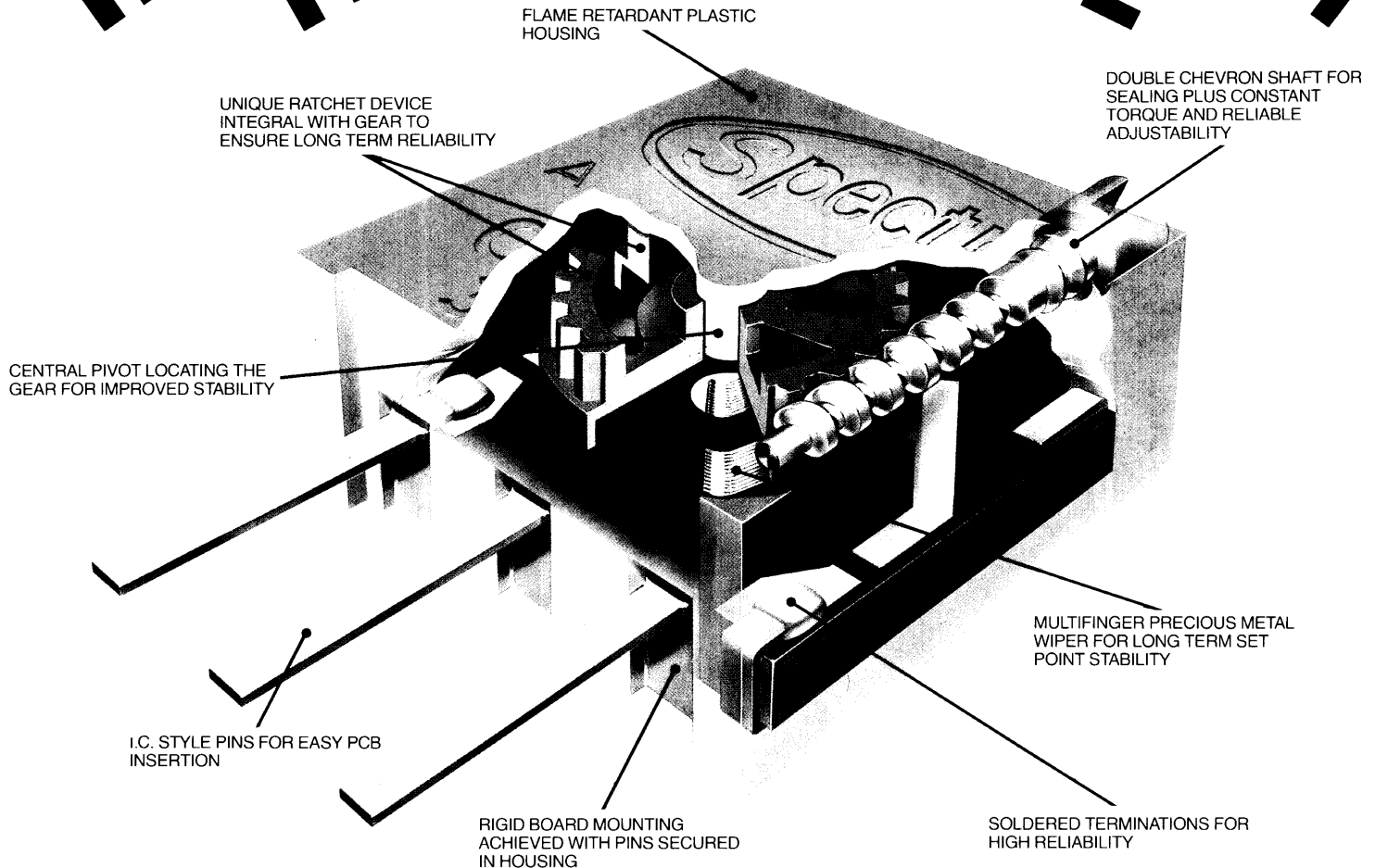


# The Model 64

# The ULTimate MULTIturn

# From SPECTROL



## A 3/8"sq (10mm) multiturn cermet trimmer with features to make it your new no. 1 choice from the SUPATRIM stable.

The new Model 64 cermet trimmer from Spectrol incorporates improved design features making it one of the most advanced components of its type now available in Europe.

Giving maximum versatility with a choice of five pin styles and top or side adjustment.

Available in 10 ohm to 2 Megohm, the new 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. A precious metal wiper significantly improves long term stability, making it particularly suitable for telecommunication applications.

