# WT22

Lead-screw Actuated Wirewound Trimmer Potentiometer

## Electrical Characteristics

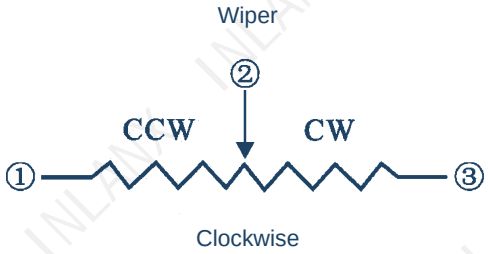
| Parameter | Specification |
|---|---|
| Nominal resistance | 50 Ω to 10 kΩ |
| Resistance tolerance | ±5% |
| Insulation resistance | ≥1000 MΩ |
| Dielectric withstand | 900 VAC at normal atmospheric pressure |
| Terminal resistance | ≤±2%R or 1 Ω, whichever is greater |
| Effective electrical travel | ≥20 turns |




## Physical Characteristics

| Parameter | Specification |
|---|---|
| Starting torque | ≤35 mN·m |
| Marking | Trademark, model, nominal resistance, resistance-temperature characteristic, temperature characteristic |
| Mass | ≤2.4 g |

## Circuit Diagram




## Nominal Resistance / Resolution

| Ω | % | Ω | % |
|---|---|---|---|
| 50 | 0.63 | 1k | 0.36 |
| 100 | 0.51 | 2k | 0.29 |
| 200 | 0.42 | 5k | 0.26 |
| 500 | 0.42 | 10k | 0.17 |

## Environmental Characteristics

| Parameter | Specification |
|---|---|
| Rated power | 0.75 W @ 70℃; 0 W @ 125℃ |
| Temperature range | -55℃ to +125℃ |
| Resistance-temperature characteristic | ≤±50 × 10^-6/K |

## Applicable Standards

| Quality mark | Detail specification | Generic specification |
|---|---|---|
| Triangle J mark | SJ 20221-1992 | GJB 917-1990 |

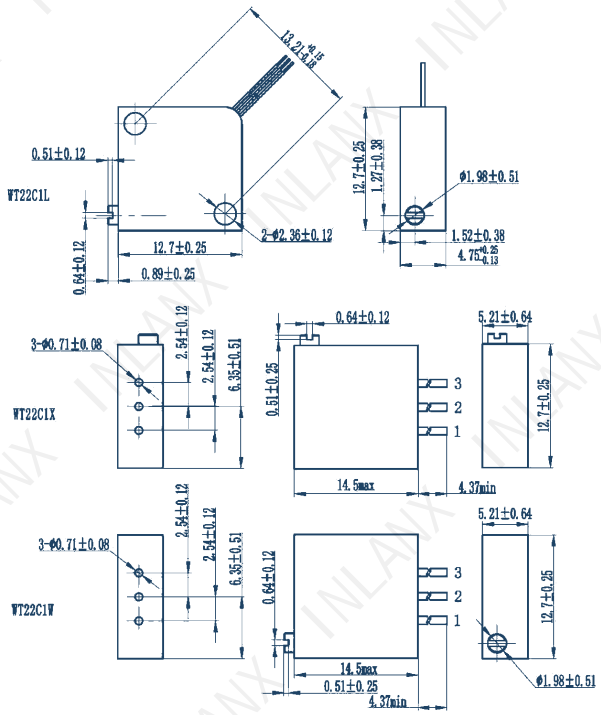
# WT22

Lead-screw Actuated Wirewound Trimmer Potentiometer

## Main Inspection Items

| Item | Test Conditions and Requirements |
|---|---|
| Moisture resistance | GJB 360A-1996, Method 106; RH 90% to 98%, 240 h; ΔR≤±(1%R+0.05 Ω); insulation resistance ≥100 MΩ. |
| Shock | GJB 360A-1996, Method 213; 100 g, 18 shocks; ΔR≤±(1%R+0.05 Ω); Δ(Uab/Uac)≤±(1%+minimum resolution). |
| High-frequency vibration | GJB 360A-1996, Method 204, Condition B; ΔR≤±(1%R+0.05 Ω); Δ(Uab/Uac)≤±(1%+minimum resolution). |
| High-temperature life | GJB 360A-1996, Method 108; (70±5)℃; ΔR≤±2%R; Δ(Uab/Uac)≤±(2%+minimum resolution). |
| Low-temperature operation | -55℃, 0.75 W, 45 min; no electrical or mechanical damage; ΔR≤±(1%R+0.05 Ω); Δ(Uab/Uac)≤±(1%+minimum resolution). |
| High-temperature storage | 125℃, 250 h; ΔR≤±(1%R+0.05 Ω); Δ(Uab/Uac)≤±(1%+minimum resolution). |
| Rotational life | 200 revolutions, with voltage corresponding to rated power applied; ΔR≤±2%R; no apparent damage or electrical discontinuity. |
| Immersion | GJB 360A-1996, Method 104; 85℃, 1 min; no continuous air bubbles. |

