

- Cermet resistive element.
- Available in all series T-21 models (except detent option).
- High power dissipation.
- More than 50.000 operations.
- Series I-21 switches adaptable.

# **MECHANICAL SPECIFICATIONS**

- Mechanical rotation angle:  $310^{\circ} \pm 5^{\circ}$ - Electrical rotation angle: 290° ± 20° - Operating torque: 0.5 to 1.5 Ncm. (0.7 to 2.1 in-oz)

- Max. stop torque: > 80 Ncm (> 112 in-oz)

#### **ELECTRICAL SPECIFICATIONS**

-Range of values (\*)

 $100\Omega \le Rn \le 5 M$  (Decad. 1.0 - 2.0 - 2.2 - 2.5 - 4.7 - 5.0)

-Tolerance (\*):  $100\Omega \le Rn \le 1M \Omega$  .....  $\pm 20\%$  $1M\Omega < Rn \le 5M$ ----- ± 30%

- Max. Voltage: 500 VDC (lin); 250 VDC (no lin)

- Nominal Power 70°C (158°F) (see power rating curve) 2 W (lin); 0.5 W (no lin)

- Taper (\*\*): Lin.; Log.; Alog.

– Residual resistance:  $\leq$  0.1% Rn (2  $\Omega$  min.)

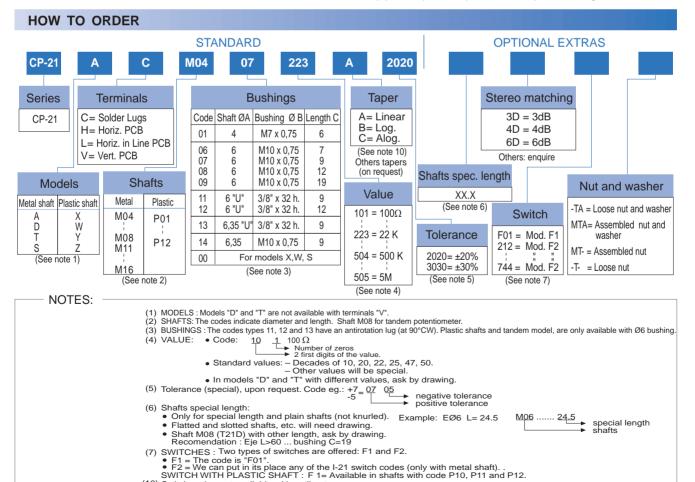
-Equivalent noise resistance:  $\leq$  3% Rn (3  $\Omega$  min.)

-Breakdown voltage: > 750 VAC.

- Operating temperature: -40°C; + 90°C (-40°F;194°F)

Others on request

(\*) Others on request (\*\*) Other tapers on request. No linear tapers; values higher than 1 K  $\Omega$ .



NOTE: The information contained here should be used for reference purposes only.

(10) Switch option not available with antilog taper.



## HOW TO ORDER CUSTOM DRAWING

## STANDARD OPTIONS

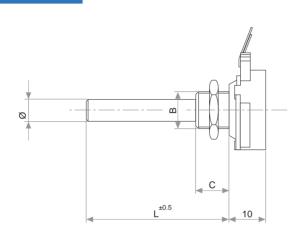
CP-21 A C + DRAWING NUMBER (Max. 16 digits)

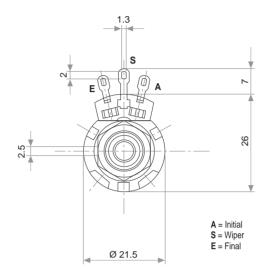
This way of ordering should be used for options which are not included in the "How to order" standard and optional extras.

Shaft special length	0; standard length	
Stereo matching	Only in model "T" and upon request	
Switch	No switch	
Nut & washer	Without nut and washer	

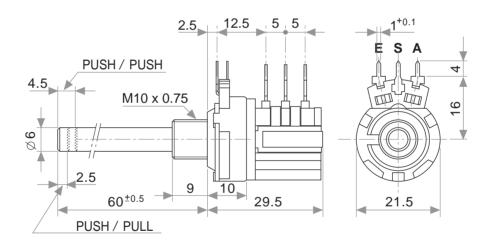
### **DIMENSIONS** \*

### **CP-21**





## CP-21 with switch



(\*) For more detailed information see T-21 data sheet.

TESTS		TYPICAL VARIATIONS
ELECTRICAL LIFE	1.000 h. @ 70°C	± 5 %
MECHANICAL LIFE: POT.	50.000 CYCLES	± 5 %
TCR	-40°C; +90°C (-40°F; +194°F)	±350 ppm /°C
THERMAL CYCLING	16 h. @ 85°C; 2h. @ −25°C	± 5 %
DAMP HEAT	500 h. @ 40°C @ 95% HR	± 5 %
VIBRATION (for each plane X,Y,Z)	2 h. @ 10 Hz 55 Hz.	± 3 %

NOTE: Out of range values may not comply these results.

## **PACKAGING**

Boxes of 260 x 170 x 110: 150 Singl. Pots.

