# **Multi-Turn Trimmer**

# Model 89 and 90



#### Features:

- 1/4" square
- Surface mount
- Cermet



## **Electrical**

Standard Resistance Range, Ohms	10 to 2Meg
Standard Resistance Tolerance	±10% (<100 Ohms = ±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**

Seal	85°C Fluorinert® (No Leaks)
Temperature Coefficient, Maximum	±100ppm/°C
Operating Temperature Range	−55°C to +125°C
Thermal Shock	5 cycles, -55°C to +125°C (1% ΔRT, 1% ΔVR)
Moisture Resistance	Ten 24 hour cycles (1% $\Delta$ RT, IR 100 Megohms Min.)
Shock, 6ms Sawtooth	100G's (1% ΔRT, 1% ΔVR)
Vibration	20G's, 10 to 2,000 Hz (1% ΔRT, 1% ΔVR)
High Temperature Exposure	250 hours at 125°C (2% ΔRT, 2% ΔVR)
Rotational Life	200 cycles (3% ΔRT)
Load Life at 0.75 Watts	1,000 hours at 70°C (2% ΔRT)
Resistance to Solder Heat	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)

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### **Packaging Information**

Standard: Boxes

Capacity = 100 Units (89P)

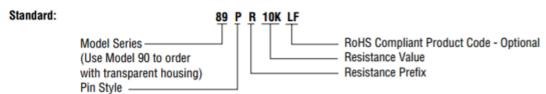
50 Units (All other styles)

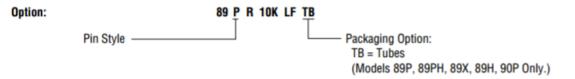
Option: Tubes (Models 89P, 89PH, 89X, 89XH and 90P only.)

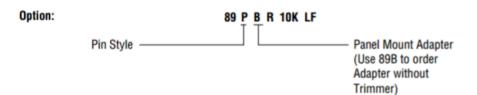
All units oriented with #1 pin to same side.

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

## **Ordering Information**







#### **Standard Resistance Values**

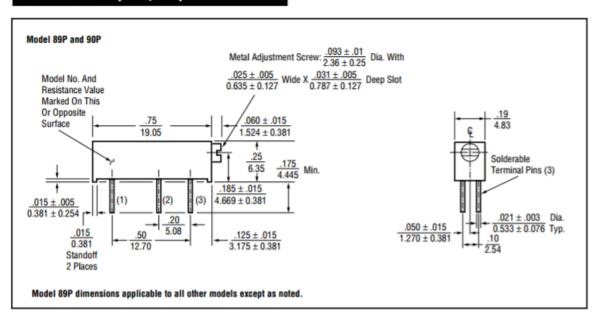
10	200	5K	50K	500K
20	500	10K	100K	1Meg
50	1K	20K	200K	2Meg
100	2K	25K	250K	

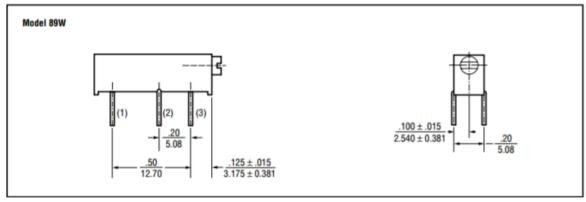
### Model 89 and 90

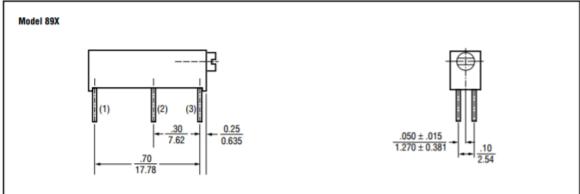


# **Outline Drawings**

#### LOW PROFILE (Inch/mm)



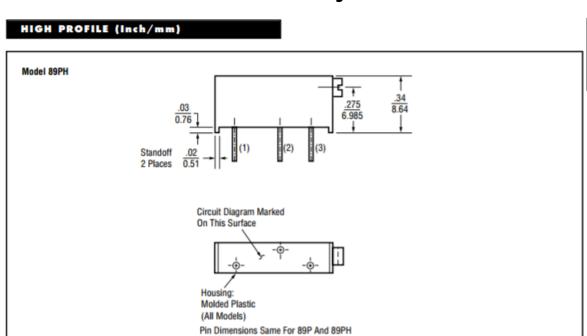


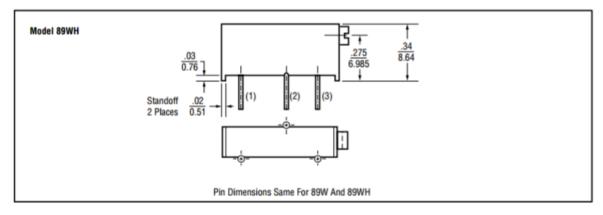


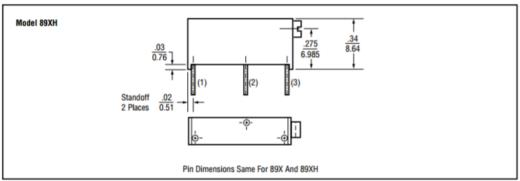
# Model 89 and 90



# **Outline Drawings**





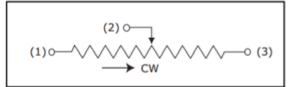


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#### CIRCUIT DIAGRAM



#### 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 = ± .01 inches (.25mm) Angular = ± 2 degrees

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