

## 1/4" Round (6.35mm) Single Turn Cermet Trimmer



### FEATURES

- Rotor and Body Material Flame Retardent
- Solder Plated Terminals for Good Solderability
- Swaged Terminal Pins
- Multifinger Wiper for Better Contact Resistance
- Low Profile Body
- Graduations for Easier Setting
- "O" Ring Seal for Solvent and Aqueous Washing
- Available in Three Pin Styles and Top or Side Adjustment
- Ability to Withstand Immersion Cleaning Processes

The Model 75 offers a range of features to meet today's demanding reliability standards. Environmental and performance testing to MIL-STD-202 and MIL-R-22097 ensures high quality levels are maintained. This very competitive product, which exhibits excellent setability and stability characteristics, is available in three standard pin styles for top or side adjust and resistance range between 10 ohms - 2 Megohms with a tolerance of  $\pm 10\%$ .

### ELECTRICAL SPECIFICATIONS

| PARAMETER                             |                                                                                                |
|---------------------------------------|------------------------------------------------------------------------------------------------|
| Effective Travel                      | 240° nominal                                                                                   |
| Resistance Range                      | 10 $\Omega$ to 2M $\Omega$                                                                     |
| Resistance Tolerance                  | $\pm 10\%$                                                                                     |
| End Resistance                        | 2 $\Omega$ maximum                                                                             |
| Temperature Coefficient of Resistance | $\pm 100\text{ppm}/^\circ\text{C}$                                                             |
| Power Rating                          | 0.5 watts @ 125°C derated linearly to zero watts @ 150°C<br>Maximum voltage not to exceed 300V |
| Dielectric Withstanding Voltage       | 600VAC @ sea level/250 @ 80,000ft                                                              |
| Insulation Resistance                 | 1000M $\Omega$ minimum (@ 500VDC)                                                              |
| Contact Resistance Variation          | 3% or 3 $\Omega$ , whichever is greater                                                        |
| Maximum Wiper Current                 | 100mA                                                                                          |

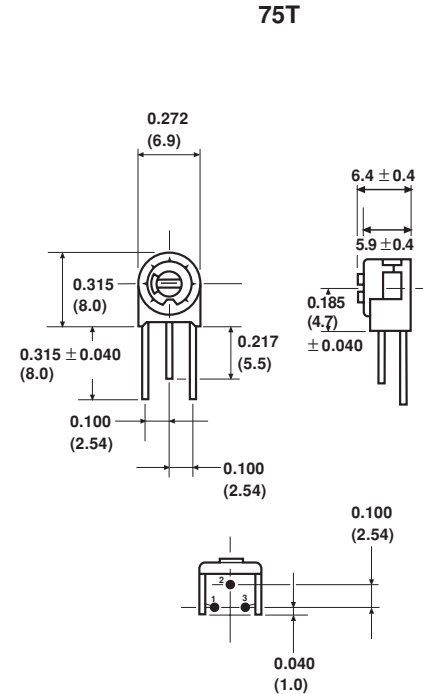
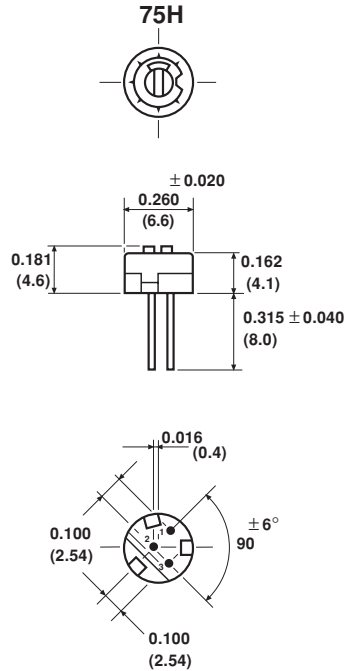
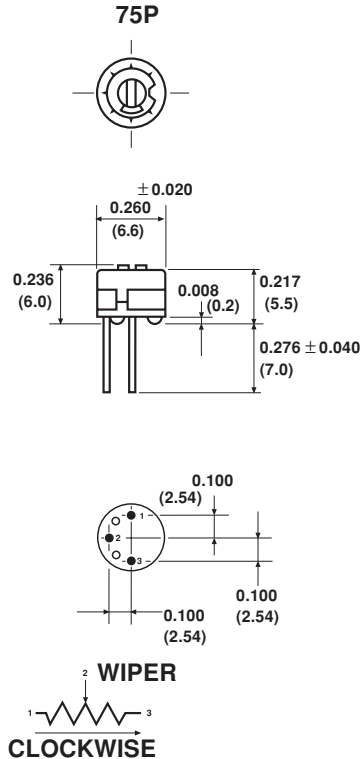
### MECHANICAL SPECIFICATIONS

