PIHER



CP-21 21 mm Cermet Potentiometer

FEATURES

- 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:
- Electrical rotation angle:
- Operating torque:

- Max. stop torque:

0.5 to 1.5 l (0.7 to 2.1	
> 80 Ncm	(> 112 in-oz)

 $310^{\circ} \pm 5^{\circ}$

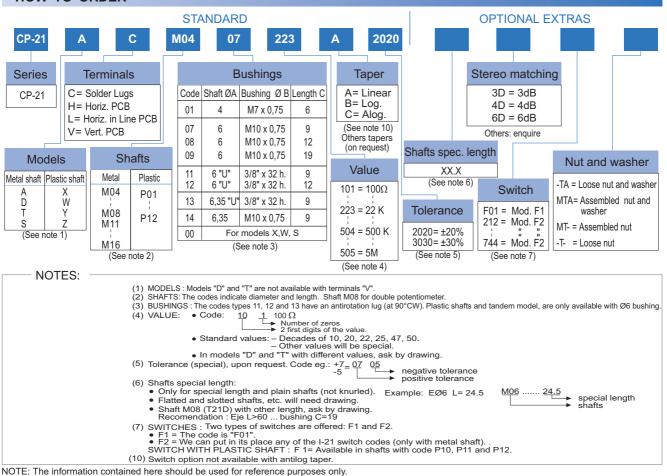
290° ± 20°

ELECTRICAL SPECIFICATIONS

- Range of values (*)
- $100\Omega \le \text{Rn} \le 5 \text{ M}$ (Decad. 1.0 2.0 2.2 2.5 4.7 5.0) - Tolerance (*): $100\Omega \le \text{Rn} \le 1M \Omega$ $\pm 20\%$
- $1M\Omega < Rn \le 5M$ $\pm 30\%$ - 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 0.5% Rn (5 Ω min.)
- Equivalent noise resistance: \leq 3% Rn (3 Ω min.)
- Breakdown voltage: > 750 VAC.
- Operating temperature: -40°C; + 90°C (-40°F;194°F)

MEGGITT

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



ISO TS 16949 / ISO 14001 / ISO 9001 www.piher.net

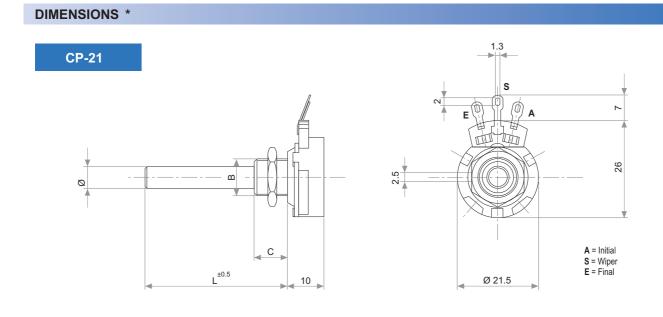
HOW TO ORDER

STANDARD OPTIONS

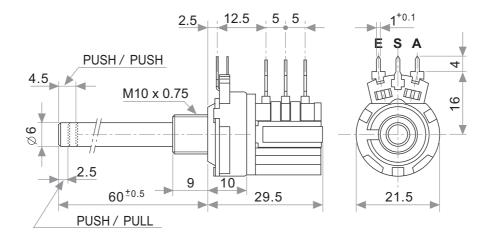
CP-21 A C + DRAWING NUMBER (Max. 16 digits)

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



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.