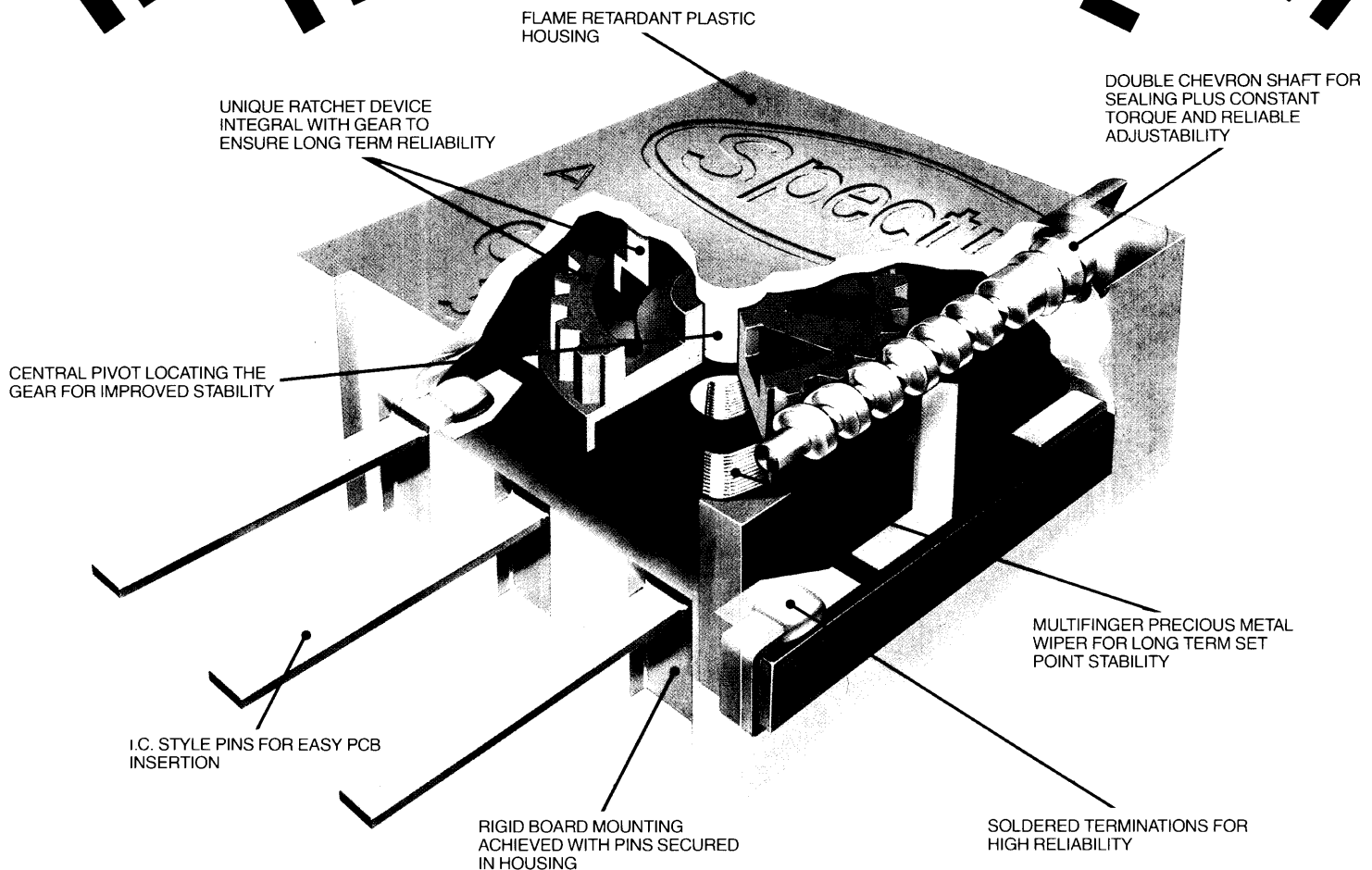


# The Model 64

# The ULTimate MULTIturn

# From SPECTROL



**A  $\frac{3}{8}$ "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>

Spectrol Reliance Limited, Garrard Way, Swindon, Wiltshire SN3 3HY Tel: 0793 521351 Telex: 494692 Fax: 0793 539255

Spectrol Electronics GmbH, Bauschstrasse 16, W7334 Süssen, Germany. Tel: 07162/7001-2, Telex: 727388, Fax: 07162/3546

