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% Δ 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)

General Note

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Model 89 and 90



Packaging Information							
	Standard:	Boxes					
			Capacity	=	100 Units (89P)	
					50 Units (All ot	her 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	Inform	ation		
Standard:			_				
Stanuaru.			89 P R T T T				
	Model Seri					ant Product Code - Optional	
		90 to order			Resistance Va		
		parent housir	ig) 🔰		—— Resistance Pro	enx	
	Thir Otyle -						
Option:	Pin Style		89 P R 1	IOK LF TB	—— Packaging Opt TB = Tubes	tion: , 89PH, 89X, 89H, 90P Only	.)
Option:	Pin Style		89 P B F	10K LF	—— Panel Mount A (Use 89B to or Adapter withou Trimmer)	rder	
		Sta	ndard Re	sistanc	e Values		
	10	200		5K	50K	500K	
	20	500		10K	100K	1Meg	
	50	1K		20K	200K	2Meg	
	100	2K		25K	250K	-	

General Note

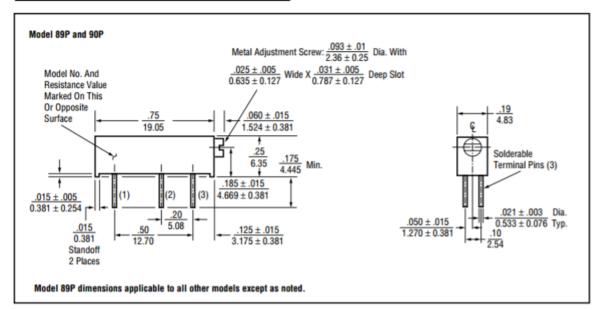
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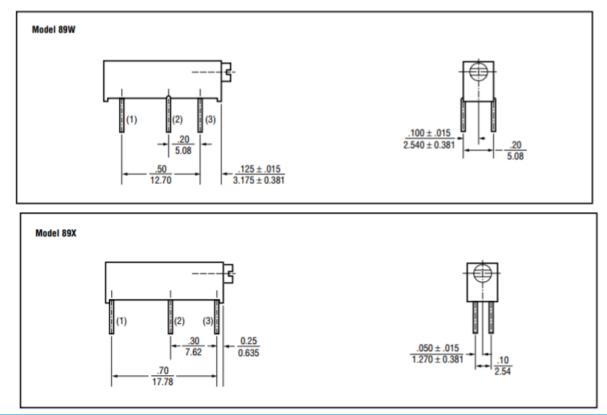
Model 89 and 90



Outline Drawings

LOW PROFILE (Inch/mm)





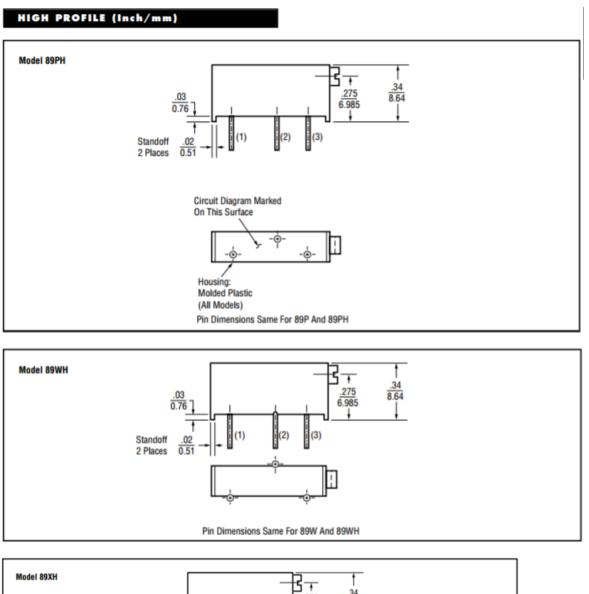
General Note

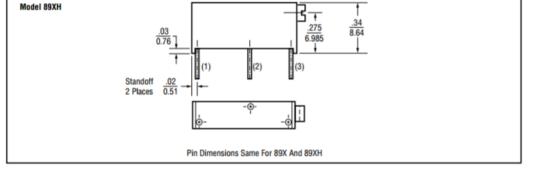
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Model 89 and 90



Outline Drawings



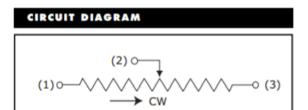


General Note

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Model 89 and 90





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



General Note

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Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

TT Electronics:

89PR100
89PR100KLF
89PR100LF
89PR10K
89PR1KLF
89PR200
89PR20KLF
89PR100LFTB
89PR10KLF
89PR10KLF
89PR10KLF
89PR10KLF
89PR10KLF
89PR10KLF
89PR20KLF
89PR20KLF
89PR20KLF
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