



Features

- RoHS compliant*
- Space saving design
- Wide range of resistance values
- PC pin or solder lug terminals
- Metric shaft and bushing option
- Mounting brackets available
- Linear or audio taper versions

PC - "Slimline" 22 mm Square Single Turn Panel Control

Electrical Characteristics

Standard Resistance Range	
Linear Tapers.....	500 ohms to 1 megohm
Audio Tapers.....	1 K ohms to 500 K ohms
Total Resistance Tolerance.....	±20 %
Independent Linearity.....	±5 %
Absolute Minimum Resistance.....	5 ohms maximum
Effective Electrical Angle.....	270 ° ± 5 °
Contact Resistance Variation.....	7 % of total resistance
Dielectric Withstanding Voltage (MIL-STD-202, Method 301)	
Sea Level.....	1,000 VAC minimum
70,000 Feet.....	500 VAC minimum
Insulation Resistance (500 V).....	1,000 ohms minimum
Power Rating @ 70 °C (Voltage Limited by Power Dissipation or 350 VAC, Whichever is Less)	
Linear.....	.75 watt
Audio.....	.25 watt
Theoretical Resolution.....	Essentially infinite

Environmental Characteristics

Operating Temperature Range.....	+1 °C to +125 °C
Storage Temperature Range.....	-40 °C to +125 °C
Temperature Coefficient Over Storage Temperature Range.....	±1000 ppm/°C
Vibration.....	20 G
Total Resistance Shift.....	±1 % maximum
Voltage Ratio Shift.....	±20 % maximum
Shock.....	50 G
Total Resistance Shift.....	±1 % maximum
Voltage Ratio Shift.....	±20 % maximum
Load Life.....	1,000 Hours @ Rated Power, 20 % RH, 70 °C
Total Resistance Shift.....	±10 % maximum
Rotational Life (No Load).....	50,000 cycles
Total Resistance Shift (Linear taper).....	±10 ohms or 12 %, whichever is greater
Total Resistance Shift (Audio taper).....	±20 % maximum
Contact Resistance Variation.....	±5 % maximum
Moisture Resistance.....	MIL-STD-202, Method 103, Condition B
Total Resistance Shift.....	±20 % maximum
IP Rating.....	IP 40

Mechanical Characteristics

Stop Strength (1/4 " and 6 mm Shaft Diameters).....	79.09 N-cm (7 lb.-in.)
Mechanical Angle.....	300 ° ± 5 °
Torque	
Starting (Detented).....	0.5-1.5 N-cm (0.75-2.25 oz.-in.)
Starting (Undetented).....	1.5 N-cm (2.25 oz.-in.) maximum
Running (Undetented).....	0.18 to 1.06 N-cm (0.25 to 1.5 oz.-in.)
Mounting.....	79.09 N-cm (7 lb.-in.) maximum
Weight (Single Section).....	21 gm (0.75 oz.) maximum
Terminals.....	PC pin or solder lug
Soldering Condition	
Manual Soldering.....	96.5Sn/3.0Ag/0.5Cu solid wire or no-clean rosin cored wire 370 °C (700 °F) max. for 3 seconds
Wave Soldering.....	96.5Sn/3.0Ag/0.5Cu solder with no-clean flux 260 °C (500 °F) max. for 5 seconds
Wash processes.....	Not recommended
Marking.....	Manufacturer's trademark, resistance value, part number, and date code
Ganging.....	1 cup maximum
Hardware.....	One lockwasher and one mounting nut is shipped with each potentiometer, except where noted in the part number.
Detents.....	Center, 10, 20, 30, none

For additional features or specifications not shown, consult factory.
FOR ORDERING INFORMATION SEE PAGE 4.

*RoHS Directive 2002/95/EC Jan. 27, 2003 including annex and RoHS Recast 2011/65/EU June 8, 2011.
Specifications are subject to change without notice.