## Outline Dimensions • mm




## Ordering Information

### WT22 - C - 1 - W - 5K - J

Model / Resistance-temperature characteristic C / Temperature characteristic 1 / Terminal style / Nominal resistance / Tolerance J (±5%)

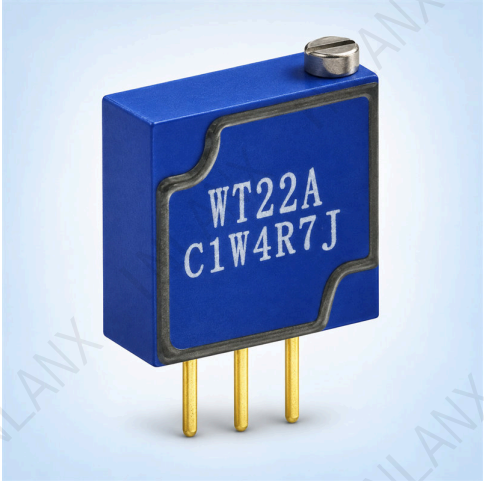
C: ±50×10^-6/K. 1: maximum ambient temperature at rated power 70℃, upper temperature 125℃. L: flexible insulated leads; X: PCB terminals (side mounting, staggered); W: PCB terminals (side mounting).

# WT22A

Lead-screw Actuated Wirewound Trimmer Potentiometer

## Electrical Characteristics

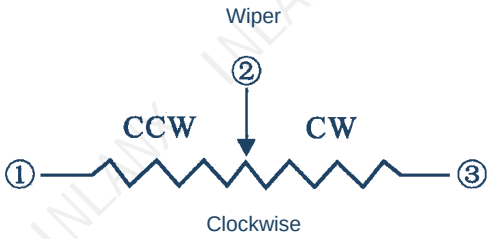
| Parameter | Specification |
|---|---|
| Nominal resistance | 4.7 Ω to 10 kΩ |
| Resistance tolerance | ±5% |
| Insulation resistance | ≥1000 MΩ |
| Dielectric withstand | 900 VAC at normal atmospheric pressure |
| Terminal resistance | ≤±2%R or 1 Ω, whichever is greater |
| Effective electrical travel | ≥20 turns |




## Physical Characteristics

| Parameter | Specification |
|---|---|
| Starting torque | ≤35 mN·m |
| Marking | Model, nominal resistance, resistance-temperature characteristic, temperature characteristic |
| Mass | ≤2.4 g |

## Circuit Diagram




## Nominal Resistance / Resolution

| Ω | % | Ω | % |
|---|---|---|---|
| 50 | 0.63 | 1k | 0.36 |
| 100 | 0.51 | 2k | 0.29 |
| 200 | 0.42 | 5k | 0.26 |
| 500 | 0.42 | 10k | 0.17 |

## Environmental Characteristics

| Parameter | Specification |
|---|---|
| Rated power | 0.75 W @ 70℃; 0 W @ 125℃ |
| Temperature range | -55℃ to +125℃ |
| Resistance-temperature characteristic | ≤±50 × 10^-6/K |

## Applicable Standards

| Quality mark | Detail specification | Generic specification |
|---|---|---|
| Inverted triangle G mark | Q/RU 03376-2018; QZJ 84061 | GJB 917-1990 |
| J | Q/RU 03376-2018 | GJB 917-1990 |

