Model 89 and 90

Features:

- 1/4" square
- Surface mount
- Cermet





Electrical

Standard Resistance Range, Ohms	10 to 2Meg
Standard Resistance Tolerance	±10% (<100 0hms = ±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% ∆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

TT Electronics reserves the right to make changes in product specification without notice or liability. All information is subject to TT Electronics' own data and is considered accurate at time of going to print.

Model 89 and 90



Packaging Information									
	Standard:	Boxes							
			Capacity	=	100 Units (89P)				
					50 Units (All other	styles)			
	Option:	Tubes (Mo	dels 89P, 89PH	, 89X, 89XH a	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 lı	nformatio	on				
Standard:			89 P R 1						
oluniuu.			Ť Ť Ť Ť	ΤŤ					
	Model Ser					Product Code - Optional			
	•	I 90 to order parent housin			 Resistance Value Resistance Prefix 				
			(y)						
Option:	Pin Style		89 P R 1	OK LF <u>TB</u>	— Packaging Option TB = Tubes (Models 89P, 89	: 9PH, 89X, 89H, 90P Only.)			
Option:			89 P B R	10K LF					
	Pin Style				 Panel Mount Ada (Use 89B to order Adapter without Trimmer) 				
Standard Resistance 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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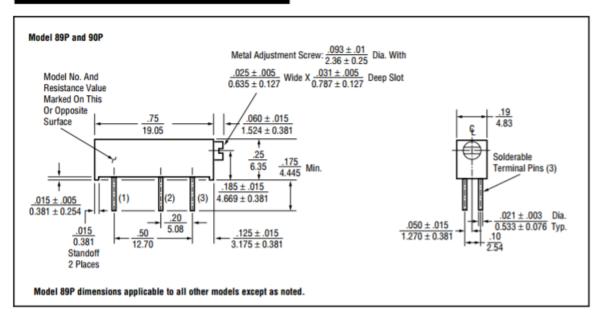
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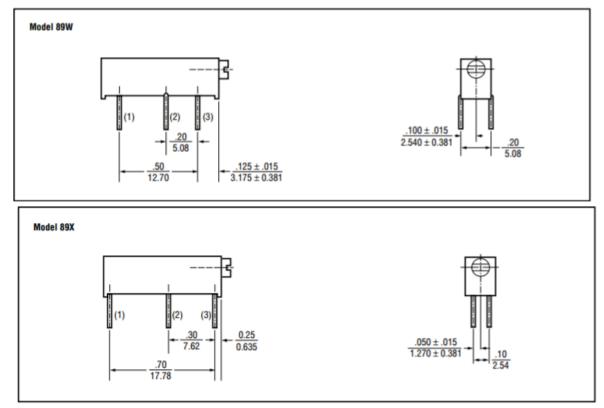


Model 89 and 90



LOW PROFILE (Inch/mm)





General Note

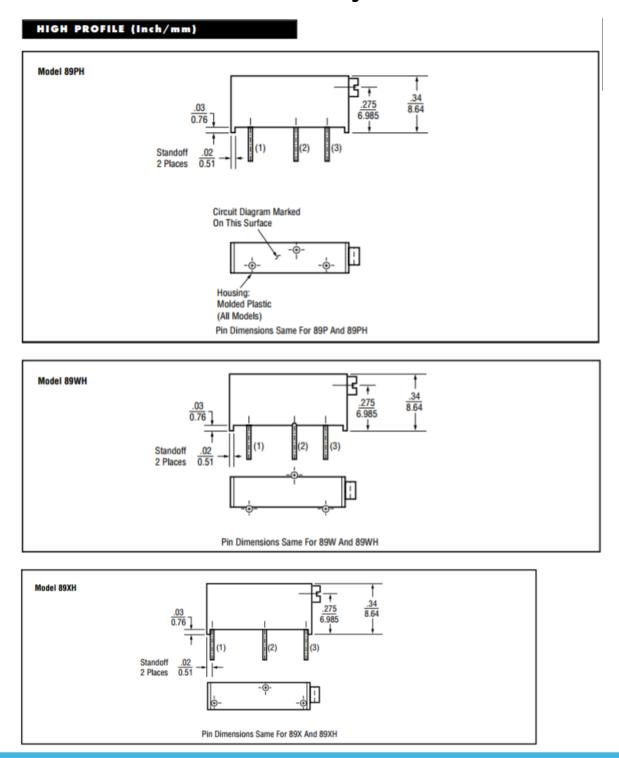
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Model 89 and 90



Outline Drawings



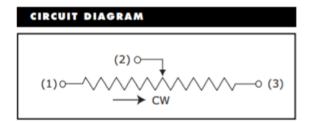
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Model 89 and 90



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



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89PR100 89PR100K 89PR100KLF 89PR100LF 89PR10K 89PR1K 89PR1KLF 89PR200 89PR20K 89PR20K 89PR20KLF 89PR25K 89PR2K 89PR2KLF 89PR50 89PR500 89PR500K 89PR500LF 89PR50K 89PR5K 89WR1K 89WR50K 89PHR2K 89PR10 89PR20 89PR250K 89WR200K 89WR250K 89XR2K 89XR5K 89PHR10KLF 89PHR1KLF 89PHR200LF 89PHR200KLF 89PHR500KLF 89PHR50KLF 89PR100LFTB 89PR1MEGLF 89PR200LFTB 89PR2KLFTB 89PR5KLFTB 89WHR1KLF 89WHR500KLF 89WR10KLF 89WR1KLF 89WR200LF 89WR250KLF 89WR25KLF 89WR2KLF 89WR500KLF 89WR50KLF 89WR10KLF 89WR1KLF 89WR200LF 89WR250KLF 89WR25KLF 89WR2KLF 89WR500KLF 89WR50KLF 89WR5KLF 89XR1KLF 89XR20KLF 89XR100LF 89XR100KLF 89XR10KLF 89XR10KLFTB 89XR20KLF 89XR500LF 89XR50KLF 89XR5KLF 89PR2MLF 89PR20LF 89PR200LF 89PR50KLF 89PR50LF 89PR50LF 89XR500KLF 89XR50KLF 89XR5KLF 89PR2MLF 89PR20LF 89PR200LF 89PR50KLF 89PR50LF 89PR50LF 89PR50KLF 89XR50KLF 89XR5KLF 89PR2MLF 89PR20LF 89PR200LF 89PR50KLF 89PR50LF 89PR50LF 89PR50KLF 89PR50KLF 89XR5KLF 89PR2MLF 89PR20LF 89PR200LF 89PR50KLF 89PR50LF 89PR50LF 89PR50KLF 89PR50KLF 89XR5KLF 89PR2MLF 89PR20LF 89PR200LF 89PR50KLF 89PR50LF 89PR50LF 89PR50KLF 89PR50KLF 89PR10KLF 89PR250KLF 89PR200KLF 89PR10LF 89PR10LF 89PR50KLF 89PR50KLFTB 89PR10KLFTB 89PR10KLFTB 89PR75KLF 89PR75KLF 89PR75KLF 89PR75KLF 89PR75KLF 89PR75KLFTB 89PR75KLFTB 89PR75KLFTB 89PR75KLF 89PR75KLF 89PR76KLFTB 89PR700LFTB