

# Single Turn Trimmer

## Model 25



### Features:

- 1/4" square
- Sealed single turn
- Cermet
- Through-hole

## Electrical

|                               |  |
|-------------------------------|--|
| Standard Resistance Range     | 10 Ohms to 2 Megohms                           |
| Standard Resistance Tolerance | ±10%   |
| Input Voltage                 | 300 Vdc Max. or rms not to exceed power rating |
| Power Rating                  | 0.5 Watts at 70°C derating to 0 at 125°C       |
| End Resistance                | 1% or 2 Ohms Max., whichever is greater        |
| Actual Electrical Travel      | 210° nominal                                   |
| Dielectric Strength           | 900 Vrms                                       |
| Insulation Resistance         | 1,000 Megohms Min.                             |
| Resolution                    | Essentially infinite                           |
| Contact Resistance Variation  | 1% or 3 Ohms Max., whichever is greater        |

## Environmental

|                             |  |
|-----------------------------|--|
| Seal                        | 85°C Fluorinert® (No Leaks)                          |
| Temperature Coefficient     | ±100 ppm/°C  |
| Operating Temperature Range | -55°C to +125°C                                      |
| Thermal Shock               | Five cycles -55°C to +125°C (2% ΔRT, 2% ΔVR)         |
| Moisture Resistance         | Ten 24 hour cycles (3% ΔRT)                          |
| Shock                       | 6 ms sawtooth, 100 G's (1% ΔRT, 1% ΔVR)              |
| Vibration                   | 30 G's, 10 to 2,000 Hz (1% ΔRT, 1% ΔVR)              |
| High Temperature Exposure   | 250 hours at 125°C (2% ΔRT, 2% ΔVR)                  |
| Rotational Life             | 200 cycles (2 Ohms or 3% ΔRT, whichever is greater)  |
| Load Life                   | 1,000 hours at 70°C & 0.5 Watts (3% ΔRT, 3% ΔVR)     |
| Resistance to Solder Heat   | 350°C for 3 seconds or 260°C for 10 seconds (1% ΔRT) |

## Mechanical

|                  |                              |
|------------------|------------------------------|
| Mechanical Stops | Solid                        |
| Stop Strength    | 7 oz.-in. Min. (500 g-cm)    |
| Torque           | 3 oz.-in. Max. (200 g-cm)    |
| Weight           | 0.02 oz. nominal (0.6 grams) |

General Note  
TT Electronics reserves the right to make changes in product specification without notice or liability. All information is subject to TT Electronics' own data and is considered accurate at time of going to print.

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### Ordering Information



### Packaging Information

Standard (no code): Tubes. 50 units each. All units oriented with #1 pin to same side.

Option (TR code, only for U or V pin style): Tape & Reel. All units oriented with #3 pin toward direction of feed.

|      | Pin Style              | V            | U            |
|------|------------------------|--------------|--------------|
| Tape | Width =                | 18 mm        | 18 mm        |
|      | Single hole sprocket = | 0.50" pitch  | 0.50" pitch  |
|      | Capacity =             | 1,000 units  | 750 units    |
| Reel | Diameter =             | 14" (363 mm) | 14" (363 mm) |

Option (AP code, only for U or V pin style): Ammo pack. Tape fold 12". Box 2.0" x 13.4" x 13.8" (50 mm x 340 mm x 350 mm)

### Standard Resistance Values, Ohms

|    |     |    |     |      |      |
|----|-----|----|-----|------|------|
| 10 | 100 | 1K | 10K | 100K | 1Meg |
| 20 | 200 | 2K | 20K | 200K | 2Meg |
| 50 | 500 | 5K | 50K | 500K |      |

### Circuit Diagram



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### Outline Drawings—Top Adjustment

**MODEL 25P**



**Note: Model 25P dimensions applicable to all models except as noted**

**MODEL 25U**



**MODEL 25W**



### Outline Drawings—Side Adjustment



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