

Features

- Bushing mount
- Optional ±0.05 linearity option
- Excellent wiper stability
- High stop strength
- Sealable
- RoHS compliant*

3400 - Precision Potentiometer

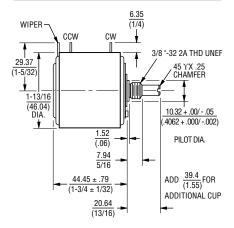
Electrical Characteristics ¹	
Standard Resistance Range	
Total Resistance Tolerance	
Independent Linearity	±0.15 %
Effective Electrical Angle	3600 ° +4 °, -0 °
Absolute Minimum Resistance1 ohm or 0.15 %	6 maximum (whichever is greater)
Noise	
Dielectric Withstanding Voltage	MIL-STD-202, Method 301
Sea Level	1,000 VAC minimum
80,000 Feet	300 VAC minimum
Power Rating (Voltage Limited By Power Dissipation, or 1,000 VAC, Whichever Is Less)	(40 °C) 5 watts
Insulation Resistance (500 VDC)	1,000 megohms minimum
Resolution	See recommended part number

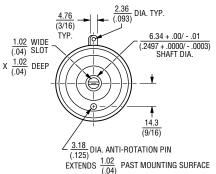
Environmental Characteristics ¹	
Operating Temperature Range	+1 °C to +125 °C
Storage Temperature Range	-65 °C to +125 °C
Temperature Coefficient Over Storage Temperature Range ²	±20 ppm/°C maximum/unit
Vibration	10 G
Vibration	0.1 millisecond maximum
Total Resistance Shift	±2 % maximum
Voltage Ratio Shift	±0.1 % maximum
Shock	50 G
Wiper Bounce	0.1 millisecond maximum
Total Resistance Shift	±2 % maximum
Voltage Ratio Shift	±0.1 % maximum
Load Life	1,000 hours, 5 watts
Total Resistance Shift	±2 % maximum
Rotational Life (No Load)	2,000,000 shaft revolutions ²
Total Resistance Shift	±5 % maximum
Moisture Resistance (MIL-STD-202, Method 103, Condition B)	
Total Resistance Shift	
IP Rating	IP 40
<u> </u>	

Mechanical Characteristics¹ Soldering Condition for 5 secondsNot recommended tolerance, linearity tolerance, wiring diagram, and date code. Ganging (Multiple Section Pots.) 2 cups maximum Hardware One lockwasher (H-37-2) and one mounting nut (H-38-2)

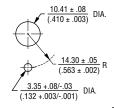
- 1 At room ambient: +25 °C nominal and 50 % relative humidity nominal, except as noted.
- 2 Consult manufacturer for complete specification details for resistances below 500 ohms and above 100K ohms.

Product Dimensions



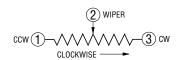


RECOMMENDED PANEL LAYOUT



RECOMMENDED PCB THICKNESS: $\frac{2.46}{(.097)}$ MOUNTING TORQUE: 15-18 LB.-IN.

TOLERANCES: EXCEPT WHERE NOTED DECIMALS: $.XX \pm \frac{.25}{(.010)}$, $.XXX \pm \frac{.13}{(.005)}$ FRACTIONS: $\pm 1/64$ DIMENSIONS: $\frac{MM}{(.N)}$





WARNING Cancer and Reproductive Harm - www.P65Warnings.ca.gov

*RoHS Directive 2015/863, Mar 31, 2015 and Annex.

Specifications are subject to change without notice.

Users should verify actual device performance in their specific applications.

is shipped with each potentiometer.

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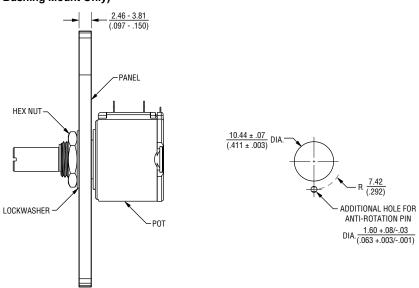
Recommended Part Numbers

Part Number	Resistance (Ω)	Resolution (%)
3400S-1-102L	1,000	.020
3400S-1-502L	5,000	.013
3400S-1-103L	10,000	.010

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

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.

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