

## Features

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

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

### Electrical Characteristics

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

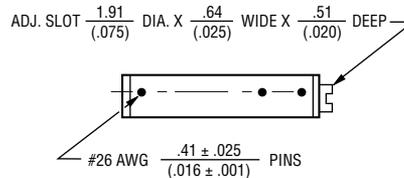
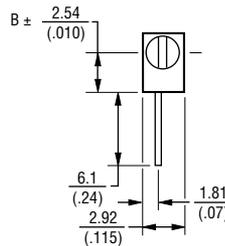
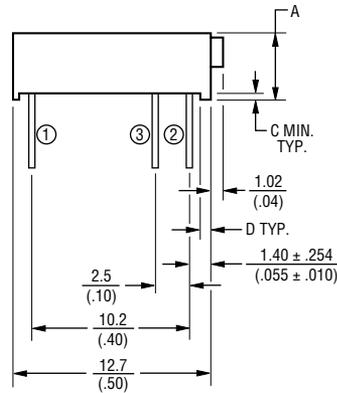
### Environmental Characteristics

|                               |   |
|-------------------------------|---|
| Power Rating (400 volts max.) | 85 °C.....0.3 watt  |
| Temperature Range             | .....-65 °C to +150 °C  |
| Temperature Coefficient       | .....±100 ppm/°C  |
| Humidity                      | MIL-STD-202 Method 106<br>100 megohms min. insulation<br>resistance after removal from<br>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 °C   |
| Resistance Shift, Max.        | .....±2.0 %   |
| Mechanical Life               | .....200 cycles<br>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) ±10 %   |
| Terminals              | ..... Solderable pins   |
| Weight                 | .....0.009 oz.  |
| Marking                | ..... Manufacturer's<br>trademark, resistance code,<br>terminal numbers, date code and<br>manufacturer's model number |
| Standard Packaging     | ..... 25 pcs. per tube  |

### Product Dimensions



| Dimension | 3082P-1<br>(Without Standoffs) | 3082P-45<br>(With Standoffs) |
|-----------|--------------------------------|------------------------------|
| A         | 3.8<br>(.15)                   | 4.3<br>(.17)                 |
| B         | 2.74<br>(.108)                 | 3.3<br>(.130)                |
| C         | None                           | .381<br>(.015)               |
| D         | None                           | .51<br>(.020)                |

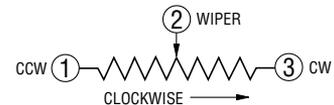
### Standard Resistance Table

| Resistance (Ohms) | Resistance 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.   |       |



|                    |   |
|--------------------|---|
| DIMENSIONS:        | MM<br>(INCHES)                          |
| TOLERANCES:        | .XX ±.25<br>±.010   .XXX ±.127<br>±.005 |
| EXCEPT WHERE NOTED |   |

REV. 08/19

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