NA (IEC 68-2-14)	METHOD 107
Bumps:	390 m/s² 4000	1%	-	(PARA 2.3.3)	TEST EB (IEC 68-2-29)	NO EQUIV.
Vibration:	98 m/s² 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 1A	METHOD 210
Damp heat steady rate:	21 days	3%	-	(PARA 2.1)	TEST C (IEC 68-2-3)	METHOD 103
Sealing:	85° 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

Standard Resistance

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