

Features

- Bushing mount
- Optional AR pin feature
- Plastic or metal shaft and bushings
- Wirewound
- Solder lugs or PC pins
- Sealable (Full body seal)
- Designed for use in HMI applications

■ RoHS compliant*

3590 - Precision Potentiometer

andard Resistance Range	200 to 100 K oh
al Resistance Tolerance	
lependent Linearity	
ective Electrical Angle	
solute Minimum Resistance	
ise	
electric Withstanding Voltage (MIL-STD-202, Method 301)	TOO OTHIS LIVET HIGARITI
Sea Level	1 500 VAC minim
wer Rating (Voltage Limited By Power Dissipation or 450 VAC, Whichever is	
+40 °C	
+125 °C	
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solution	See recommended part numb
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nperature openicient over Storage Temperature Hange	±ɔʊ ppɪri/-o maximum/
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Viper Bounce	
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Niper Bounce	
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Total Resistance Shift	+5 % maxin
isture Resistance (MIL-STD-202, Method 103, Condition B)	
Total Resistance Shift	±2 % maxim
Total Resistance ShiftRating Sealed Versions (-3, -4, -7, and -8)	±2 % maxim
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Total Resistance Shift Rating Sealed Versions (-3, -4, -7, and -8) Jnsealed Versions (-1 -2, -5, and -6) Mechanical Characteristics Op Strength Chanical Angle Que (Starting & Running) Mounting Aft Runout Aft End Play Of Diameter Runout Cklash Diame	#2 % maxin #45 N-cm (64 ozin.) minin #3600 ° +10 °, #3600
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Recommended Part Numbers

(Printed Circuit)	(Solder Lug)	(Solder Lug)	Resistance (Ω)	Resolution (%)
3590P-2-102L	3590S-2-102L	3590S-1-102L	1,000	.029
3590P-2-202L	3590S-2-202L	3590S-1-202L	2,000	.023
3590P-2-502L	3590S-2-502L	3590S-1-502L	5,000	.025
3590P-2-103L	3590S-2-103L	3590S-1-103L	10,000	.020
3590P-2-203L	3590S-2-203L	3590S-1-203L	20,000	.019
3590P-2-503L	3590S-2-503L	3590S-1-503L	50,000	.013
3590P-2-104L	3590S-2-104L	3590S-1-104L	100,000	.009

BOLDFACE LISTINGS ARE IN STOCK AND READILY AVAILABLE THROUGH DISTRIBUTION. FOR OTHER OPTIONS CONSULT FACTORY. ROHE COMPLIANT L = COMPLIANT

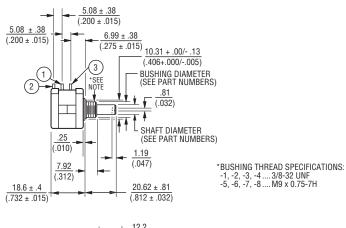
Specifications are subject to change without notice. The device characteristics and parameters in this data sheet can and do vary in different applications and actual device

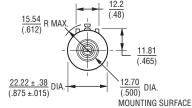
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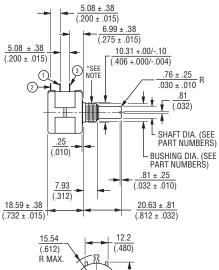
Product Dimensions

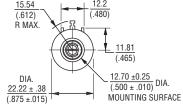
-1, -3, -5, -7 Configurations



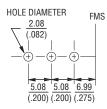


-2, -4, -6, -8 Configurations

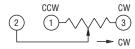




Recommended PCB Layout

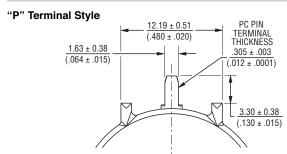


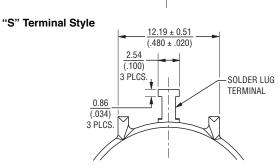
Schematic



TOLERANCES: EXCEPT WHERE NOTED DECIMALS: $XX \pm \frac{.508}{(.02)}$, $XXX \pm \frac{.127}{(.005)}$ FRACTIONS: $\pm 1/64$ DIMENSIONS: $\frac{MM}{(IN.)}$

Terminal Styles



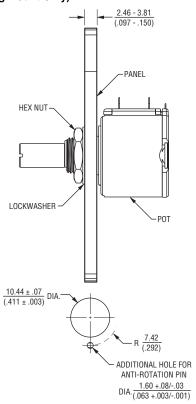


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Panel Thickness Dimensions

(For Bushing Mount Only)



Anti-rotation pin hole is shown at six o'clock position for reference only. The actual location is determined by the customer's application. Refer to the front view of the potentiometer to see the location of the optional A/R pin.

Panel thickness and hole diameters are recommended for best fit. However, customers may adjust the dimensions to suit their specific application.

Shaft & Bushing Configurations

(Bushing - DxL, Shaft - D):

- (-1) Plastic Bushing (3/8 " x 5/16 ") and Shaft (.2480 + .001, .002)
- (-2) Metal Bushing (3/8 " x 5/16 ") and Shaft (.2497 + .0000, .0009)
- (-3) Sealed, Plastic Bushing (3/8 " x 5/16 ") and Shaft (.2480 + .001, .002)
- (-4) Sealed, Metal Bushing (3/8 " x 5/16 ") and Shaft (.2497 + .0000, .0009)
- (-5) Metric, Plastic Bushing (9 mm x 7.94 mm) and Shaft (6 mm + 0, .076 mm)
- (-6) Metric, Metal Bushing (9 mm x 7.94 mm) and Shaft (6 mm + 0, .023 mm)
- (-7) Metric, Sealed, Plastic Bushing (9 mm x 7.94 mm) and Shaft (6 mm + 0, .076 mm)
- (-8) Metric, Sealed, Metal Bushing (9 mm x 7.94 mm) and Shaft (6 mm + 0, .023 mm)