# MODEL 64

10 $\Omega$  to 2 Megohms

## TRIMMING POTENTIOMETERS

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

#### ELECTRICAL

|                                       |                                                                                                                        |
|---------------------------------------|------------------------------------------------------------------------------------------------------------------------|
| EFFECTIVE TRAVEL                      | 25 turns nominal                                                                                                       |
| RESISTANCE RANGE                      | 10 $\Omega$ thru 2 megohms                                                                                             |
| RESISTANCE TOLERANCE                  | $\pm 10\%$                                                                                                             |
| END RESISTANCE                        | less than 2 $\Omega$                                                                                                   |
| TEMPERATURE COEFFICIENT OF RESISTANCE | 100 ppm/ $^{\circ}$ C, 100 $\Omega$ thru 2 megohms<br>0 to +250ppm/ $^{\circ}$ C, below 100 $\Omega$                   |
| 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 megohms minimum                                                                                                   |
| CONTACT RESISTANCE VARIATION          | 2% or 2 $\Omega$ whichever is greater                                                                                  |

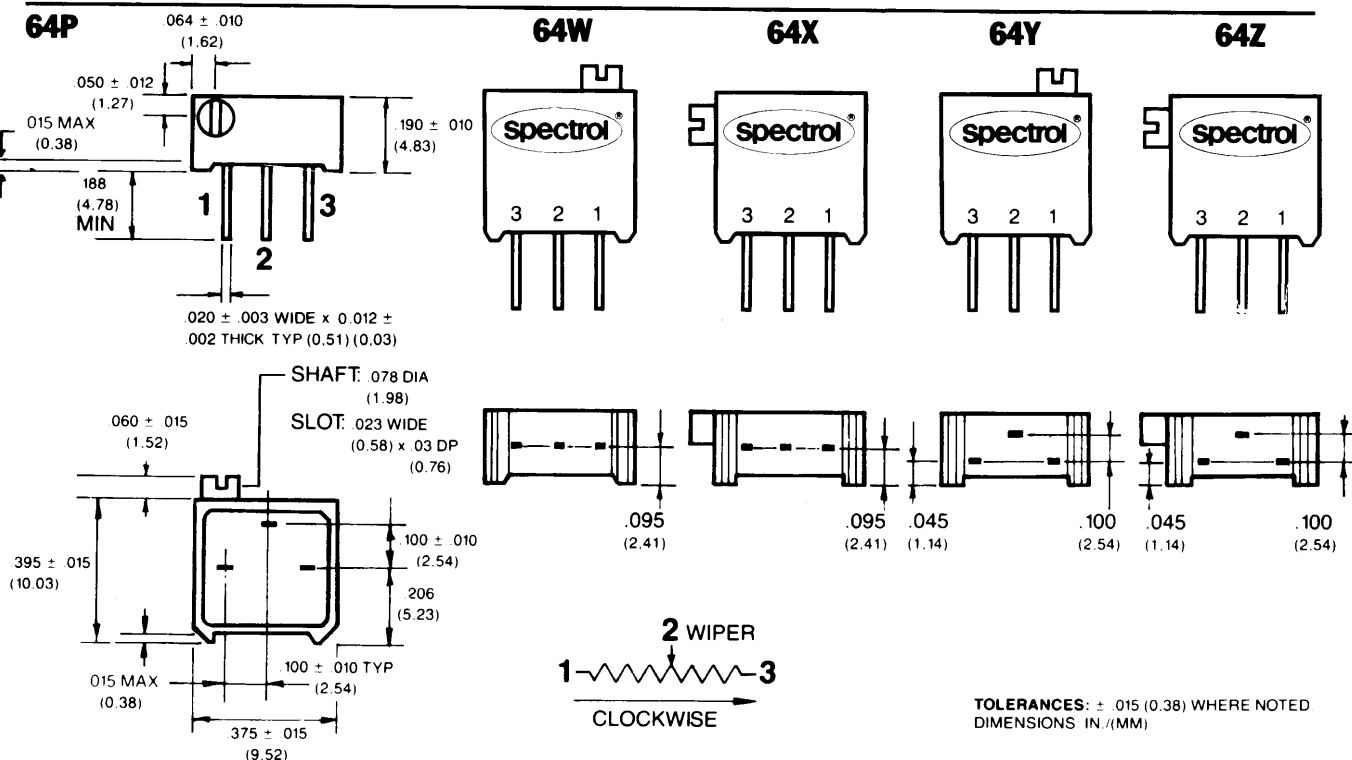
#### ENVIRONMENTAL

|                        |                                 | MAX CHANGE |                         |                                                                                   |                                                                                     |                                                                                     |
|------------------------|---------------------------------|------------|-------------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
|                        |                                 | $\Delta R$ | $\frac{V_{ab}}{V_{ac}}$ |  |  |  |
| 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)                                                                     |                                                                                     | 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                                                                          |
|                        |                                 |            |                         |                                                                                   |                                                                                     |                                                                                     |
| DAMP HEAT STEADY STATE | 56 days                         | 3%         | −                       | (PARA 2.1)                                                                        | METHOD 1A                                                                           |                                                                                     |
| SEALING                | 125°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



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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