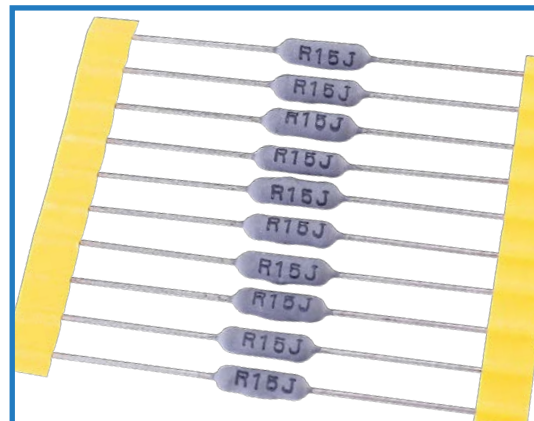


不燃性巻線固定抵抗器
Non Flammable Wire-Wound Fixed Resistor

KNT series

- KNP 1~3W 自挿機対応
テーピング品
- RoHS対応品
- KNP 1~3W Taping type
Suitable for automatic inserting machine
- RoHS complied



■電氣的、機械的特性 Electrical and mechanical characteristics

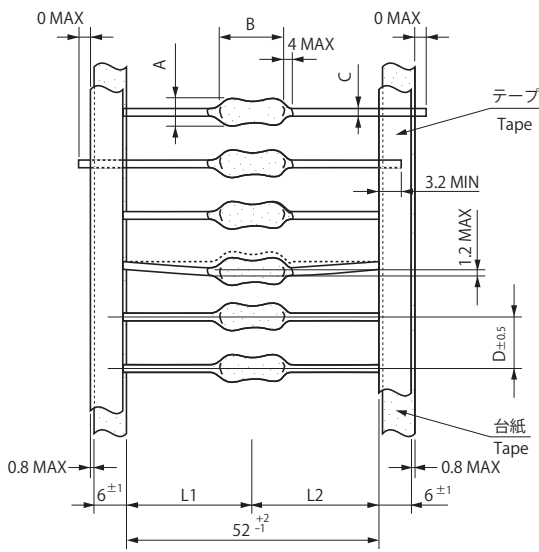
| 特性 Characteristics | 規格値 Standards | 試験方法 Test methods | | | | | | | | | | | | |
|---|--|---|----------------------------|----------|--|--|------|------|--|--|-----------|------|------|-----------|
| 抵抗値と抵抗値許容差 Resistance and Resistance tolerance | 公称抵抗値 Resistance nominal 1Ω ≤ ±5% (J) 1Ω > ±10% (K) | | | | | | | | | | | | | |
| 抵抗温度特性 Temperature coefficient | 20Ω ≤ ±260ppm/°C max. (常温 Normal temp. ~ 常温 Normal temp.+ 100°C) 20Ω > ±400ppm/°C max. (常温 Normal temp. ~ 常温 Normal temp.+ 100°C) | | | | | | | | | | | | | |
| 定格負荷 Power rating load | △R/R ≤ ± (1%+0.05Ω) 最高表面温度 (Max. surface temp. rise) 350°C max. | | | | | | | | | | | | | |
| 短時間過負荷 Short-time overload | アーク焼損等の異常なきこと No evidence of arc damage etc. △R/R ≤ ± (2%+0.05Ω) | 定格電力×10倍 5秒間負荷 1000% of rated power load for 5 seconds | | | | | | | | | | | | |
| 絶縁抵抗 Insulation resistance | 20MΩ min. | DC500V | | | | | | | | | | | | |
| 耐電圧 Dielectric withstanding voltage | 機械的損傷及び絶縁破壊なきこと No evidence of mechanical damage or insulation breakdown △R/R ≤ ± (0.1%+0.05Ω) | AC800V for one minute | | | | | | | | | | | | |
| 端子強度 Terminal strength | 機械的損傷なきこと No evidence of mechanical damage | <table border="1"> <thead> <tr> <th>端子径 (Terminal diameter)</th> <th colspan="2">荷重(Load)</th> <th></th> </tr> </thead> <tbody> <tr> <td>φ0.6</td> <td>φ0.8</td> <td></td> <td></td> </tr> <tr> <td>引張り(Pull)</td> <td>4.9N</td> <td>9.8N</td> <td>30seconds</td> </tr> </tbody> </table> | 端子径 (Terminal diameter) | 荷重(Load) | | | φ0.6 | φ0.8 | | | 引張り(Pull) | 4.9N | 9.8N | 30seconds |
| 端子径 (Terminal diameter) | 荷重(Load) | | | | | | | | | | | | | |
| φ0.6 | φ0.8 | | | | | | | | | | | | | |
| 引張り(Pull) | 4.9N | 9.8N | 30seconds | | | | | | | | | | | |
| 耐振性 Vibration | 機械的損傷なきこと No evidence of mechanical damage | X and Y each direction for 2 hours | | | | | | | | | | | | |
| 半田耐熱 Soldering heat | 機械的損傷及び外観劣化なきこと No evidence of mechanical damage and appearance deterioration △R/R ≤ ± (1%+0.05Ω) | 350°C for 3 seconds | | | | | | | | | | | | |
| 半田付け性 Solderability | 75%以上新しい半田で覆われること 75% coverage min. with new solder | 250°C for 3 seconds | | | | | | | | | | | | |

