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% ART, 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% Δ 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)

Model 89 and 90



Packaging Information

Standard: Boxes

Capacity = 100 Units (89P)

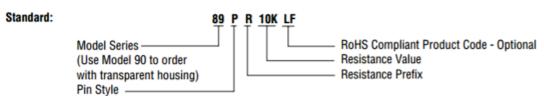
50 Units (All other styles)

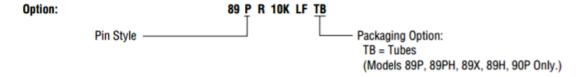
Option: Tubes (Models 89P, 89PH, 89X, 89XH and 90P only.)

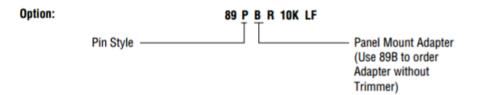
All units oriented with #1 pin to same side.

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

Ordering Information







Standard Resistance Values

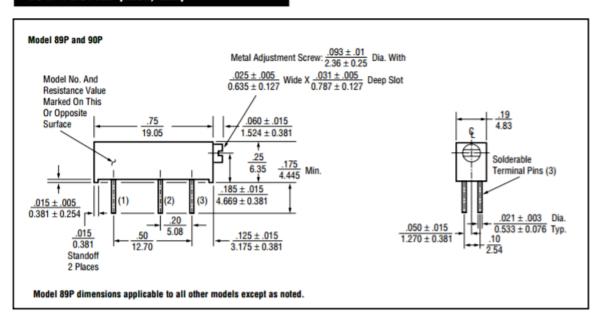
10	200	5K	50K	500K
20	500	10K	100K	1Meg
50	1K	20K	200K	2Meg
100	2K	25K	250K	

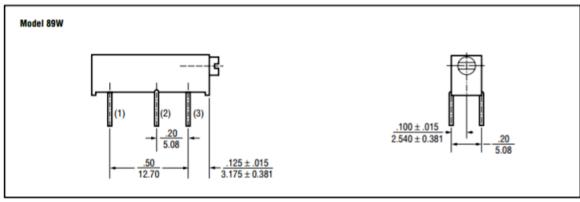
Model 89 and 90

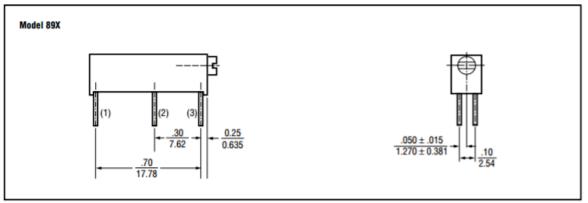


Outline Drawings

LOW PROFILE (Inch/mm)



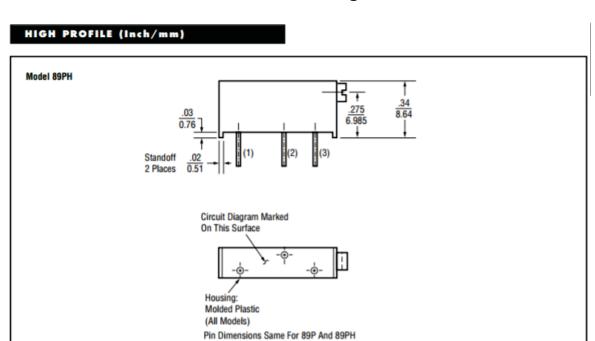


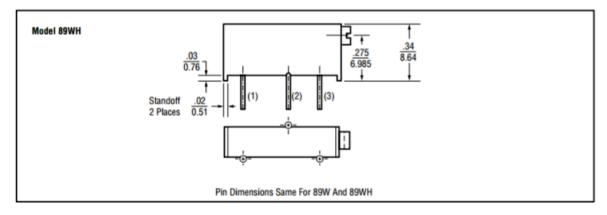


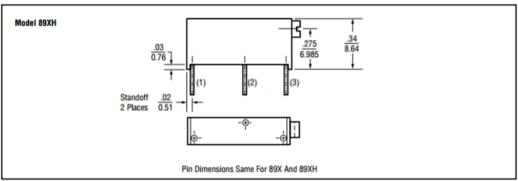
Model 89 and 90



Outline Drawings



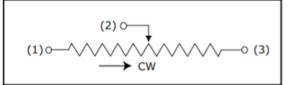




Model 89 and 90

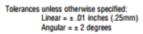


CIRCUIT DIAGRAM



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.





Mouser Electronics

Authorized Distributor

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

TT Electronics:

89PR100 89PR100K 89PR100KLF 89PR100LF 89PR10K 89PR1K 89PR1KLF 89PR200 89PR200K 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 89WR5KLF 89XHR1KLF
89XHR20KLF 89XR100LF 89XR100KLF 89XR10KLF 89XR10KLFTB 89XR20KLF 89XR500LF 89XR50KLF
89XR5KLF 2126 89PR2MLF 89PR20LF 89PR200LF 89PR50KLF 89PR50LF 89PR25KLF 89PR500KLF
89PR5KLF 89PR10KLF 89PR250KLF 89PR200KLF 89PR10LF 89PR2M 89PR1MLF 89PR75KLF
89XR1KLFTB 89XR1KLF 89WR10LFTB 89PHR5KLFTB 89WR2MEGLFTB 90PR50KLF 89XR20KLF 89XR2MEGLF
89XR1MEGLF 90PR2KLF 89WR20LFTB 89PHR10LF 90PR2KLFTB 89PHR10KLFTB 89XR20KLFTB