

MODEL 89

3/4" Rectangular

Multiturn

Cermet Trimming

Potentiometer

1



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

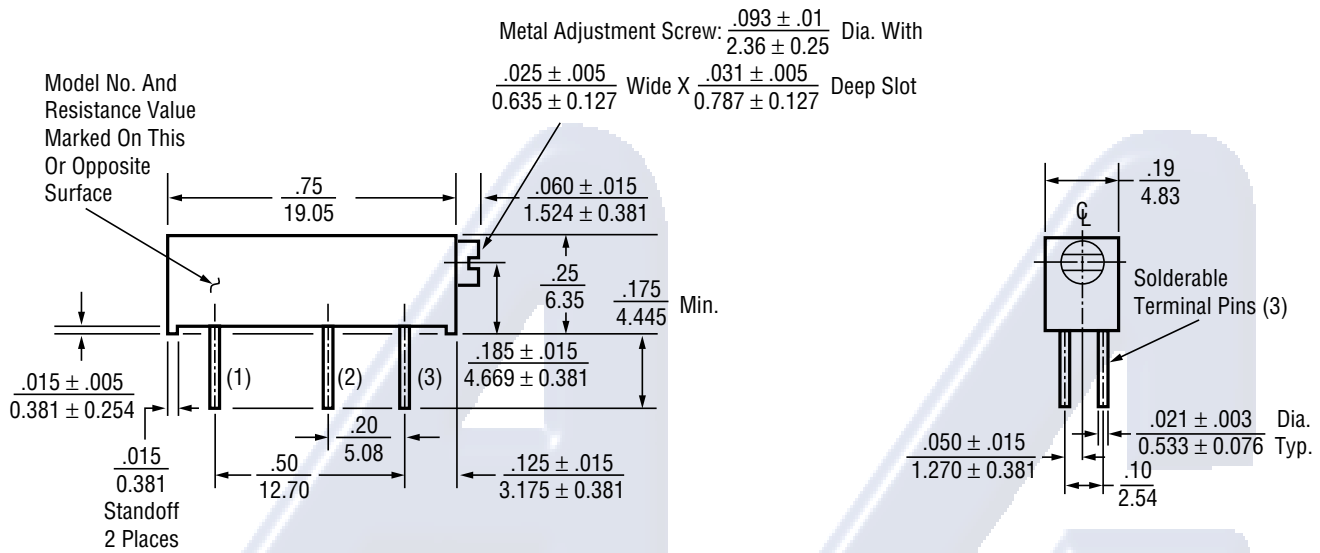
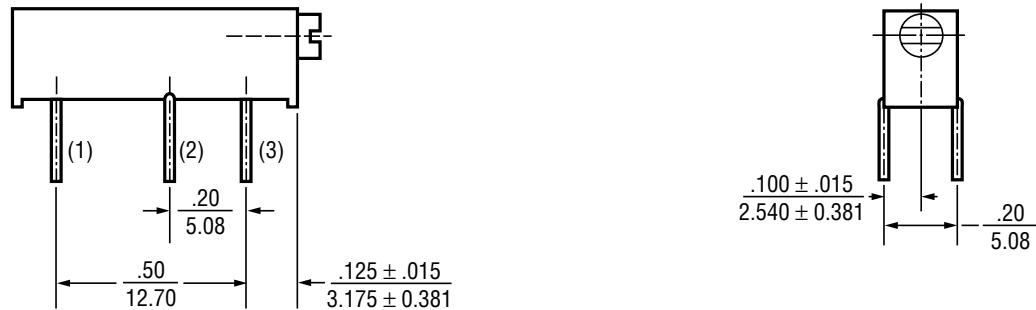
ENVIRONMENTAL

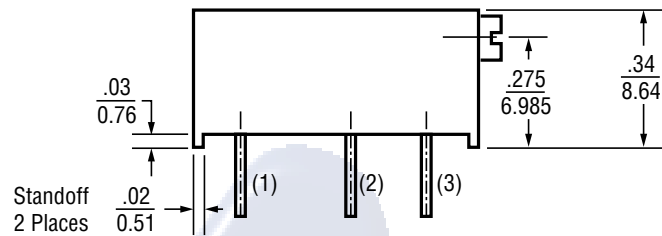
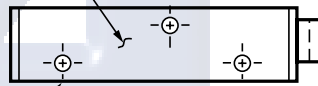
Seal	85°C Fluorinert® (No Leaks)
Temperature Coefficient, Maximum	±100ppm/°C
Operating Temperature Range	-55°C to +125°C
Thermal Shock	5 cycles, -55°C to +125°C (1% ΔRT, 1% ΔVR)
Moisture Resistance	Ten 24 hour cycles (1% ΔRT, IR 100 Megohms Min.)
Shock, 6ms Sawtooth	100G's (1% ΔRT, 1% ΔVR)
Vibration	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 0.5 Watts	1,000 hours at 70°C (2% ΔRT)
Resistance to Solder Heat	260°C for 10 sec. (1% ΔRT)