■耐候的特性 Environmental characteristics

| 特性 Characteristics | 規格値 Standards | 試験方法 Test methods |
|--|--|---|
| 耐熱性 Heat resistance | 標印、絶縁被覆に著しい損傷なきこと No deterioration of protective coatings or markings | 350±5°C for 2 hours |
| 熱衝撃 Thermal shock | 機械的損傷なきこと No evidence of mechanical damage △R/R ≤ ± (2%+0.05Ω) | 定格負荷30分間 → -40°C 15分間 Power rating load for 30 minutes → -40°C for 15 minutes |
| 耐湿性 (定常状態) Humidity (Steady state) | 標印、絶縁被覆に異常なきこと No deterioration of protective coatings or markings △R/R ≤ ± (3%+0.05Ω) | 成極DC100V 40°C 95%RH for 500 hours |
| 耐久性 (耐湿負荷) Durability (Moisture resistance) | 標印、絶縁被覆に異常なきこと No deterioration of protective coatings or markings △R/R ≤ ± (3%+0.05Ω) | 10%負荷 10% rated power load 90 minutes ON and 30 minutes OFF 40°C 95%RH for 1000 hours |
| 耐久性 (定格負荷) Durability (Nominal load) | 標印、絶縁被覆に異常なきこと No deterioration of protective coatings or markings △R/R ≤ ± (5%+0.05Ω) | 100%負荷 100% rated power load 90 minutes ON and 30 minutes OFF 70°C for 1000 hours |
| 難燃性 (過負荷) Flame resistance (Over load) | 燃焼しないこと No evidence of flaming or arcing | 定格電力の 1~16倍 100~1600% of rated power load |

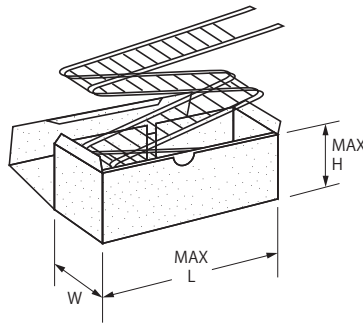
■規格 Standards

●形状・寸法 Configuration (mm)



| 形状 Type | 定格電力 (W) Power Rating | 寸法 Dimensions (mm) | | | | 抵抗値範囲 (Ω) Resistance Range |
|------------|--------------------------|--------------------|----|-----|------|-------------------------------|
| | | A | B | C | D | |
| 1W | 1 | 2.5 | 7 | 0.6 | 5.0 | 0.1 ~ 47 |
| 2W | 2 | 3.5 | 12 | 0.6 | 5.0 | 0.1 ~ 120 |
| 3W | 3 | 5.0 | 12 | 0.8 | 10.0 | 0.1 ~ 150 |

- L1 - L2 ≤ 1.0
- 累積ピッチの集積誤差20ピッチで±2mm
Accumulated pitch tolerance for 20 pitch : ±2mm
- EIAJ規格RC1008Aに準拠 EIAJ standard RC1008A applicable
- 包装仕様 Packing



| 形状 Shape | 寸法 Dimensions (mm) | | |
|-------------|--------------------|-----|-----|
| | W | L | H |
| KNT 1W | 76 | 255 | 77 |
| 2W, 3W | 70 | 255 | 125 |

■標準抵抗値

Standard resistance values JIS-E24 series

■抵抗値許容差

Resistance tolerance

$R \geq 1\Omega \dots \pm 5\%$ (J)

$R < 1\Omega \dots \pm 10\%$ (K)

■受注生産品 Products by order

■最低ロット

Minimum Order Quantity

1W 2000/箱 BOX

2、3W 1000/箱 BOX

■品番コード Explanation of Part Number

KNT 3W 100 J / RO

