

| Standard Resistance Range, Ohms | 10 to 2 Meg |
| :--- | ---: |
| Standard Resistance Tolerance | $\pm 10 \%(<100$ Ohms $= \pm 20 \%)$ |
| Input Voltage, Maximum | 300 Vdc or rms not to exceed power rating |
| Slider Current, Maximum | 100 mA or within rated power, whichever is less |
| Power Rating, Watts | 1.0 at $70^{\circ} \mathrm{C}$ derating to 0 at $125^{\circ} \mathrm{C}$ |
| End Resistance, Maximum | 20 hms |
| Actual Electrical Travel, Turns, Nominal | 22 |
| Dielectric Strength | 500 Vrms |
| Insulation Resistance, Minimum | 1,000 Megohms |
| Resolution | Essentially infinite |
| Contact Resistance Variation, Maximum | $1 \%$ or 1 Ohm, whichever is greater |

## ENVIRONMENTAL

| Seal | $85^{\circ} \mathrm{C}$ Fluorinert® (No Leaks) |
| :---: | :---: |
| Temperature Coefficient, Maximum | $\pm 100 \mathrm{ppm} /{ }^{\circ} \mathrm{C}$ |
| Operating Temperature Range | $-55^{\circ} \mathrm{C}$ to $+125^{\circ} \mathrm{C}$ |
| Thermal Shock | 5 cycles, $-55^{\circ} \mathrm{C}$ to $+125^{\circ} \mathrm{C}(1 \% \Delta \mathrm{RT}, 1 \% \Delta \mathrm{VR})$ |
| Moisture Resistance | Ten 24 hour cycles ( $1 \% \Delta \mathrm{RT}$, IR 1,000 Megohms Min.) |
| Shock, 6ms Sawtooth | 100G's (1\% $\Delta \mathrm{RT}, 1 \% \Delta \mathrm{VR})$ |
| Vibration | 20G's, 10 to 2,000 Hz (1\% $\Delta \mathrm{RT}, 1 \% \Delta \mathrm{VR})$ |
| High Temperature Exposure | 250 hours at $125^{\circ} \mathrm{C}(2 \% \Delta \mathrm{RT}, 2 \% \Delta \mathrm{VR})$ |
| Rotational Life | 200 cycles ( $3 \% \Delta \mathrm{RT}$ ) |
| Load Life at 0.5 Watts | 1,000 hours at $70^{\circ} \mathrm{C}(2 \% \Delta \mathrm{RT})$ |
| Resistance to Solder Heat | $260^{\circ} \mathrm{C}$ for $10 \mathrm{sec} .(1 \% \Delta \mathrm{RT})$ |

## MECHANICAL

| Mechanical Stops | Clutch Action, both ends |
| :--- | ---: |
| Torque, Starting Maximum | $50 z .-\mathrm{in} .(0.035 \mathrm{~N}-\mathrm{m})$ |
| Weight, Nominal | .09 oz. (2.6 grams) |

Fluorinert $®$ is a registered trademark of 3M Company.
Specifications subject to change without notice.

## Model 78P



Note: Model 78P dimensions applicable to all other models except as noted.


Model 56BW (Adapter Only)


Use .22/5.613 Dia. Min. Mounting Hole
Lock Washer, Panel Nut, Sealing Washer \& Mounting Screws Provided


Model 78LBW (Adapter Pre-Assembled with Trimmer)


Model 78SBW (Adapter Pre-Assembled with Trimmer)


Bif fechnologies

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

## PACKAGING

Standard: Boxes Capacity $=25$ Units

## ORDERINC INFORMATION



## CIRCUIT DIAGRAM

(1)


## NOTES

Metric equivalents, based on 1 inch $=25.4 \mathrm{~mm}$ are rounded to the same number of significant figures as in the original English units and are provided for general information only

