# MODEL 89

3/4" Rectangular Multiturn Cermet Trimming 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
Actual Electrical Travel, Turns, Nominal Dielectric Strength Insulation Resistance, Minimum Resolution	20 1,000 Vrms 1,000 Megohms Essentially infinite

### 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% ∆RT)
Load Life at 0.75 Watts	1,000 hours at 70°C (2% ∆RT)
Resistance to Solder Heat	260°C for 10 sec. (1% ΔRT)

#### MECHANICAL

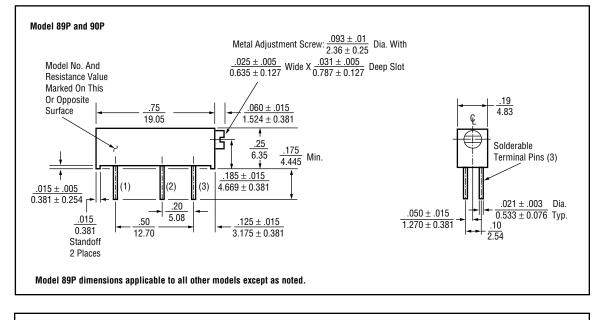
Mechanical Stops	Clutch Action, both ends
Torque, Starting Maximum	5 ozin. (0.035 N-m)
Weight, Nominal	.05 oz. (1.4 grams)

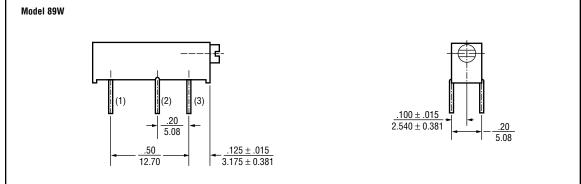
Fluorinert® is a registered trademark of 3M Company. Specifications subject to change without notice.

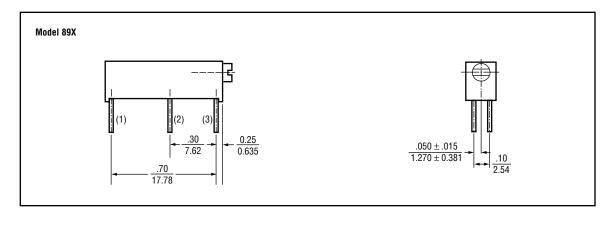


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#### LOW PROFILE (Inch/mm)



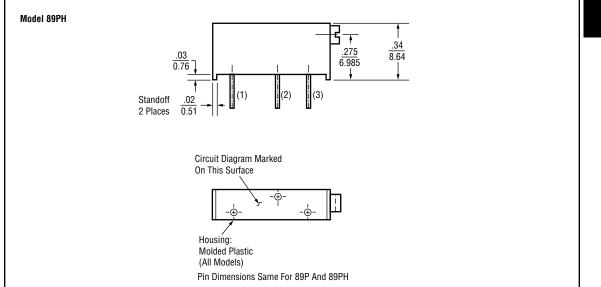


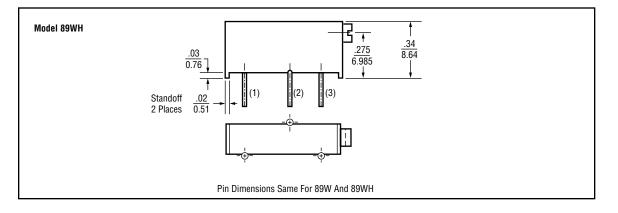


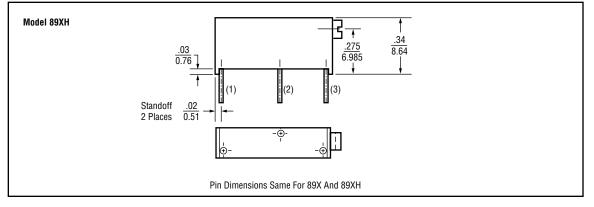




#### HIGH PROFILE (Inch/mm)





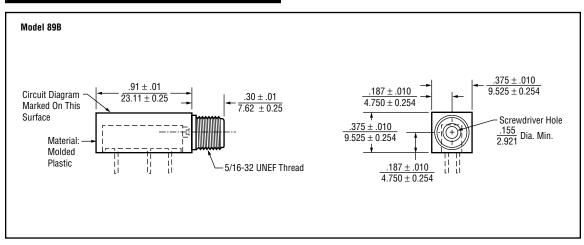




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#### PANEL MOUNT ADAPTER (Inch/mm)



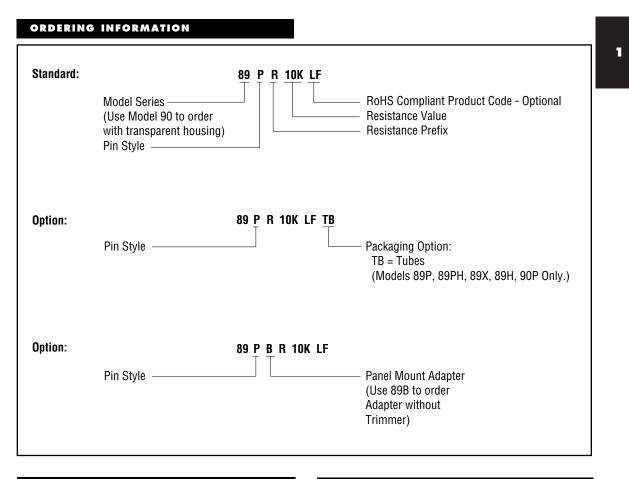
## STANDARD RESISTANCE VALUES, OHMS

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

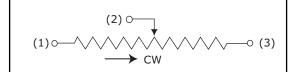
Standard:	Boxes			
		Capacity	=	100 Units (89P)
				50 Units (All other styles)
Option:	Tubes (Mo	dels 89P, 89PH	I, 89X, 89XH	and 90P only.)
-		iented with #1		
	Magazine	Width	=	0.28"
				0.20
		Height	=	0.65"
			=	



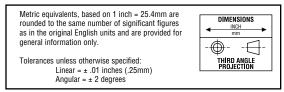
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#### CIRCUIT DIAGRAM



#### NOTES





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