Model 89 and 90

Features:

- 3/4" rectangular
- 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

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



		F	Packaging	Informat	tion	
	Standard:		55			
			Capacity	=	100 Units (89P)	
					50 Units (All other sty	les)
	Option:		els 89P, 89PH,			
		All units ori	ented with #1 p	in to same si	de.	
		Magazine	Width	=	0.28"	_
			Height	=	0.65"	-
			Length	=	21.5"	-
			Capacity	=	25 Units	-
		(Ordering I	nformat	ion	
Standard:			89 P R 1			
otanduru.			T T T	ΤΤ		
	Model Seri				 RoHS Compliant Proc 	duct Code - Optional
		I 90 to order	-		 Resistance Value Resistance Prefix 	
		arent housin	9)			
	61/10					
Option:			89 P R 10	KIFTB		
option.			Ţ	Ť		
	Pin Style -				 Packaging Option: 	
					TB = Tubes	89X, 89H, 90P Only.)
					(MOUEIS OFF, OFF,	09A, 09H, 90P 01119.)
Option:			89 P B R	101 15		
option.				IUK LF		
	Pin Style -				- Panel Mount Adapter	
					(Use 89B to order	
					Adapter without	
					Trimmer)	
	Standard Resistance Values					
	10	200		5K	50K	500K
	20	500		10K		1Meg
	50	1K		20K		2Meg
1	100	2K	2	25K	250K	

General Note

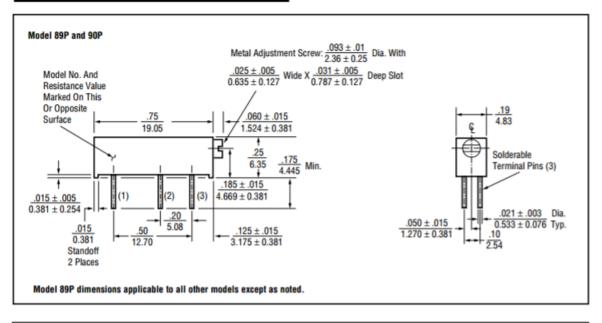
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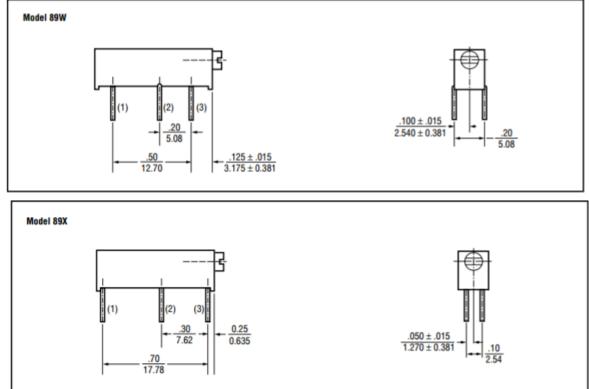
Model 89 and 90



Outline Drawings

LOW PROFILE (Inch/mm)





