



MODEL 89

3/4" Rectangular Multiturn Cermet T rimming Potentiometer



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% RT, 1% VR)
Moisture Resistance	Ten 24 hour cycles (1% RT, IR 100 Megohms Min.)
Shock, 6ms Sawtooth	100G's (1% RT, 1% VR)
Vibration	20G's, 10 to 2,000 Hz (1% RT, 1% VR)
High Temperature Exposure	250 hours at 125°C (2% RT, 2% VR)
Rotational Life	200 cycles (3% RT)
Load Life at 0.5 Watts	1,000 hours at 70°C (2% RT)
Resistance to Solder Heat	260°C for 10 sec. (1% RT)

MECHANICAL

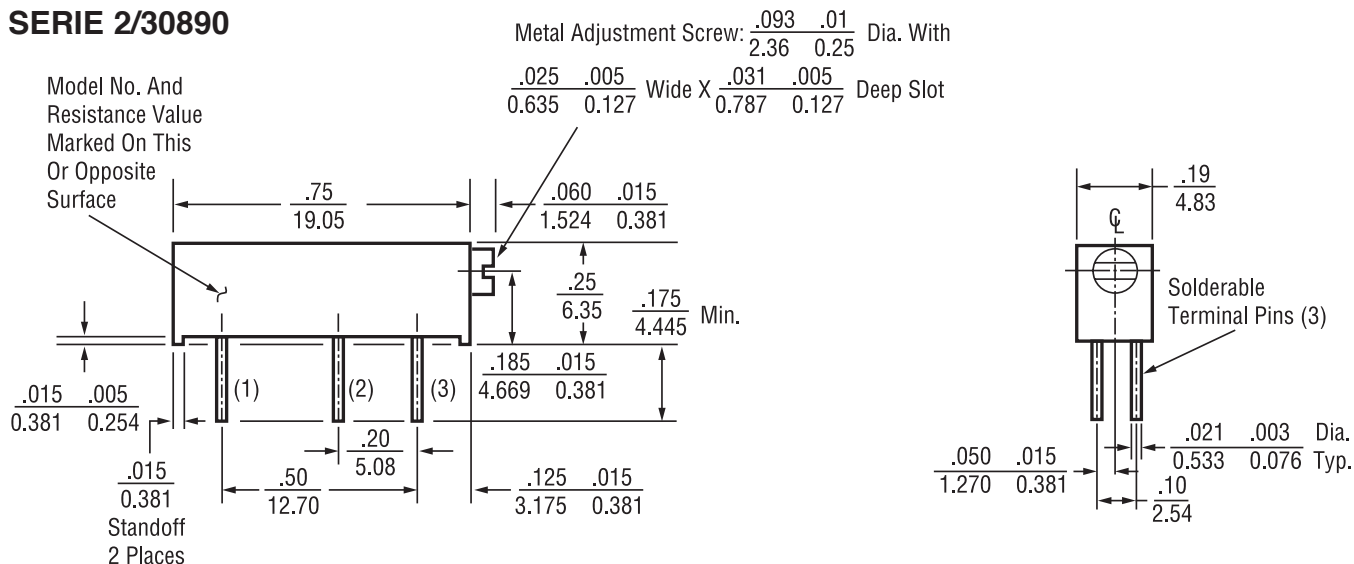
Mechanical Stops	Clutch Action, both ends
Torque, Starting Maximum	5 oz.-in. (0.035 N-m)
Weight, Nominal	.05 oz. (1.4 grams)

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

LOW PROFILE (Inch/mm)

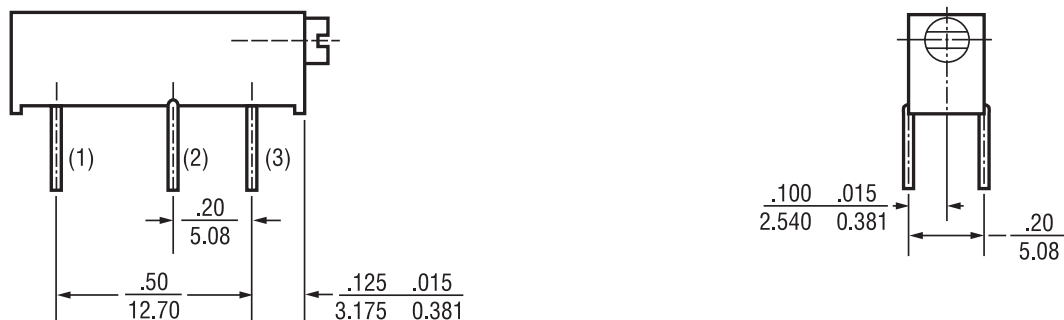
Model 89P

SERIE 2/30890

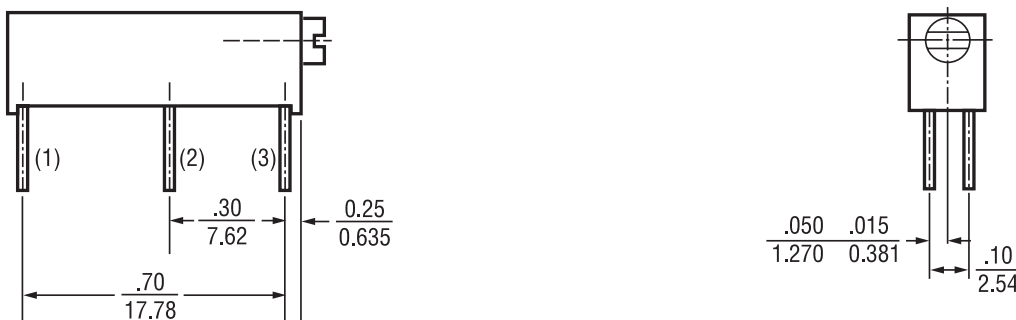


Model 89P dimensions applicable to all other models except as noted.

