

# Resistors & Potentiometers

## 5W Wirewound Resistors Flame-Proof Coating

Detailed product specifications are available on: [us.100y.com.tw](http://us.100y.com.tw)

| TEST ITEMS               | CONDITION                           | SPEC       |
|--------------------------|-------------------------------------|------------|
| Load Life                | 70°C on-off cycle 1000hrs           | ±5%        |
| Moisture-proof Load Life | 40°C 95% PH on-off cycle 500 hrs.   | ±3%        |
| Incombustibility         | 6 times of rated wattage for 5 min. | not flamed |

| Part No. | Product No.  | Description                                | Tolerance (±) | Power W | D*L(mm) | Resistance (Ω) |
|----------|--------------|--|---------------|---------|---------|----------------|
| 17438    | KNP-5W-100EJ | 5W Wirewound Resistors Flame-Proof Coating | +/-1%         | 5W      | 8.5*25  | 100 ohm        |

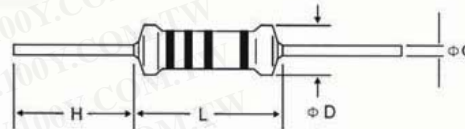


### INTRODUCTION

KNP type is to wind the resistance wire on a alkiless ceramic basic coated with non-corrosive and high insulating heat proof material.

### FEATURES

- Super heat dissipation.
- Small linear temperature coefficient.
- Instant overload capability.
- Low noise figure and without annual shift on resistance value.



| TYPE |      | DIMENSIONS(mm) |      |      |         |
|------|------|----------------|------|------|---------|
| KNP  | KNPS | D ±0.5         | L ±1 | H ±3 | d ±0.05 |
| 5W   | 7W   | 8.5            | 25   | 27   | 0.8     |

| TEST ITEMS               | CONDITION                           | SPEC        | Test Method(JIS C 5202) |
|--------------------------|-------------------------------------|-------------|-------------------------|
| Resistance Temp Coeff.   | -30°C~200°C                         | ±300 ppm/°C | 5.2                     |
| Short Time Over Load     | 5 times of rated wattage for 5 sec. | ±2%         | 5.5                     |
| Rate Load                | Rate watt 30 min.                   | ±1%         | 5.4                     |
| Voltage Durability       | 500V AC 1 min.                      | not changed | —                       |
| Insulation Resistance    | 500V megger                         | 500MΩ       | 5.6                     |
| Temp Cycle               | -30°C~85°C 5 cycles                 | ±1%         | —                       |
| Load Life                | 70°C on-off cycle 1000hrs           | ±5%         | 7.10                    |
| Moisture-proof Load Life | 40°C 95% PH on-off cycle 500 hrs.   | ±3%         | 7.9                     |
| Incombustibility         | 6 times of rated wattage for 5 min. | not flamed  | 7.13                    |

| Part No. | Product No. | Description                                | Tolerance (±) | Power W | Resistance (Ω) |
|----------|-------------|--|---------------|---------|----------------|
| 23828    | RK5W0E10FT  | 5W Wirewound Resistors Flame-Proof Coating | ±1%           | 5W      | 0.1 ohm        |
| 39865    | RK5W0E20JT  | 5W Wirewound Resistors Flame-Proof Coating | ±5%           | 5W      | 0.2 ohm        |
| 23785    | RK5W0E50FT  | 5W Wirewound Resistors Flame-Proof Coating | ±1%           | 5W      | 0.5 ohm        |

## Power Wirewound Resistors Flame-Proof Coating

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### FEATURES

These resistors are made by winding resistance ribbon around a ceramic tube in wave shape. They are extremely good in dissipation of heat, and their small size vs. large current capacity is 1.5 times that of their counterparts, the power types.

KNR type is also supplied with nonflame resin coating.

| TESTITEM                            | TEST METHODS   | CHARACTERISTICS  |
|-------------------------------------|----------------|--|
| Resistance and resistance tolerance | JIS-C-5202 5-1 | Resistance Nominal Tolerance<br>1Ω≤R 1Ω>R ±5%(J) ±10%(K) |
| Temperature coefficient             | JIS-C-5202 5-2 | ±200PPM /°C MAX  |
| Power rating load                   | JIS-C-5202 5-4 | ΔR/R≤(1%+0.05Ω) Surface temperature up 350°C MAX         |
| Short-term overload                 | JIS-C-5202 5-5 | 1000%rated power 5 seconds ΔR/R≤(2%+0.05Ω)               |
| Insulation resistance               | JIS-C-5202 5-6 | 100MΩ min DC500V   |
| Dielectric withstanding voltage     | JIS-C-5202 5-7 | AC3000V 1 mintue   |

