Model 89 and 90



Features:

- 1/4" square
- Surface mount
- Cermet



Electrical

10 to 2Meg
±10% (<100 Ohms = ±20%)
200 Vdc or rms not to exceed power rating
100mA or within rated power, whichever is less
0.75 at 85°C derating to 0 at 125°C
2 Ohms
20
1,000 Vrms
1,000 Megohms
Essentially infinite
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)

Model 89 and 90



Packaging Information

Standard: Boxes

Capacity = 100 Units (89P)

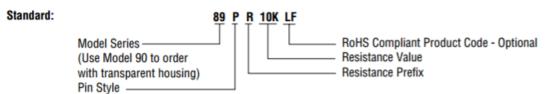
50 Units (All other styles)

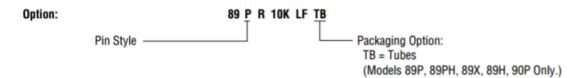
Option: Tubes (Models 89P, 89PH, 89X, 89XH and 90P only.)

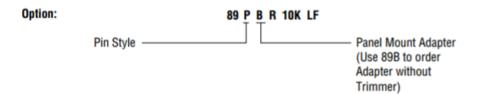
All units oriented with #1 pin to same side.

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

Ordering Information







Standard Resistance Values

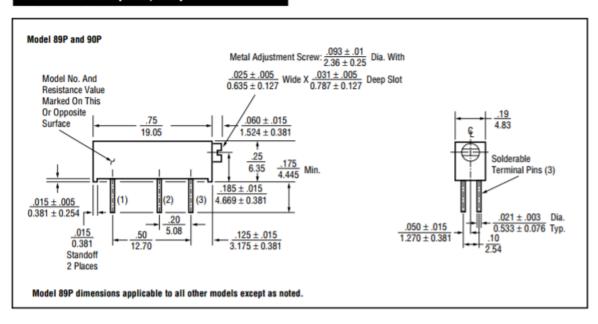
10	200	5K	50K	500K
20	500	10K	100K	1Meg
50	1K	20K	200K	2Meg
100	2K	25K	250K	

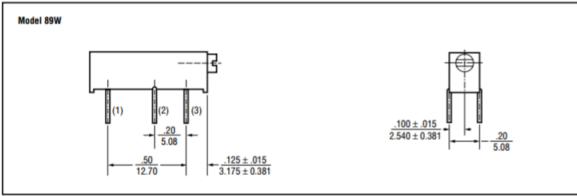
Model 89 and 90

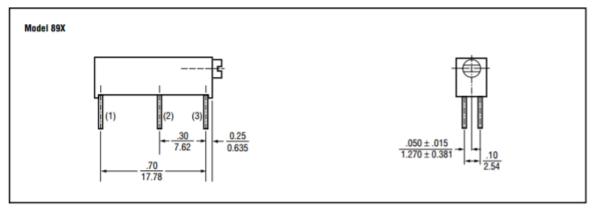


Outline Drawings

LOW PROFILE (Inch/mm)



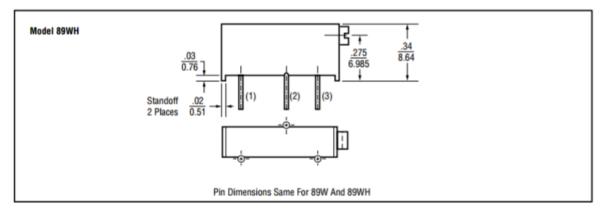


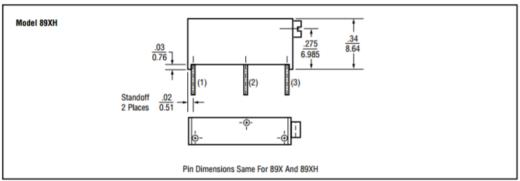


Model 89 and 90



Outline Drawings

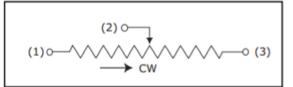




Model 89 and 90

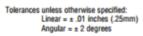


CIRCUIT DIAGRAM



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.





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