

Wirewound Resistors - KNP TYPE

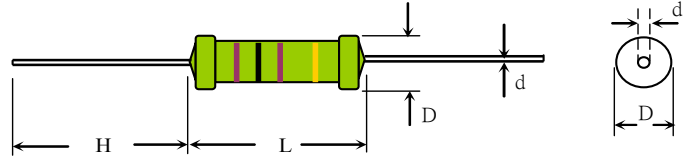
FEATURES

- Small size and low cost
- Super heat dissipation, instant overload capability
- Flameproof coating
- Standard Tolerance: $\pm 5\%$ (available 1% - 5%)
- Standard Value: E24 series as range below
- Color band marking
- Body Color: Green
- Available in non-inductive style (As NKNP type)
- Miniature size available (As KNP-S type)

MATERIAL

- Core: High purity ceramic Al_2O_3
- Element: Alloy Resistance Wire
- Termination: Standard solder-plated cooper lead
- Coating: Green silicone

DIMENSION



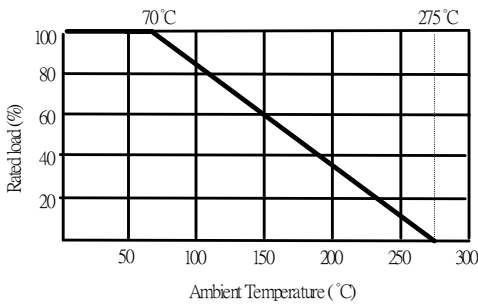
GENERAL SPECIFICATION

| TYPE | DIMENSION (mm) | | | | POWER RATING | MAXIMUM WORKING VOLT | RESISTANCE RANGE | |
|---------|----------------|---------------|--------------|--------------|--------------|----------------------|----------------------------|---------------|
| | L | D | H | $d \pm 0.05$ | | | STANDARD | MAXIMUM |
| KNP050 | 9.0 \pm 1.0 | 3.2 \pm 1.0 | 28 \pm 3.0 | 0.65 | 1/2W | $E = \sqrt{PxR}$ | 0.1 Ω ~80 Ω | 300 Ω |
| KNP100S | 9.0 \pm 1.0 | 3.2 \pm 1.0 | 28 \pm 3.0 | 0.65 | 1WS | | 0.1 Ω ~80 Ω | 300 Ω |
| KNP100 | 11.0 \pm 1.0 | 4.0 \pm 1.0 | 35 \pm 3.0 | 0.80 | 1W | | 0.1 Ω ~100 Ω | 1.5K Ω |
| KNP200S | 11.0 \pm 1.0 | 4.0 \pm 1.0 | 35 \pm 3.0 | 0.80 | 2WS | | 0.1 Ω ~100 Ω | 1.5K Ω |
| KNP200 | 15.0 \pm 1.0 | 5.0 \pm 1.0 | 35 \pm 3.0 | 0.80 | 2W | | 0.1 Ω ~100 Ω | 2.0K Ω |
| KNP300S | 15.0 \pm 1.0 | 5.0 \pm 1.0 | 35 \pm 3.0 | 0.80 | 3WS | | 0.1 Ω ~100 Ω | 2.0K Ω |
| KNP300 | 17.0 \pm 1.0 | 6.0 \pm 1.0 | 38 \pm 3.0 | 0.80 | 3W | | 0.1 Ω ~150 Ω | 3.0K Ω |
| KNP400 | 17.0 \pm 1.0 | 6.0 \pm 1.0 | 38 \pm 3.0 | 0.80 | 4W | | 0.1 Ω ~150 Ω | 3.0K Ω |
| KNP500S | 17.0 \pm 1.0 | 6.0 \pm 1.0 | 38 \pm 3.0 | 0.80 | 5WS | | 0.1 Ω ~150 Ω | 3.0K Ω |
| KNP500 | 25.0 \pm 1.0 | 8.0 \pm 1.0 | 38 \pm 3.0 | 0.80 | 5W | | 0.1 Ω ~150 Ω | 4.0K Ω |

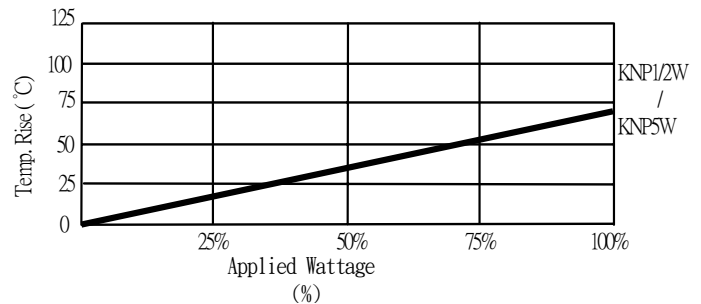
* Maximum overload voltage equals to $\sqrt{PxRx10}$

* Resistance values out of standard range is available on request

DERATING CURVE



TEMPERATURE RISE



CHARACTERISTIC

| | |
|---------------------------|--------------------------|
| Temperature Coefficient | ± 300 ppm |
| Insulation Resistance | 10,000M Ω Min. |
| Load Life (1000 hours) | $< \pm 5\% + 0.05\Omega$ |
| Shorttime Overload | $< \pm 2\% + 0.05\Omega$ |
| Temperature Cycling | $< \pm 1\% + 0.05\Omega$ |
| Moisture Resistance | $< \pm 5\% + 0.05\Omega$ |
| Shock & Vibration | $< \pm 1\% + 0.05\Omega$ |
| Effect of Soldering | $< \pm 2\% + 0.05\Omega$ |
| Working temperature range | -55 ~ +155 $^{\circ}$ C |

HOW TO ORDER :

| KNP100 | J | TB | 10R |
|------------|--------------|--------------|---------------------|
| ↓ | ↓ | ↓ | ↓ |
| Type/Power | Tol. | Package | Resistance |
| KNP050 | F= $\pm 1\%$ | B=Bulk | 10R = 10 Ω |
| KNP100 | G= $\pm 2\%$ | TB=Tape/box | 1K2 = 1.2K Ω |
| KNP200 | J= $\pm 5\%$ | TR=Tape/reel | 1M = 1M Ω |
| KNP300 | | Lead forming | |
| KNP400 | | M | |
| KNP500 | | F | |

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