| PARAMETER          |                |
|--------------------|----------------|
| Stop               | Solid          |
| Angle              | 260° nominal   |
| Torque             | 200mNm maximum |
| Resistance Element | Cermet         |

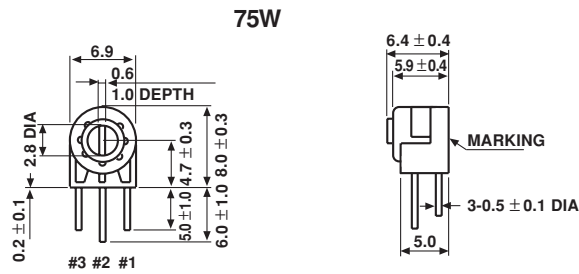
### ORDERING INFORMATION

| 75<br>MODEL           | P<br>TERMINAL STYLE | XXX<br>EIA RESISTANCE VALUE |
|-----------------------|---------------------|-----------------------------|
| P, H, T, W            |                     |                             |
| Example: 75 - P - XXX |                     |                             |

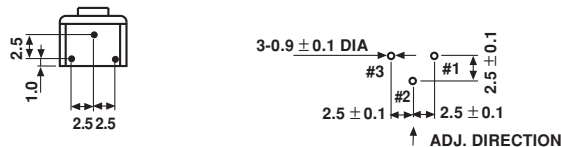
**DIMENSIONS** in inches (millimeters)



**TOLERANCE  $\pm 0.012$  (0.3) EXCEPT WHERE NOTED**



### RECOMMEND MOUNTING HOLES



## ENVIRONMENTAL SPECIFICATIONS

| PARAMETER                  |                   | MAX<br>R | CHANGE<br>$\frac{V_{AB}}{V_{AC}}$ |
|----------------------------|-------------------|----------|-----------------------------------|
| Temperature Range          | - 55°C to + 150°C | ± 2%     | ± 1%                              |
| Vibration (1% ΔTR; 1% ΔVR) | 30g               | ± 1%     | ± 1%                              |
| Electrical Endurance       | 1000 Hours        | ± 3%     | ± 2%                              |
| Damp Heat Steady State     | 96 Hours          | ± 3%     | —                                 |
| Mechanical Life            | 200 Cycles        | ± 4%     | —                                 |
| Sealing                    | 1 min @ 85°C      | ± 1%     | —                                 |

## RESISTANCE VALUES

|             |                                                                                                       |
|-------------|-------------------------------------------------------------------------------------------------------|
| <b>Ohms</b> | 10R, 20R, 50R, 100R, 200R, 500R,<br>1K, 2K, 5K, 10K, 20K, 25K, 50K,<br>100K, 200K, 250K, 500K, 1M, 2M |
|-------------|-------------------------------------------------------------------------------------------------------|

## MARKING

|                            |                                                                                                          |
|----------------------------|----------------------------------------------------------------------------------------------------------|
| <b>Unit Identification</b> | Manufacturer's name and model number, resistance value, tolerance, date code and terminal identification |
|----------------------------|----------------------------------------------------------------------------------------------------------|