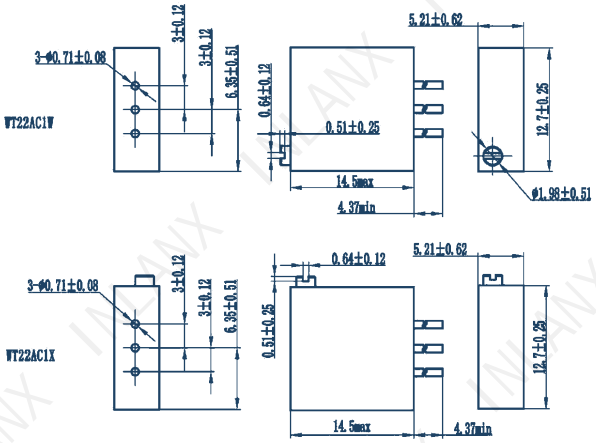
# WT22A

Lead-screw Actuated Wirewound Trimmer Potentiometer

## Main Inspection Items

| Item | Test Conditions and Requirements |
|---|---|
| Moisture resistance | GJB 360A-1996, Method 106; RH 90% to 98%, 240 h; ΔR≤±(1%R+0.05 Ω); insulation resistance ≥100 MΩ. |
| Shock | GJB 360A-1996, Method 213; 100 g, 18 shocks; ΔR≤±(1%R+0.05 Ω); Δ(Uab/Uac)≤±(1%+minimum resolution). |
| High-frequency vibration | GJB 360A-1996, Method 204, Condition B; ΔR≤±(1%R+0.05 Ω); Δ(Uab/Uac)≤±(1%+minimum resolution). |
| High-temperature life | GJB 360A-1996, Method 108; (70±5)℃; ΔR≤±2%R; Δ(Uab/Uac)≤±(2%+minimum resolution). |
| Low-temperature operation | -55℃, 0.75 W, 45 min; no electrical or mechanical damage; ΔR≤±(1%R+0.05 Ω); Δ(Uab/Uac)≤±(1%+minimum resolution). |
| High-temperature storage | 125℃, 250 h; ΔR≤±(1%R+0.05 Ω); Δ(Uab/Uac)≤±(1%+minimum resolution). |
| Rotational life | 200 revolutions, with voltage corresponding to rated power applied; ΔR≤±2%R; no apparent damage or electrical discontinuity. |

## Outline Dimensions • mm




## Ordering Information

### WT22A - C - 1 - W - 5K - J

Model / Resistance-temperature characteristic C / Temperature characteristic 1 / Terminal style / Nominal resistance / Tolerance J (±5%)

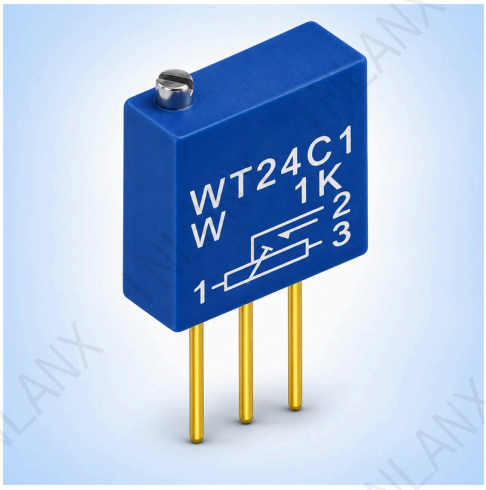
C: ±50×10^-6/K. 1: maximum ambient temperature at rated power 70℃, upper temperature 125℃. L: flexible insulated leads; X: PCB terminals (side mounting, staggered); W: PCB terminals (side mounting).

# WT24

Lead-screw Actuated Wirewound Trimmer Potentiometer

## Electrical Characteristics

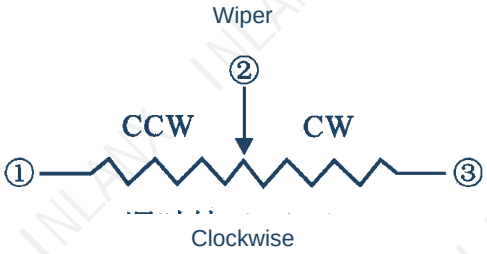
| Parameter | Specification |
|---|---|
| Nominal resistance | 20 Ω to 5 kΩ |
| Resistance tolerance | ±5% |
| Insulation resistance | ≥1000 MΩ |
| Dielectric withstand | 900 VAC at normal atmospheric pressure |
| Terminal resistance | ≤±2%R or 1 Ω, whichever is greater |
| Peak noise | ≤100 Ω |




