

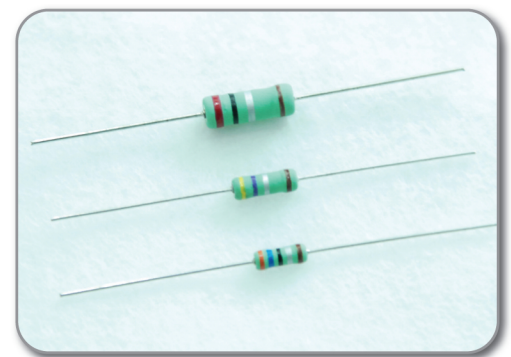
# WNP series

## Non-Inductive Wire Wound Resistor

Non-Inductive Wire Wound Resistors are plated with ceramic rod wire wound and then is coated with silicon paint.

### Feature

- Non inductive characteristics, suitable high frequency circuit
- Coated with silicone resin of high resistance
- Ceramic rod results in performance levels far superior to general fiberglass core
- Available to high resistance by automatic winding
- Miniature size : (WNPS 1W, 2W, 3W, 5W) result in 50% space saving
- Coating Color : Silicon
- WNP (Standard) : Light Green
- WNPS (Mini) : Light Green
- Making : Color Coding
- Available Type : TC, TB, TR, TT, M-F, R-F (Please refer to 'Reference 1.TYPE')



### Description



Product Code



Power Rating



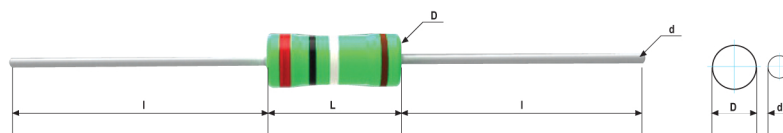
Shape



Nominal Resistance



Resistance Tolerance



### Dimension

Type	Dimension (mm)			
	L	D	l	d
WNP 1/2W	9.0±1.0	3.5±0.5	30.0±1.0	0.70±0.05
WNPS 1W	9.0±1.0	3.5±0.5	30.0±1.0	0.70±0.05
WNP 1W	11.0±1.0	4.0±0.5	30.0±1.0	0.70±0.05
WNPSS 2W	9.0±1.0	3.5±0.5	30.0±1.0	0.70±0.05
WNPS 2W	11.0±1.0	4.0±0.5	30.0±1.0	0.70±0.05
WNP 2W	15.0±1.0	5.5±1.0	28.0±1.0	0.80±0.05
WNPS 3W	15.0±1.0	5.5±1.0	28.0±1.0	0.80±0.05
WNPS 5W	17.0±1.0	6.0±1.0	27.0±1.0	0.80±0.05

\*Specifications given herein are changeable under to discuss with user and maybe changed at anytime without prior notice.

## Rating

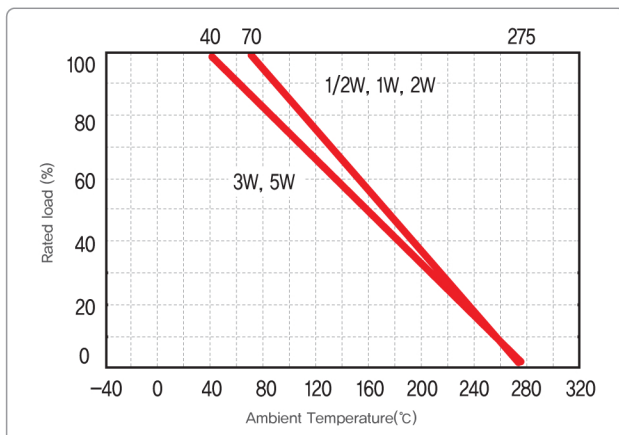
Type	Power Rating(W)	Max Working-Voltage(V)	Max Overload Voltage(V)	Dielectric Withstanding Voltage(V)	Operating Temp.(°C)	Resistance Range(Ω)	Resistance Tolerance (%)
WNP 1/2W	1/2	150	300	600	-40 ~ 155	0.01 ~ 10	D (±0.5%) F (±1%) G (±2%) J (±5%) K (±10%) L (±15%)
WNPS 1W	1	150	300	600			
WNP 1W	1	150	300	600			
WNPSS 2W	2	200	400	600			
WNPS 2W	2	200	400	600			
WNP 2W	2	200	400	600			
WNPS 3W	3	250	500	600			
WNPS 5W	5	350	700	600			

\* Other than those listed above resistance tolerance is ever set in consultation with the user side.

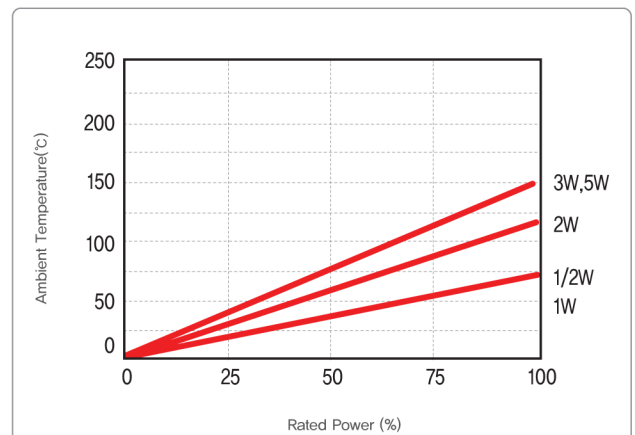
## Performance

Test Items	Performance Requirements	Test Methods
Resistance	With specified tolerance	Measure resistance at 25°C
Temperature Coefficient Resistance	±400PPM / °C	+25°C / +125°C
Short Time Over Load	±2%	Rated voltage x 2.5 for 5sec Max overload voltage
Resistance Against Soldering Test	±1%	260±3°C, 2~2.5mm, 5±1sec measure resistance After 1hr at room temp
Load Life in Temperature	±5%	40±2°C, 90~95% RH, 1.5hr ON/0.5hr OFF, 120hr
Load Life in Moisture	±5%	70±2°C, 1.5hr ON/0.5hr OFF, 120hr
Inductance	Value ≤ 290nH	Frequency 100KHz, Voltage 1V

## Derating Curve



## Surface Temperature Rise



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