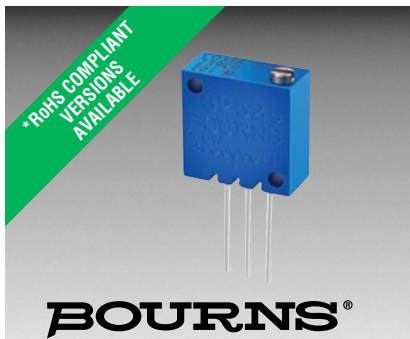




## Features

- Multiturn / Cermet / Sealed
- Listed on the QPL for style RJ22 per MIL-R-22097
- Panel mount option available
- RoHS compliant\* version available
- For trimmer applications/processing guidelines, [click here](#)

## 3252 - 1/2 " Square Trimpot® Trimming Potentiometer

### Electrical Characteristics

|                                 |                    |
|---------------------------------|--------------------|
| Standard Resistance Range       | 10 to 2 megohms    |
| (see standard resistance table) |                    |
| Resistance Tolerance            | ±10 % std.         |
| (tighter tolerance available)   |                    |
| Absolute Minimum Resistance     | 1 % or 2 ohms max. |
| (whichever is greater)          |                    |
| Contact Resistance Variation    | 1 % or 2 ohms max. |
| (whichever is greater)          |                    |
| Adjustability                   |                    |
| Voltage                         | ±0.01 %            |
| Resistance                      | ±0.05 %            |
| Resolution                      | Infinite           |
| Insulation Resistance           | 500 vdc.           |
|                                 | 1,000 megohms min. |
| Dielectric Strength             |                    |
| Sea Level                       | 1,000 vac          |
| 80,000 Feet                     | 400 vac            |
| Effective Travel                | 25 turns nom.      |

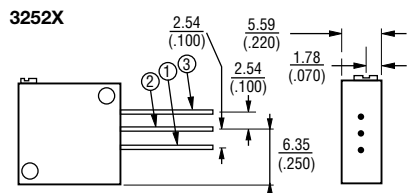
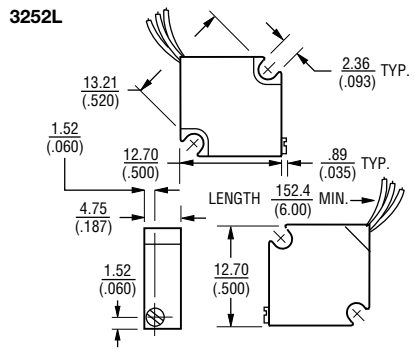
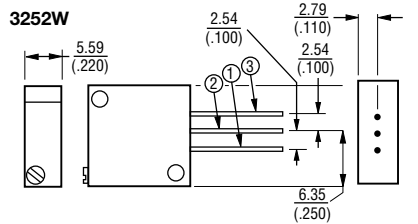
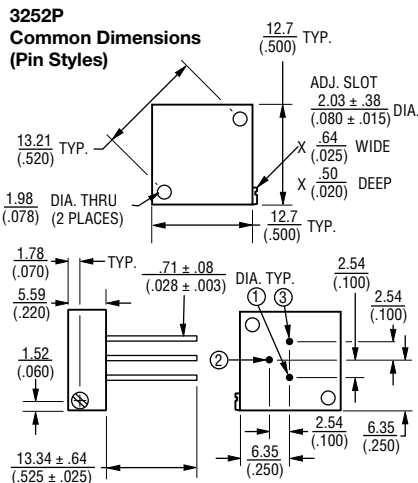
### Environmental Characteristics

