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:

HOW TO ORDER

0.5 to 1.5 Ncm. (0.7 to 2.1 in-oz)
> 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 (*): 1000 < $\text{Rn} \le 1M \Omega$ + 20%
- $\begin{array}{lll} \mbox{ Tolerance (*): } 100\Omega \leq Rn \leq 1M \ \Omega & \mbox{ transmit 20%} \\ 1M\Omega < Rn \leq 5M & \mbox{ transmit 20%} \\ \mbox{ Max. Voltage: } 500 \ VDC \ (lin); \mbox{ 250 \ VDC \ (no \ lin)} \end{array}$
- 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 $\Omega.$

STANDARD OPTIONAL EXTRAS CP-21 A C M06 07 223 A 2020					
Series Terminals Bushings Taper Stereo matching					
CP-21C = Solder Lugs H = Horiz. PCB V = Vert. PCBCodeShaft \emptyset ABushing \emptyset BLength CA = Linear B Length C3D = 3dB 4D = 4dB C = Alog. (See note 10) Others tapersC = Alog. V = Vert. PCB096M10 x 0,7519See note 10) Others tapers3D = 6dB					
Models Shafts 11 12 6 "U" 6 "U" 3/8" x 32 h. 3/8" x 32 h. 9 12 (on request) Shafts spec. length Nut and wash					
Metal shaftPlastic shaftMetalPlastic13 $6,35$ "U" $3/8$ " x 32 h.9To be the control of the control o					
$\begin{array}{c c c c c c c c c c c c c c c c c c c $					
(See note 2) 505 = 5M (See note 5) (See note 7) NOTES: (See note 4) (See note 4)					
 NOTES: (1) MODELS: Models "D" and "T" are not available with terminals "V". (2) SHAFTS: The codes indicate diameter and length. Shaft M08 for double potentiometer. (3) BUSHINGS: The codes types 11, 12 and 13 have an antirotation lug (at 90°CW). Plastic shafts and tandem model, are only available with Ø6 bushing. (4) VALUE: • Code: 10 1 100 Ω • Standard values: – Decades of 10, 20, 22, 25, 47, 50. - Other values will be special. • In models "D" and "T" with different values, ask by drawing. (5) Tolerance (special), upon request. Code eg.: +7 = 07 05 rositive tolerance (6) Shafts special length: • Only for special length: • Shaft M08 (T21D) with other length, ask by drawing. • Shaft M08 (T21D) with other length, ask by drawing. (7) SWUTCHES: Uno three of excitences of excitenc					
 (7) SWITCHES : Two types of switches are offered: F1 and F2. F1 = The code is "F01". F2 = We can put in its place any of the I-21 switch codes (only with metal shaft). SWITCH WITH PLASTIC SHAFT : F 1= Available in shafts with code P10, P11 and P12. 					
(10) Switch option not available with antilog taper.					

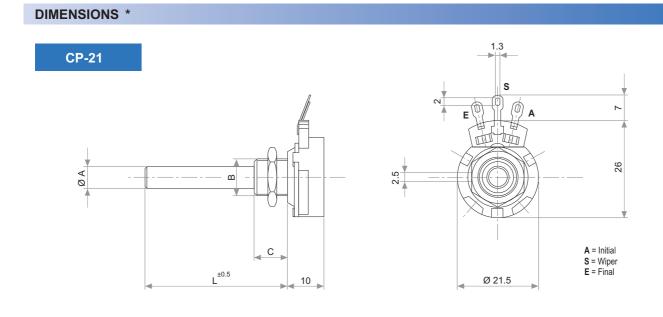
NOTE: The information contained here should be used for reference purposes only.

STANDARD OPTIONS

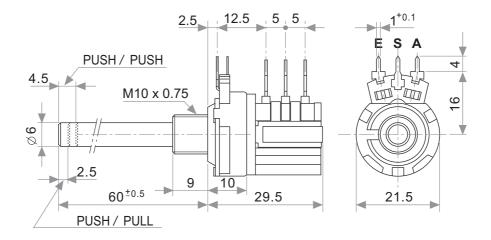
CP-21 A C + DRAWING NUMBER (Max. 16 digits)

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.