

繞線電阻

KNP Series

Wire Wound Resistor (0.5W ~ 15W)

FEATURE

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

Figure



◆ ORDERING

Example: KNP100A101JB (1W 100R ±5%)

Type	Power	Forming	Resistance	Tolerance	Package
KNP050	1/2W	A=Axial	R100 =0.1Ω	F = ±1%	T = T/Box
KNP100S	1WS	O=Others	1R0 =1Ω	G = ±2%	B = Bulk
KNP100	1W		100 =10Ω	J = ±5%	R = Reel
KNP200S	2WS		101 =100Ω	K = ±10%	
KNP200	2W		102 =1KΩ		
KNP300S	3WS		103 =10KΩ		
KNP300	3W		104 =100KΩ		
KNP400	4W		105 =1MΩ		
KNP500S	5WS				
KNP500	5W				
KNP700	7W				
KNP10W	10W				
KNP15W	15W				

GENERAL SPECIFICATION

Type	Power	Resistance Range		Package	Type	Power	Resistance Range		Package
		Standard	Maximum				Standard	Maximum	
KNP050	1/2W	0.1 ~ 80Ω	330Ω	Tape Box	KNP700	7W	1 ~ 470Ω	3.3KΩ	Bulk
KNP100S	1WS	0.1 ~ 80Ω	330Ω	Tape Box	KNP10W	10W	2 ~ 1KΩ	4.7KΩ	Bulk
KNP100	1W	0.1 ~ 100Ω	1.5KΩ	Tape Box	KNP15W	15W	2 ~ 1K5Ω	4.7KΩ	Bulk
KNP200S	2WS	0.1 ~ 100Ω	1.5KΩ	Tape Box					
KNP200	2W	0.1 ~ 100Ω	2.2KΩ	Tape Box					
KNP300S	3WS	0.1 ~ 100Ω	2.2KΩ	Tape Box					
KNP300	3W	0.1 ~ 150Ω	3.3KΩ	Tape Box					
KNP400	4W	0.1 ~ 150Ω	3.3KΩ	Tape Box					
KNP500S	5WS	0.1 ~ 150Ω	3.3KΩ	Tape Box					
KNP500	5W	0.1 ~ 150Ω	4.3KΩ	Tape Box					

Rated continuous Working Voltage (RCWV) = $\sqrt{\text{POWER.RATING} * \text{RESISTANCE.VALUE}}$

CHARACTERISTIC	0.5W~5W	7W~15W
Temperature coefficient	±300ppm	±250ppm
Insulation resistance	10,000M Ω Min.	
Load Life (1000 hours)	<±5% +0.05Ω	
Shorttime overload	<±2% +0.05Ω	
Temperature Cycling	<±1% +0.05Ω	
Moisture Resistance\	<±5% +0.05Ω	
Shock & Vibration	<±1% +0.05Ω	
Effect of Sodering	<±2% +0.05Ω	
Working temperature range	-55 ~ +155°C	

MATERIAL

- ◆ Core: High purity ceramic Al₂O₃.
- ◆ Element: Alloy Resistance Wire
- ◆ Termination: Standard solder-plated cooper lead
- ◆ Coating: Gray silicone.



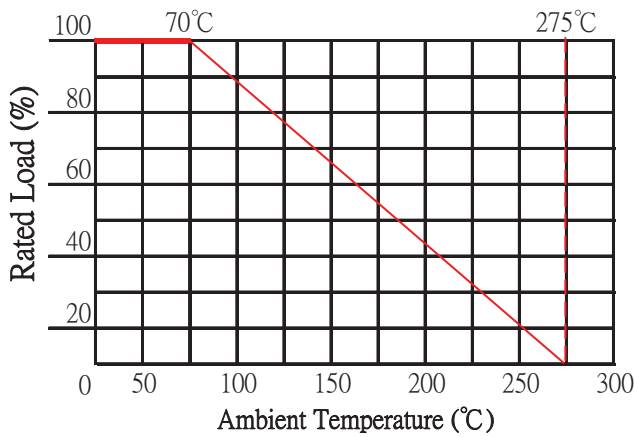
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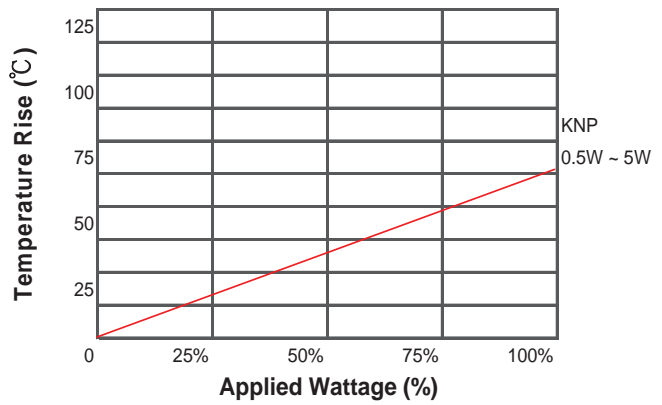
◆ **EXTERNAL DIMENSIONS**

Type	Dimensions (mm)				Power	Figure
	L	ΦD	Φd	H		
KNP050	9.0±1.0	3.2±0.5	0.6±0.02	28±3.0	1/2W	
KNP100S	9.0±1.0	3.2±0.5	0.6±0.02	28±3.0	1WS	
KNP100	11.0±1.0	4.5±1.0	0.8±0.02	35±3.0	1W	
KNP200S	11.0±1.0	4.5±1.0	0.8±0.02	35±3.0	2WS	
KNP200	15.0±1.0	5.0±1.0	0.8±0.02	35±3.0	2W	
KNP300S	15.0±1.0	5.0±1.0	0.8±0.02	35±3.0	3WS	
KNP300	17.0±1.0	6.0±1.0	0.8±0.02	38±3.0	3W	
KNP400	17.0±1.0	6.0±1.0	0.8±0.02	38±3.0	4W	
KNP500S	17.0±1.0	6.0±1.0	0.8±0.02	38±3.0	5WS	
KNP500	25.0±1.0	8.0±1.0	0.8±0.02	38±3.0	5W	
KNP700	30.0±1.0	8.0±1.0	0.8±0.02	38±3.0	7W	
KNP10W	42.0±1.0	8.0±1.0	0.8±0.02	38±3.0	10W	
KNP15W	53.0±1.0	8.0±1.0	0.8±0.02	38±3.0	15W	

◆ **Derating Curve**



◆ **Temperature Rise (0.5W ~ 5W)**



◆ **Temperature Rise (7W ~ 15W)**