## Physical Characteristics

| Parameter | Specification |
|---|---|
| Starting torque | ≤35 mN·m |
| Marking | Trademark, model, nominal resistance, resistance-temperature characteristic, temperature characteristic, circuit diagram |
| Mass | ≤1.3 g |

## Circuit Diagram




## Nominal Resistance / Resolution

| Ω | % | Ω | % |
|---|---|---|---|
| 20 | 1.1 | 1k | 0.37 |
| 50 | 0.77 | 2k | 0.3 |
| 100 | 0.62 | 5k | 0.25 |
| 200 | 0.55 | | |
| 500 | 0.51 | | |

## Environmental Characteristics

| Parameter | Specification |
|---|---|
| Rated power | 0.75 W @ 70℃; 0 W @ 125℃ |
| Temperature range | -55℃ to +125℃ |
| Resistance-temperature characteristic | ≤±50 × 10^-6/K |

## Applicable Standards

| Quality mark | Detail specification | Generic specification |
|---|---|---|
| Triangle J mark | SJ 20222-1992 | GJB 917-1990 |

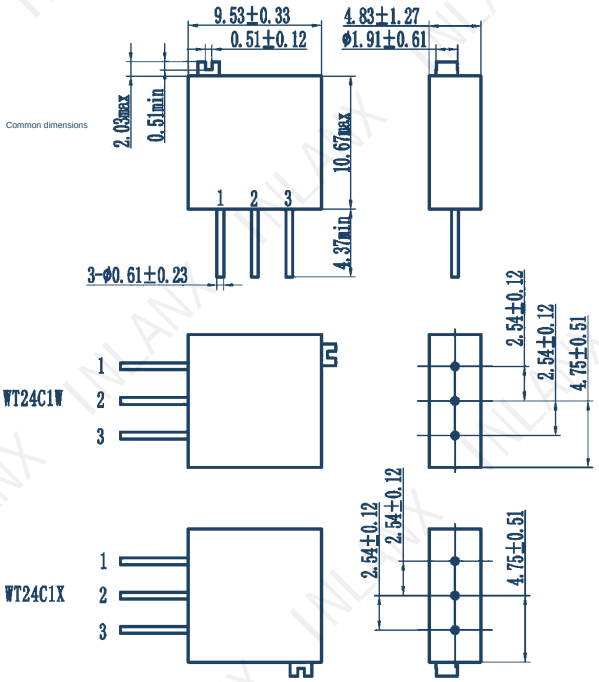
# WT24

Lead-screw Actuated Wirewound Trimmer Potentiometer

## Main Inspection Items

| Item | Test Conditions and Requirements |
|---|---|
| Moisture resistance | GJB 360A-1996, Method 106; RH 90% to 98%, 240 h; ΔR≤±(1%R+0.05 Ω); insulation resistance ≥100 MΩ. |
| Shock | GJB 360A-1996, Method 213; 100 g, 18 shocks; ΔR≤±(1%R+0.05 Ω); Δ(Uab/Uac)≤±(1%+minimum resolution). |
| High-frequency vibration | GJB 360A-1996, Method 204, Condition B; ΔR≤±(1%R+0.05 Ω); Δ(Uab/Uac)≤±(1%+minimum resolution). |
| High-temperature life | GJB 360A-1996, Method 108; (70±5)℃; ΔR≤±2%R; Δ(Uab/Uac)≤±(2%+minimum resolution). |
| Low-temperature operation | -55℃, 0.75 W, 45 min; no electrical or mechanical damage; ΔR≤±(1%R+0.05 Ω); Δ(Uab/Uac)≤±(1%+minimum resolution). |
| High-temperature storage | 125℃, 250 h; ΔR≤±(1%R+0.05 Ω); Δ(Uab/Uac)≤±(1%+minimum resolution). |
| Rotational life | 200 revolutions, with voltage corresponding to rated power applied; ΔR≤±2%R; no apparent damage or electrical discontinuity. |
| Immersion | GJB 360A-1996, Method 104; 85℃, 1 min; no continuous air bubbles. |

## Outline Dimensions • mm




## Ordering Information

### WT24 - C - 1 - W - 5K - J

Model / Resistance-temperature characteristic C / Temperature characteristic 1 / Terminal style / Nominal resistance / Tolerance J (±5%)

C: ±50×10^-6/K. 1: maximum ambient temperature at rated power 70℃, upper temperature 125℃. L: flexible insulated leads; X: PCB terminals (side mounting, staggered); W: PCB terminals (side mounting).