MECHANICAL

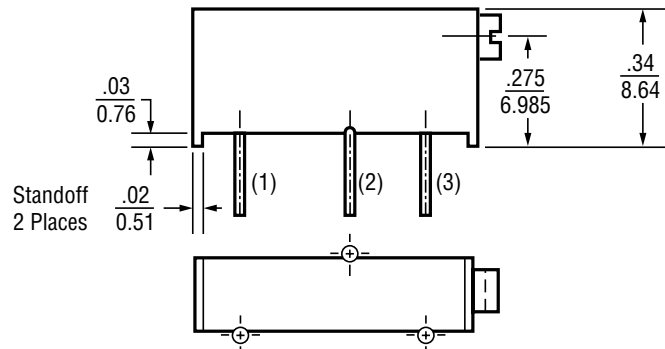
Mechanical Stops	Clutch Action, both ends
Torque, Starting Maximum	5 oz.-in. (0.035 N-m)
Weight, Nominal	.05 oz. (1.4 grams)

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

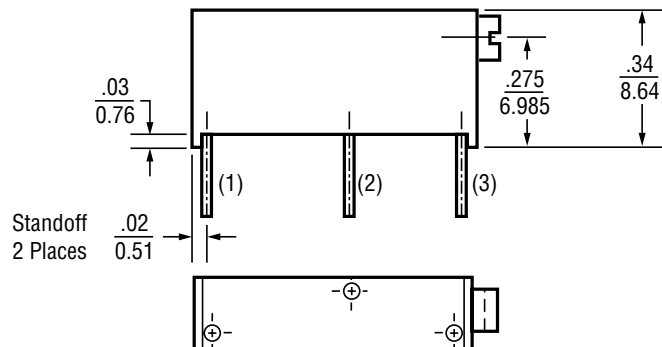
LOW PROFILE (Inch/mm)**Model 89P and 90P****Model 89W****Model 89X**

HIGH PROFILE (Inch/mm)**1****Model 89PH**Circuit Diagram Marked
On This SurfaceHousing:
Molded Plastic
(All Models)

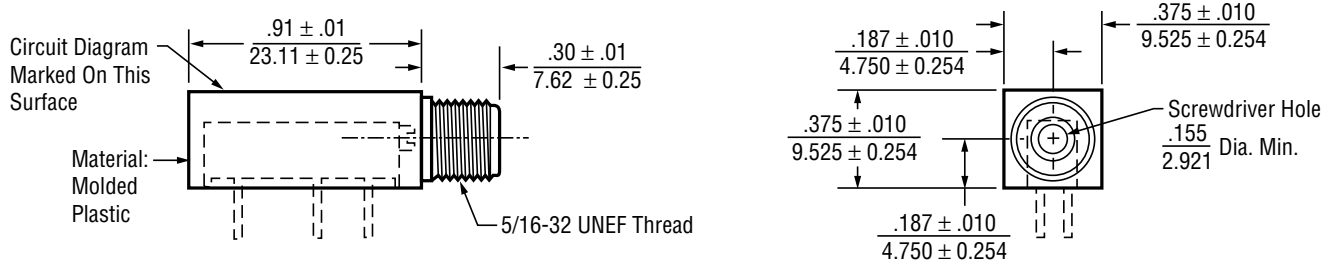
Pin Dimensions Same For 89P And 89PH

Model 89WH

Pin Dimensions Same For 89W And 89WH

Model 89XH

Pin Dimensions Same For 89X And 89XH

PANEL MOUNT ADAPTER (Inch/mm)**Model 89B****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

All units oriented with #1 pin to same side.

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

ORDERING INFORMATION**1****Standard:**

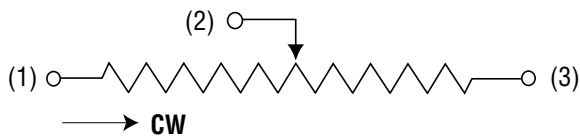
Model Series _____ **89** **P** **R** **10K**
 (Use Model 90 to order
 with transparent housing)
 Pin Style _____ Resistance Value
 Resistance Prefix

Option:

Pin Style _____ **89** **P** **R** **10K** **TB**
 Packaging Option:
 TB = Tubes

Option:

Pin Style _____ **89** **P** **B** **R** **10K**
 Panel Mount Adapter
 (Use 89B to order
 Adapter without
 Trimmer)

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 = ± 2 degrees