A Division of

**Wabash**  
Magnetics

A Kearney-National Company

**Spectrol**<sup>®</sup>

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# MODEL 64 10Ω to 2 Megohms

## TRIMMING POTENTIOMETERS

### SPECIFICATIONS (per CECC; IEC and MIL where noted).

#### ELECTRICAL

EFFECTIVE TRAVEL	25 turns nominal
RESISTANCE RANGE	10Ω thru 2 megohms
RESISTANCE TOLERANCE	±10%
END RESISTANCE	less than 2Ω
TEMPERATURE COEFFICIENT OF RESISTANCE	100 ppm/°C, 100Ω thru 2 megohms 0 to +250ppm/°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 megohms minimum
CONTACT RESISTANCE VARIATION.	2% or 2Ω whichever is greater

#### ENVIRONMENTAL

		MAX CHANGE ΔR				
			Vab	1	2	3
CHANGE OF TEMPERATURE	-55°C to 125°C	2%	1%	(PARA 2.3.6)	TEST NA (IEC 68-2-14)	METHOD 107
BUMP	390m/s <sup>2</sup> 4000	1%	-	(PARA 2.3.3)	TEST EB (IEC 68-2-29)	NO EQUIV.
VIBRATION	98m/s <sup>2</sup> 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)	TEST T (IEC 68-2-20)	NO EQUIV.
SOLDERING		-	-	(PARA 2.3.7)	TEST TB (IEC 68-2-20A)	METHOD 208
RESISTANCE TO HEAT		1%	-	(PARA 2.3.7)	TEST C (IEC 68-2-3)	METHOD 210
DAMP HEAT STEADY STATE	56 days	3%	-	(PARA 2.1)	TEST QC (IEC 68-2-17)	METHOD 1A
SEALING	125°C for 1 min	-	-	AS IEC		METHOD 103
MECHANICAL LIFE	200 cycles	3%	-			METHOD 112
TERMINAL STRENGTH	2.2lbs (1kg)	min	-			METHOD 2

#### MECHANICAL

STOP	Contact idles at stops
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.

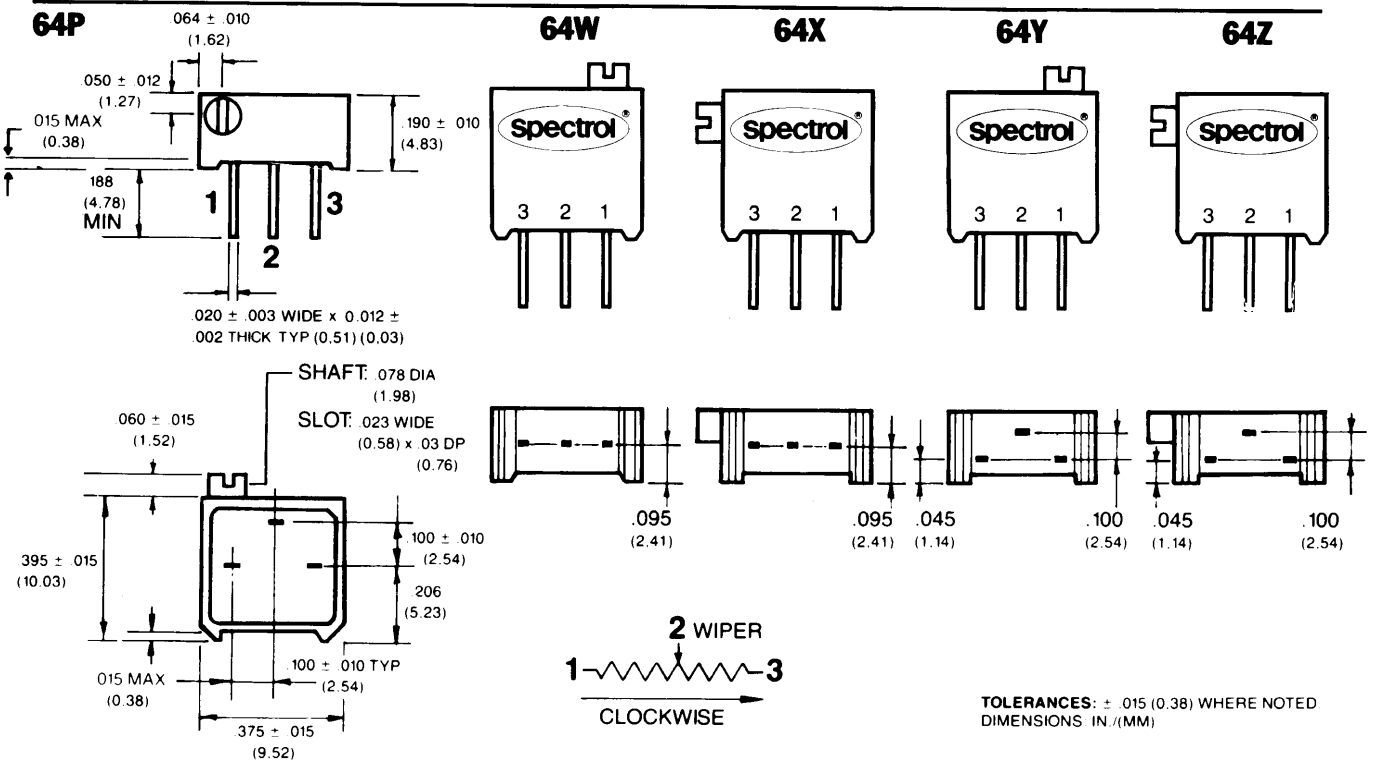
#### MARKING

Unit Identification:  
Manufacturer's name and part number, IEC resistance value coding, tolerance, date code and terminal identification.

\* 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



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.

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