

# Single Turn Trimmer

## Model 22



### Features:

- 3 mm square
- Sealed single turn
- Cermet
- Surface mount

## Model Styles Available

|            |     |
|------------|-----|
| J Hook     | 22A |
| Side Mount | 22S |

## Electrical

|                               |  |
|-------------------------------|--|
| Standard Resistance Range     | 10 Ohms to 2 Megohms                           |
| Standard Resistance Tolerance | ±20%   |
| Input Voltage                 | 200 Vdc Max. or rms not to exceed power rating |
| Power Rating                  | 0.125 Watts at 70°C derating to 0 at 125°C     |
| End Resistance                | 1% or 3 Ohms Max., whichever is greater        |
| Actual Electrical Travel      | 220° nominal                                   |
| Dielectric Strength           | 500 Vrms                                       |
| Insulation Resistance         | 100 Megohms Min.                               |
| Resolution                    | Essentially infinite                           |
| Contact Resistance Variation  | 3% or 3 Ohms Max., whichever is greater        |

## Environmental

|                             |  |
|-----------------------------|--|
| Seal                        | 85°C Fluorinert® (No Leaks)                        |
| Temperature Coefficient     | ±100 ppm/°C (<100 Ohms = ±150 ppm/°C)              |
| Operating Temperature Range | -55°C to +125°C                                    |
| Thermal Shock               | Five cycles -55°C to +125°C (2% ΔRT, 1% ΔVR)       |
| Moisture Resistance         | Ten 24 hour cycles (3% ΔRT)                        |
| Shock                       | 6 ms sawtooth, 100 G's (1% ΔRT, 1% ΔVR)            |
| Vibration                   | 20 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             | 100 cycles (3% ΔRT)                                |
| Load Life                   | 1,000 hours at 70°C & 0.125 Watts (3% ΔRT, 1% ΔVR) |
| Resistance to Solder Heat   | 260°C for 5 seconds                                |

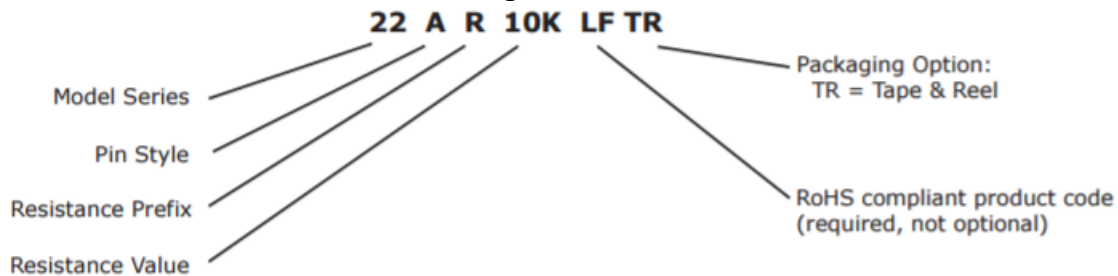
### General Note

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### Mechanical

|                  |                                |
|------------------|--------------------------------|
| Mechanical Stops | Solid                          |
| Stop Strength    | 1.3 oz.-in. Min. (300 g-cm)    |
| Torque           | 0.65 oz.-in. Max. (150 g-cm)   |
| Weight           | 0.002 oz. nominal (0.14 grams) |
| Wiper Position   | Approximately 50%              |

### Ordering Information



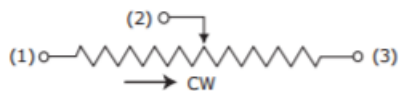
### Packaging Information

Standard (no code): Boxes. Capacity = 100 units.

Option (TR code): Tape & Reel. All units oriented with #2 (slider) pin adjacent to sprocket holes.

|      | Pin Style  | A           | S            |
|------|------------|-------------|--------------|
| Tape | Width =    | 12 mm       | 16 mm        |
|      | Sprocket = | 4 mm pitch  | 4 mm pitch   |
|      | Capacity = | 1000 units  | 200 units    |
| Reel | Diameter = | 7" (178 mm) | 10" (254 mm) |

### Circuit Diagram



### Standard Resistance Values, Ohms

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

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### Outline Drawings



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