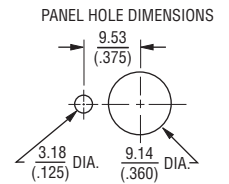
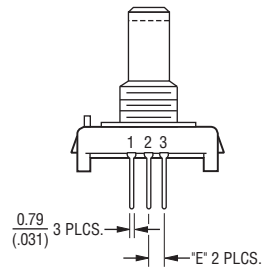
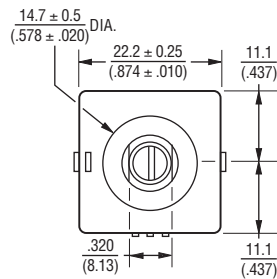
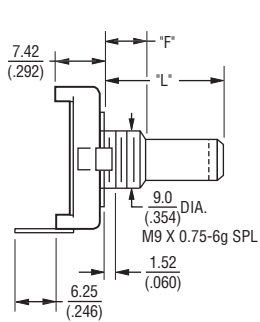
The device characteristics and parameters in this data sheet can and do vary in different applications and actual device performance may vary over time.
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Product Dimensions

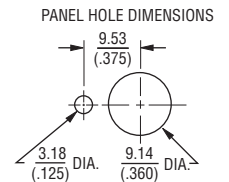
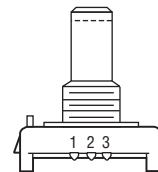
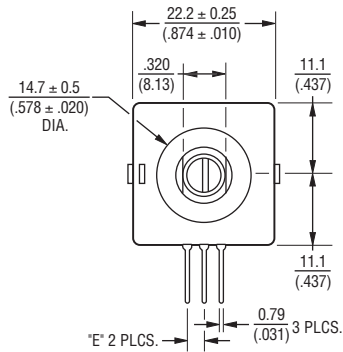
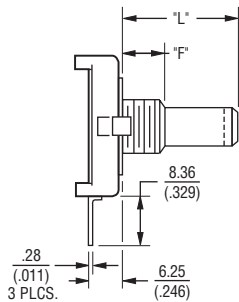
Axial PC Pins



$$^{\circ}F = \frac{6.35}{(.250)} \text{ OR } \frac{9.53}{(.375)} \quad ^{\circ}E = \frac{2.54}{(.100)} \text{ OR } \frac{5.08}{(.200)}$$

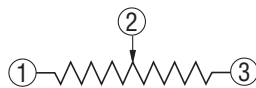
"L" = SEE SHAFT LENGTH TABLE

Radial PC Pins



$$^{\circ}F = \frac{6.35}{(.250)} \text{ OR } \frac{9.53}{(.375)} \quad ^{\circ}E = \frac{2.54}{(.100)} \text{ OR } \frac{5.08}{(.200)}$$

"L" = SEE SHAFT LENGTH TABLE



TOLERANCES EXCEPT WHERE NOTED:

$$.XX = \pm \frac{.25}{(.010)}$$

$$.XXX = \pm \frac{.13}{(.005)}$$

DIMENSIONS: $\frac{\text{MM}}{(\text{INCHES})}$

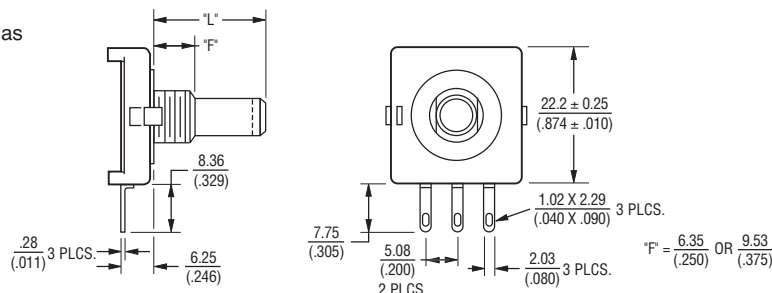
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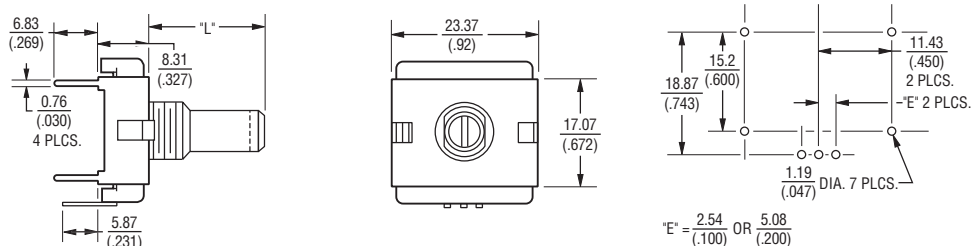
Product Dimensions