Model 89W

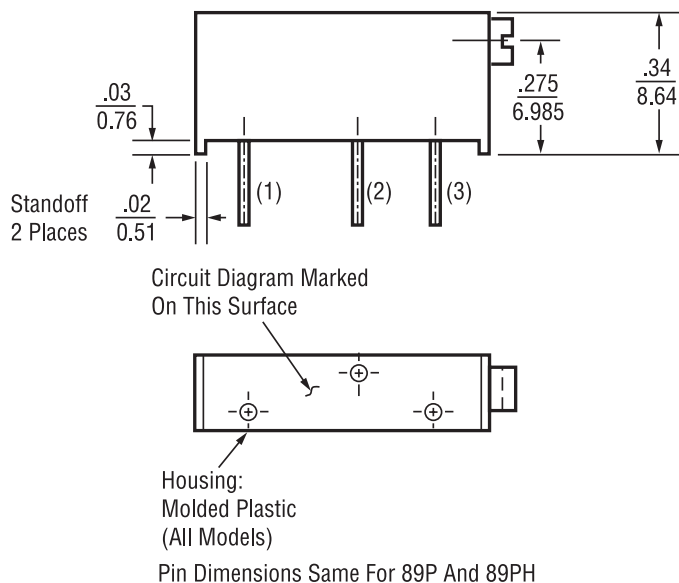


Model 89X

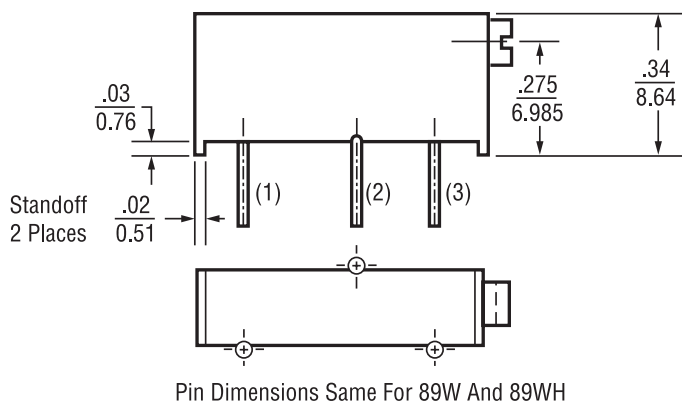


HIGH PROFILE (Inch/mm)

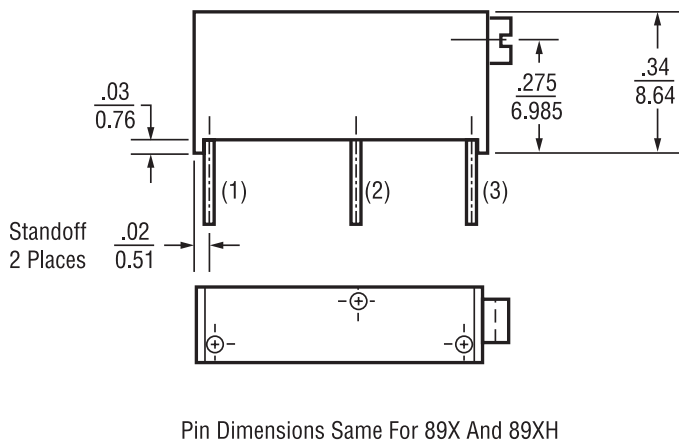
Model 89PH



Model 89WH

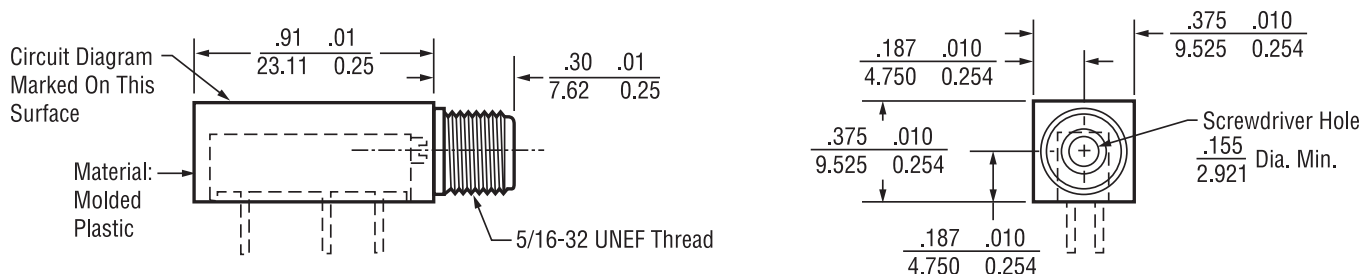


Model 89XH



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 (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:

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

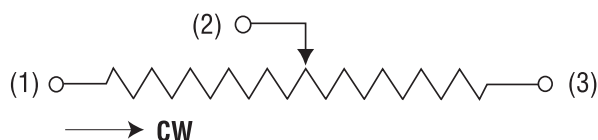
Option:

Pin Style _____ 89 P R 10K TB _____
 Packaging Option:
 TB = Tubes
 (Models 89P, 89PH, 89X, 89H, 90P Only.)

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