|                                       |                                    |
|---------------------------------------|------------------------------------|
| Power Rating @ 85 °C (400 volts max.) | 0.75 watt                          |
| Power Rating @ 150 °C                 | 0 watt                             |
| Temperature Range                     | -65 °C to +150 °C                  |
| Temperature Coefficient               | ±100 ppm/°C                        |
| Seal Test                             | 85 °C Fluorinert†                  |
| (pin styles only)                     |                                    |
| Humidity                              | MIL-STD-202 Method 103;            |
|                                       | 96 hours (1 % ΔTR; 100 Megohms IR) |
| Vibration                             | 30 G (1 % ΔTR; 1 % ΔVR)            |
| Shock                                 | 100 G (1 % ΔTR; 1 % ΔVR)           |
| Load Life                             | 1,000 hours 0.75 watt @ 85 °C      |
|                                       | (3 % ΔTR; 3 % or 3 ohms,           |
|                                       | whichever is greater, CRV)         |
| Rotational Life                       | 200 cycles                         |
|                                       | (2 % ΔTR; 3 % or 3 ohms,           |
|                                       | whichever is greater, CRV)         |

### Physical Characteristics

|                        |                                  |
|------------------------|----------------------------------|
| Torque                 | 5.0 oz-in. max.                  |
| Mechanical Stops       | Wiper idles                      |
| Terminals              | Solderable printed circuit pins  |
| Flexible leads         | (7 strands of 30 AWG)            |
| Weight                 | 0.065 oz.                        |
| Wiper                  | 50 % (Actual TR) ±10 %           |
| Flammability           | U.L. 94V-0                       |
| Machine Screw Mounting |                                  |
| Torque                 | 12 oz-in. max.                   |
| Marking                | Manufacturer's trademark,        |
|                        | resistance code, wiring diagram, |
|                        | date code, manufacturer's model  |
|                        | number and style                 |
| Standard Packaging     |                                  |
| X, P&W Styles          | 25 pcs. per tube                 |
| L Style                | 25 pcs. per bag                  |
| Adjustment Tool        | H-90                             |

### Product Dimensions



### How To Order

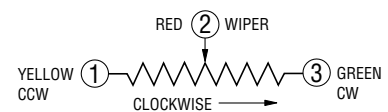
|                        |                                   |          |           |             |          |           |
|------------------------|-----------------------------------|----------|-----------|-------------|----------|-----------|
| Model                  | <b>3252</b>                       | <b>L</b> | <b>-1</b> | <b>-103</b> | <b>M</b> | <b>LF</b> |
| Style                  |                                   |          |           |             |          |           |
| Standard or Modified   |                                   |          |           |             |          |           |
| Product Indicator      |                                   |          |           |             |          |           |
| -1 = Standard Product  |                                   |          |           |             |          |           |
| Resistance Code        |                                   |          |           |             |          |           |
| Optional Suffix Letter |                                   |          |           |             |          |           |
| M = Panel Mount        |                                   |          |           |             |          |           |
| (Factory Installed)    |                                   |          |           |             |          |           |
| Terminations           |                                   |          |           |             |          |           |
| LF =                   | 100 % Tin-plated (RoHS compliant) |          |           |             |          |           |
| Blank =                | 90 % Tin / 10 % Lead-plated       |          |           |             |          |           |
| (Standard)             |                                   |          |           |             |          |           |

Consult factory for other available options.

### Standard Resistance Table

| Resistance (Ohms) | Resistance Code |
|-------------------|-----------------|
| 10                | 100             |
| 20                | 200             |
| 50                | 500             |
| 100               | 101             |
| 200               | 201             |
| 500               | 501             |
| <b>1,000</b>      | <b>102</b>      |
| <b>2,000</b>      | <b>202</b>      |
| <b>5,000</b>      | <b>502</b>      |
| <b>10,000</b>     | <b>103</b>      |
| <b>20,000</b>     | <b>203</b>      |
| 25,000            | 253             |
| 50,000            | 503             |
| 100,000           | 104             |
| 200,000           | 204             |
| 500,000           | 504             |
| 1,000,000         | 105             |
| 2,000,000         | 205             |

Popular values listed in boldface. Special resistances available.



|               |                    |
|---------------|--------------------|
| DIMENSIONS:   | MM<br>(INCHES)     |
| TOLERANCES: ± | 0.25<br>(.010)     |
|               | EXCEPT WHERE NOTED |

REV. 04/14

\*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.

†"Fluorinert" is a registered trademark of 3M Co.

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. Users should verify actual device performance in their specific applications.