MODEL 89 3/4" Rectangular

Multiturn

Cermet Trimming Potentiometer



ELECTRICAL

| Standard Resistance Range, Ohms | 10 to 2Meg |
|--|--|
| Standard Resistance Tolerance | ±10% (<100 0hms = ±20%) |
| Input Voltage, Maximum | 200 Vdc or rms not to exceed power rating |
| Slider Current, Maximum | 100mA or within rated power, whichever is less |
| Power Rating, Watts | 0.75 at 85°C derating to 0 at 125°C |
| End Resistance, Maximum | 2 Ohms |
| Actual Electrical Travel, Turns, Nominal | 20 |
| Dielectric Strength | 1,000 Vrms |
| Insulation Resistance, Minimum | 1,000 Megohms |
| Resolution | Essentially infinite |
| Contact Resistance Variation, Maximum | 1% or 1 Ohm, whichever is greater |

ENVIRONMENTAL

| 85°C Fluorinert® (No Leaks) |
|--|
| ±100ppm/°C |
| −55°C to +125°C |
| 5 cycles, -55°C to +125°C (1% ΔRT, 1% ΔVR) |
| Ten 24 hour cycles (1% Δ RT, IR 100 Megohms Min.) |
| 100G's (1% ΔRT, 1% ΔVR) |
| 20G's, 10 to 2,000 Hz (1% ΔRT, 1% ΔVR) |
| 250 hours at 125°C (2% ΔRT, 2% ΔVR) |
| 200 cycles (3% ΔRT) |
| 1,000 hours at 70°C (2% ΔRT) |
| 260°C for 10 sec. (1% ΔRT) |
| |

MECHANICAL

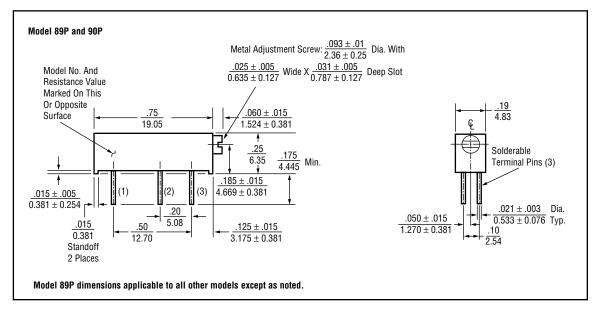
| Mechanical Stops | Clutch Action, both ends |
|--------------------------|--------------------------|
| Torque, Starting Maximum | 5 ozin. (0.035 N-m) |
| Weight, Nominal | .05 oz. (1.4 grams) |

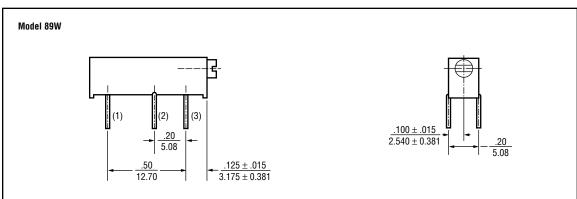
Fluorinert® is a registered trademark of 3M Company. Specifications subject to change without notice.

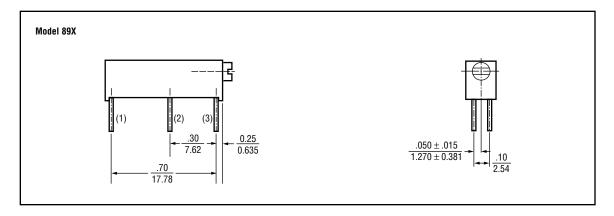


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LOW PROFILE (Inch/mm)

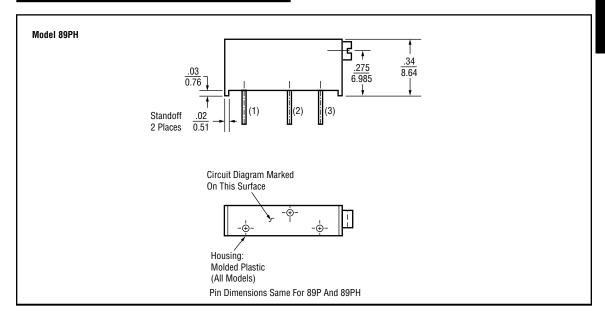


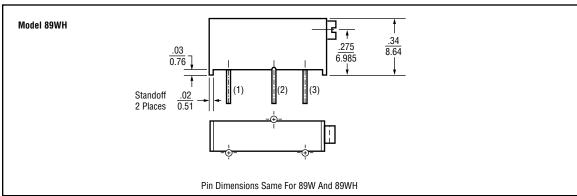


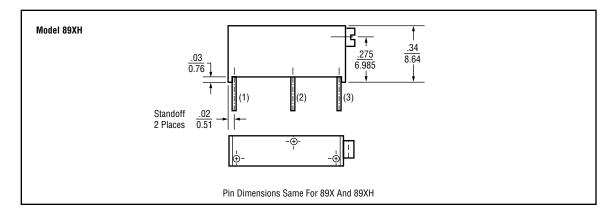




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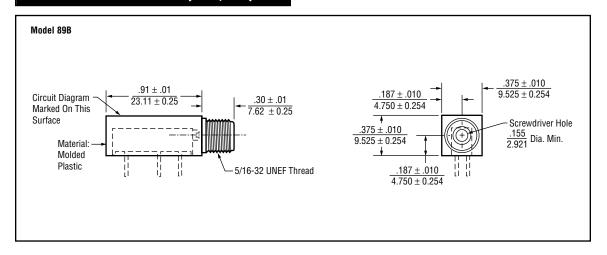






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PANEL MOUNT ADAPTER (Inch/mm)



STANDARD RESISTANCE VALUES, OHMS

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

PACKAGING

Standard: Boxes

Capacity = 100 Units (89P)

50 Units (All other styles)

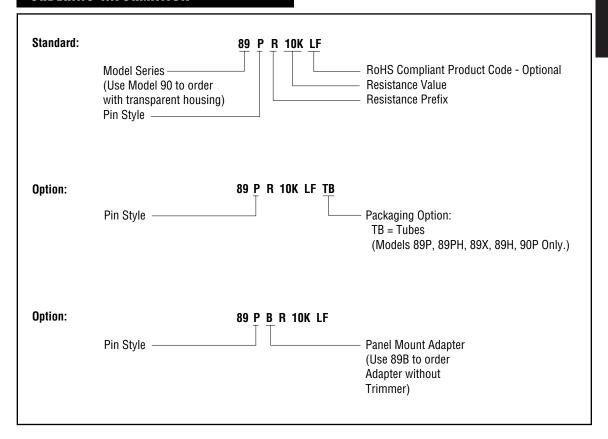
Option: Tubes (Models 89P, 89PH, 89X, 89XH and 90P only.)

All units oriented with #1 pin to same side.

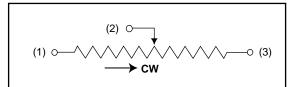
| Magazine | Width | = | 0.28" | |
|----------|----------|---|----------|--|
| | Height | = | 0.65" | |
| | Length | = | 21.5" | |
| | Capacity | = | 25 Units | |



1-80



CIRCUIT DIAGRAM



NOTES

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

Tolerances unless otherwise specified: Linear = \pm .01 inches (.25mm) Angular = \pm 2 degrees