SOLDER LUGS

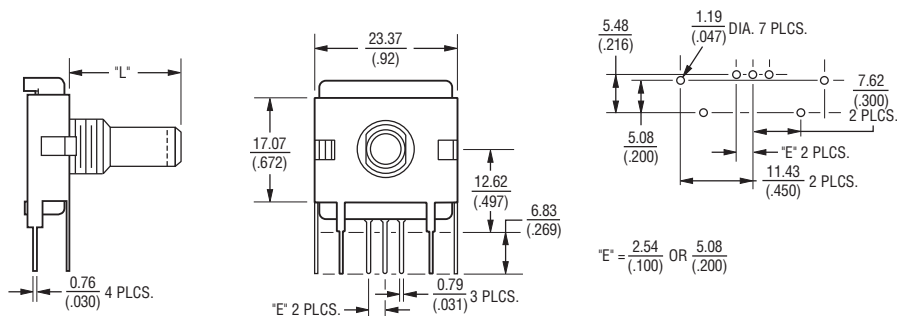
(Dimensions not given are the same as Axial PC pins.)



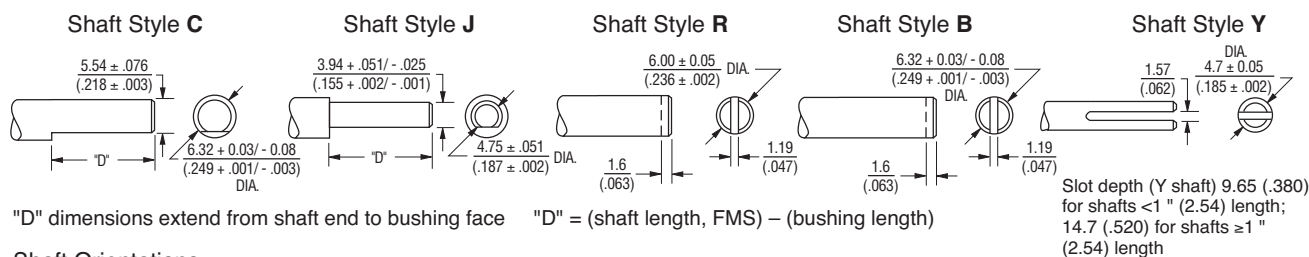
Axial PC PINS With Rear Mounting Bracket



Radial PC PINS With Side Mounting Bracket

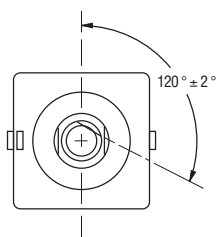


SHAFT STYLES AND ORIENTATION (Full CCW Rotation)

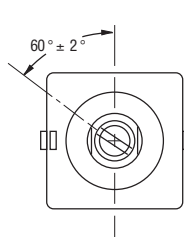


Shaft Orientations

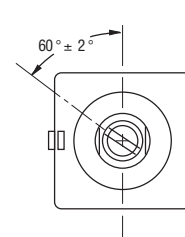
Shaft Styles C, J



Shaft Styles B, R



Shaft Style Y



DIMENSIONS: $\frac{\text{MM}}{(\text{INCHES})}$

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