



## Features

- Multiturn / Cermet / Industrial / Sealed
- Space saver: 0.100 " x 0.150 " x 0.500 "
- $\pm 100$  ppm/ $^{\circ}$ C temperature coefficient over entire temperature and resistance ranges
- Available with or without standoffs
- For trimmer applications/processing guidelines, [click here](#)



Model 3082 is currently available, although not recommended for new designs.

## 3082 - 1/2 " Rectangular Trimpot® Trimming Potentiometer

### Electrical Characteristics

Standard Resistance Range ..... 10 to 2 megohms  
(see standard resistance table)  
Resistance Tolerance .....  $\pm 10$  % std.  
Absolute Minimum Resistance ..... 1.0 % or 2 ohms max.  
(whichever is greater)  
Contact Resistance Variation ..... 3.0 % or 3 ohms max.  
(whichever is greater)  
Continuity ..... Maintained for full mechanical range  
Adjustability  
Voltage .....  $\pm 0.05$  %  
Resistance .....  $\pm 0.10$  %  
Insulation Resistance ..... 500 vdc  
1000 megohms min.  
Adjustment Angle ..... 10 turns nom.

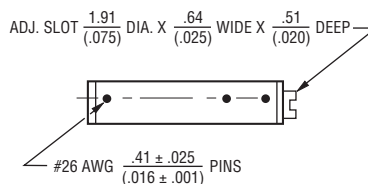
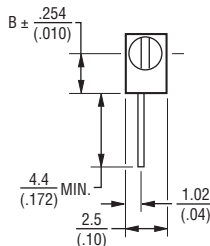
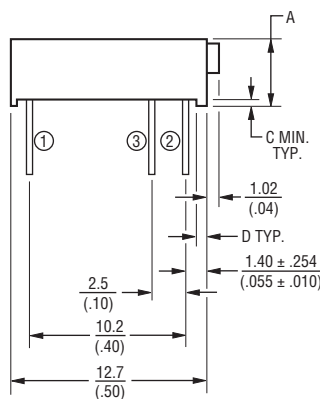
### Environmental Characteristics

Power Rating (400 volts max.)  
85  $^{\circ}$ C ..... 0.3 watt  
Temperature Range ..... -65  $^{\circ}$ C to +150  $^{\circ}$ C  
Temperature Coefficient .....  $\pm 100$  ppm/ $^{\circ}$ C  
Humidity ..... MIL-STD-202 Method 106  
100 megohms min. insulation  
resistance after removal from  
chamber  
Vibration ..... 30 G (exceeds MIL-R-22097)  
Contact Bounce ..... 0.1 millisecond max.  
Wiper Shift, Max. .... 1.0 % voltage ratio  
Shock ..... 100 G (exceeds MIL-R-22097)  
Contact Bounce ..... 0.1 millisecond max.  
Wiper Shift, Max. .... 1.0 % voltage ratio  
Load Life ... 1,000 hours, 0.3 watt @ 25  $^{\circ}$ C  
Resistance Shift, Max. ....  $\pm 2.0$  %  
Mechanical Life ..... 200 cycles  
without discontinuity  
Dielectric Strength ..... MIL-R-22097  
Room Conditions ..... 900 volts AC  
80,000 feet ..... 400 volts AC

### Physical Characteristics

Immersion Leak Test ..... No leaks  
Torque ..... 2.0 oz-in. max.  
Mechanical Adjustments ..... 12 turns nom.  
Mechanical Stops ..... Wiper idles  
Wiper ..... 50 % (Actual TR)  $\pm 10$  %  
Terminals ..... Solderable pins  
Weight ..... 0.009 oz.  
Marking ..... Manufacturer's  
trademark, resistance code,  
terminal numbers, date code and  
manufacturer's model number  
Standard Packaging ..... 25 pcs. per tube

### Product Dimensions



| Dimension | 3082P-1<br>(Without<br>Standoffs) | 3082P-45<br>(With<br>Standoffs) |
|-----------|-----------------------------------|---------------------------------|
| A         | 3.8<br>(0.15)                     | 4.3<br>(0.17)                   |
| B         | 2.7<br>(0.108)                    | 3.3<br>(0.130)                  |
| C         | None                              | .381<br>(0.015)                 |
| D         | None                              | .51<br>(0.020)                  |

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

TOLERANCES: .XX  $\pm .25$   
 $\pm .010$  .XXX  $\pm .127$   
 $\pm .005$   
EXCEPT WHERE NOTED

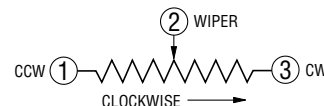
### Standard Resistance Table

| Resistance<br>(Ohms) | Resistance<br>Code |
|----------------------|--------------------|
| 10                   | 100                |
| 20                   | 200                |
| 50                   | 500                |
| 100                  | 101                |
| 200                  | 201                |
| 500                  | 501                |
| 1,000                | 102                |
| 2,000                | 202                |
| 5,000                | 502                |
| 10,000               | 103                |
| 20,000               | 203                |
| 50,000               | 503                |
| 100,000              | 104                |
| 200,000              | 204                |
| 500,000              | 504                |
| 750,000              | 754                |
| 1,000,000            | 105                |
| 2,000,000            | 205                |

### How To Order

**3082 P - 1 - 103 LF**

Model \_\_\_\_\_  
Style \_\_\_\_\_  
Standard or Modified  
Product Indicator \_\_\_\_\_  
-1 = Standard Product  
-45 = With Standoffs  
Resistance Code \_\_\_\_\_  
Terminations \_\_\_\_\_  
LF = 100 % Tin-plated (RoHS compliant)  
Blank = 90 % Tin / 10 % Lead-plated  
(Standard)  
Consult factory for other available options.



REV. 01/13

\*RoHS Directive 2002/95/EC Jan. 27, 2003 including annex and RoHS Recast 2011/65/EU June 8, 2011.

"Trimpot" is a registered trademark of Bourns, Inc.

Specifications are subject to change without notice.

Customers should verify actual device performance in their specific applications.