## 1/4" Square

## Multiturn

## Surface Mount <br> Cermet Trimming

## Potentiometer

## electrical



| Standard Resistance Range, Ohms | 10 to 1 Meg |
| :--- | ---: |
| Standard Resistance Tolerance | $\pm 10 \%$ |
| Input Voltage, Maximum | 200 Vdc or rms not to exceed power rating |
| Slider Current, Maximum | 100 mA or within rated power, whichever is less |
| Power Rating, Watts | 0.25 at $85^{\circ} \mathrm{C}$ derating to 0 at $150^{\circ} \mathrm{C}$ |
| End Resistance, Maximum | 20 hms |
| Actual Electrical Travel, Turns, Nominal | 12 |
| Dielectric Strength | 900 Vrms |
| Insulation Resistance, Minimum | 1,000 Megohms |
| Resolution | Essentially infinite |
| Contact Resistance Variation, Maximum | $1 \%$ or 1 Ohms, whichever is greater |

## ENVIRONMENTAL

| Seal | $85^{\circ} \mathrm{C}$ Fluorinert® (No Leaks) |
| :---: | :---: |
| Temperature Coefficient, Maximum | $\pm 100 \mathrm{ppm} /{ }^{\circ} \mathrm{C}\left(<100 \mathrm{Ohms}= \pm 250 \mathrm{ppm} /{ }^{\circ} \mathrm{C}\right)$ |
| Operating Temperature Range | $-65^{\circ} \mathrm{C}$ to $+150^{\circ} \mathrm{C}$ |
| Thermal Shock | 5 cycles, $-65^{\circ} \mathrm{C}$ to $+150^{\circ} \mathrm{C}(1 \% \Delta \mathrm{RT}, 1 \% \Delta \mathrm{VR})$ |
| Moisture Resistance | Ten 24 hour cycles ( $1 \% \Delta R T$, IR 100 Megohms Min.) |
| Shock, 6ms Sawtooth | 100G's (1\% $\mathrm{RRT}^{\text {c }} 1 \% \Delta \mathrm{VR}$ ) |
| Vibration | 20G's, 10 to 2,000 Hz (1\% $\Delta \mathrm{RT}$, 1\% 4 VR ) |
| High Temperature Exposure | 250 hours at $150^{\circ} \mathrm{C}(2 \% \Delta \mathrm{RT}, 2 \% \Delta \mathrm{VR})$ |
| Rotational Life | 200 cycles ( $3 \% \Delta \mathrm{RT}$ ) |
| Load Life at 0.5 Watts | 1,000 hours at $85^{\circ} \mathrm{C}(2 \% \Delta \mathrm{RT})$ |
| Resistance to Solder Heat | $260^{\circ} \mathrm{C}$ for 10 sec . ( $1 \% \Delta \mathrm{RT}$ ) |
| Temperature Exposure, Maximum | $215^{\circ} \mathrm{C}$ for 3 min . ( $1 \% \Delta \mathrm{RT}$ ) |

## mechanical

| Mechanical Stops | Clutch action, both ends |
| :--- | ---: |
| Torque, Starting Maximum | 3 oz.-in. (0.021 N-m) |
| Weight, Nominal | .014 oz. $(.40$ grams $)$ |

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Specifications subject to change without notice.


## SIDE ADJUSTMENT (Inch/mm)

Model 84P


| 10 | 100 | 1 K | 10 K | 50 K | 250 K |
| :--- | :--- | :--- | :--- | :--- | :--- |
| 20 | 200 | 2 K | 20 K | 100 K | 500 K |
| 50 | 500 | 5 K | 25 K | 200 K | 1 Meg |

## PACKAGING

Standard: Tubes
All units oriented with \#1 pin to same side.

|  | Pin Style |  | P | W/X |
| :---: | :---: | :---: | :---: | :---: |
| Magazine | Width | = | 0.47 "(11.93mm) | 0.37 "(9.39mm) |
|  | Height | = | 0.32 "(8.13mm) | 0.47 "(11.93mm) |
|  | Length | = | 14.5 " 368 mm ) | 14.5 "(368mm) |
|  |  |  |  | 16.5 "(429mm) |
|  | Capacity | = | 50 Units | 50 Units |

Option: Embossed Tape \& Reel (84P \& 84W only)
All units oriented with \#1 pin to the right of the direction of feed.

|  | Pin Style |  | $=$ | $\mathbf{P}$ |
| :--- | :--- | :--- | :--- | :--- |
| Tape | Width | $=$ | 16 mm | $\mathbf{y}$ |
|  | Sprocket | $=$ | 4 mm pitch | 4 mm pitch |
|  | Capacity | $=$ | 500 Units | 400 Units |
|  | Diameter | $=$ | $13^{\prime \prime}(330 \mathrm{~mm})$ | $13^{\prime \prime}(330 \mathrm{~mm})$ |

## ORDERING INFORMATION

| Standard: |  |
| :--- | :--- | :--- |
|  | Model Series |
|  | Pin Style |
|  | Resistance Prefix |

## CIRCUIT DIAGRAM




Bi fechnologies