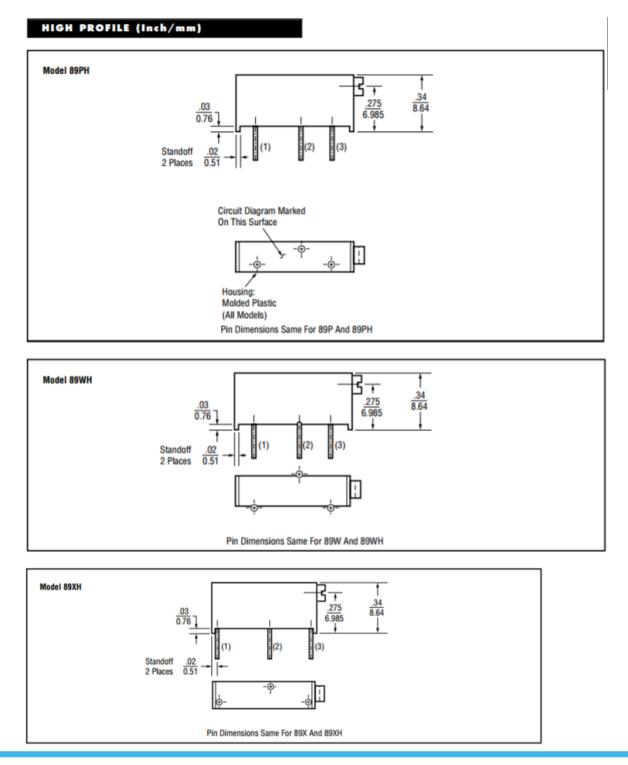
General Note

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Model 89 and 90



Outline Drawings

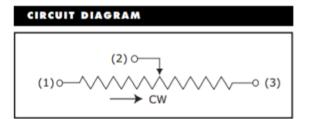


General Note

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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



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Model 89 and 90



Issue	Change Description	Approval	Date
А			11/2016
В	Updated logo and fonts. Changed footer address from Fullerton address to Mexicali address	Brooke Combs	4/5/2019

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Mouser Electronics

Authorized Distributor

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TT Electronics:

89PR100KLF 89PR100LF 89PR1KLF 89PR20KLF 89PR2KLF 89PR500LF 89PR10KLF 89PR1KLF 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 89XR20LF 89PR200LF 89PR50KLF 89PR50LF 89PR25KLF 89PR500KLF 89XR50KLF 89PR10KLF 89PR250KLF 89PR200LF 89PR50KLF 89PR50LF 89PR25KLF 89PR500KLF 89PR50KLF 89PR10KLF 89PR250KLF 89PR200KLF 89PR10LF 89XR1KLFTB 89XR1KLF 89PHR5KLFTB 90PR50KLF 89XR20LF 89PHR2KLFTB 89PR200KLF 89PR10LF 89XR10KLFTB 89XR1KLFTB 89PHR5KLFTB 80WR10KLF 89XR20LF 89PHR2KLFTB 89PHR500KLFTB 89XR200KLFTB 90PR250KLFTB 89PHR50KLFTB 89WR1MEGLF 89XR50LF 89PR1KLFTB 89PR200KLF 89PHR10LF 90PR2KLFTB 80PHR10KLFTB 89XR20KLFTB 89WR1MEGLF 89XR50LF 89PR1KLFTB 89WR200KLF 89PHR10LF 90PR2KLFTB 80PR500KLFTB 89XR20KLFTB 80PR10LFTB 90PR10LFTB 90PR10KLFTB 89WR200KLF 89PHR10LF 90PR250KLFTB 80PR100LF 89XR25KLFTB 90PR10LFTB 90PR10LFTB 90PR100LF 89XR200KLF 89PR25KLFTB 90PR500KLFTB 80VR100LF 80XR25KLFTB 90PR10LFTB 90PR10LFTB 90PR100LF 89XR200KLF 89PR500LF 89XR50LFTB 80VR100LF 80VR100LF 80VR100KLF 89PR1MEGLFTB 90PR100KLFTB 80PR500KLFTB 80VR100LF 80PR20LFTB 90PR10LFTB 90PR200LFTB 80VR100KLF 80VR200LF 90PR100KLFTB 80PR500KLFTB 80VR100LF 80VR200LFTB 90PR200LFTB 80VR100KLF 80VR200LF 90PR100KLFTB 80PR500KLFTB 80VR100LF 80VR200LFTB 90PR200LFTB 80VR100KLF 80VR200LF 90PR100KLFTB 80PR500KLFTB 80VR100LFTB 90PR200LFTB 80VR100KLF 80VR200LF 90PR100LFTB 80PR200KLFTB 90PR20LFTB 80VR100KLFTB 80VR100KLF 80VR200LF 90PR100LFTB 80PR200KLFTB 90PR20LFTB 80VR100KLFTB 80VR200LFTB 80VR100KLF