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ELECTRONICS

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Jameco Part Number 769258



## Features

- Multiturn/ Wirewound / Industrial / Sealed
- Listed on the QPL for style RT24 per MIL-R-27208 and RTR24 per High-Rel MIL-R-39015
- Panel mount option available
- RoHS compliant\*

## 3290 - 3/8 " Square Trimming Potentiometer

### Electrical Characteristics

|                             |                                 |
|-----------------------------|---------------------------------|
| Standard Resistance Range   | 10 to 50K ohms                  |
|                             | (see standard resistance table) |
| Resistance Tolerance        | ±5 % std.                       |
|                             | (tighter tolerance available)   |
| Absolute Minimum Resistance | 0.1 % or 1 ohm max.             |
|                             | (whichever is greater)          |
| Noise                       | 100 ohms ENR max.               |
| Resolution                  | (see standard resistance table) |
| Insulation Resistance       | 500 vdc.                        |
|                             | 1,000 megohms min.              |
| Dielectric Strength         |                                 |
| Sea Level                   | 1,000 vac                       |
| 80,000 Feet                 | 350 vac                         |
| Adjustment Travel           | 25 turns nom.                   |

### Environmental Characteristics

|                         |                                    |
|-------------------------|------------------------------------|
| Power Rating @ 85 °C    | 1.0 watt                           |
| Power Rating @ 150 °C   | 0 watt                             |
| Temperature Range       | -65 °C to +150 °C                  |
| Temperature Coefficient | ±50 ppm/°C                         |
| Seal Test               | 85 °C Fluorinert†                  |
| Humidity                |                                    |
|                         | MIL-STD-202 Method 106             |
|                         | 96 hours (2 % ΔTR; 100 Megohms IR) |
| Vibration               | 30 G                               |
|                         | (1 % ΔTR; 0.5 % + resolution ΔVR)  |
| Shock                   | 100 G                              |
|                         | (1 % ΔTR; 0.5 % + resolution ΔVR)  |
| Load Life               | 1,000 hours 1.0 watt @ 85 °C       |
|                         | (2 % ΔTR; 500 ohms ENR)            |
| Rotational Life         | 200 cycles                         |
|                         | (2 % ΔTR; 500 ohms ENR)            |

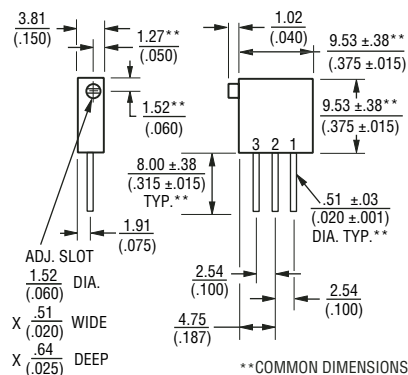
### Physical Characteristics

|                    |                                                                                                             |
|--------------------|-------------------------------------------------------------------------------------------------------------|
| Torque             | 5.0 oz-in. max.                                                                                             |
| Mechanical Stops   | Wiper idles                                                                                                 |
| Terminals          | Solderable printed circuit pins                                                                             |
| Weight             | 0.025 oz.                                                                                                   |
| Marking            | Manufacturer's trademark, resistance code, wiring diagram, date code, manufacturer's model number and style |
| Wiper              | 50 % (Actual TR) ±10 %                                                                                      |
| Flammability       | U.L. 94V-0                                                                                                  |
| Standard Packaging | 50 pcs. per tube                                                                                            |
| Adjustment Tool    | H-90                                                                                                        |

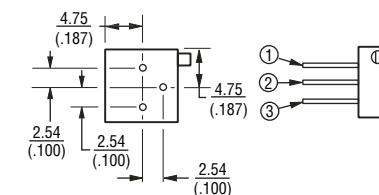
### Product Dimensions

#### 3290H

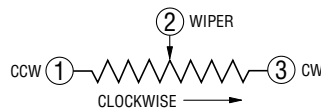
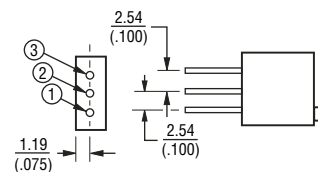
#### Common Dimensions



#### 3290P



#### 3290W



TOLERANCES: ± 0.25 (.010) EXCEPT WHERE NOTED

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

### How to Order

3290 H - 1 - 103 M

Model \_\_\_\_\_  
Style \_\_\_\_\_  
Standard or Modified Product Indicator \_\_\_\_\_  
-1 = Standard Product  
Resistance Code \_\_\_\_\_  
Optional Suffix Letter \_\_\_\_\_  
M = Panel Mount  
(Factory Installed)

Consult factory for other available options.

### Standard Resistance Table

| Resistance (Ohms) | Resistance Code | Nominal Resolution (Percent) |
|-------------------|-----------------|------------------------------|
| 10                | 100             | 1.11                         |
| 20                | 200             | 0.93                         |
| 50                | 500             | 0.62                         |
| 100               | 101             | 0.60                         |
| 200               | 201             | 0.54                         |
| 500               | 501             | 0.42                         |
| <b>1,000</b>      | <b>102</b>      | <b>0.33</b>                  |
| <b>2,000</b>      | <b>202</b>      | <b>0.26</b>                  |
| <b>5,000</b>      | <b>502</b>      | <b>0.20</b>                  |
| <b>10,000</b>     | <b>103</b>      | <b>0.17</b>                  |
| <b>20,000</b>     | <b>203</b>      | <b>0.14</b>                  |
| 25,000            | 253             | 0.13                         |
| 50,000            | 503             | 0.11                         |

Popular values listed in boldface. Special resistances available.

\*RoHS Directive 2002/95/EC Jan 27 2003 including Annex.

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

Specifications are subject to change without notice.

Customers should verify actual device performance in their specific applications.