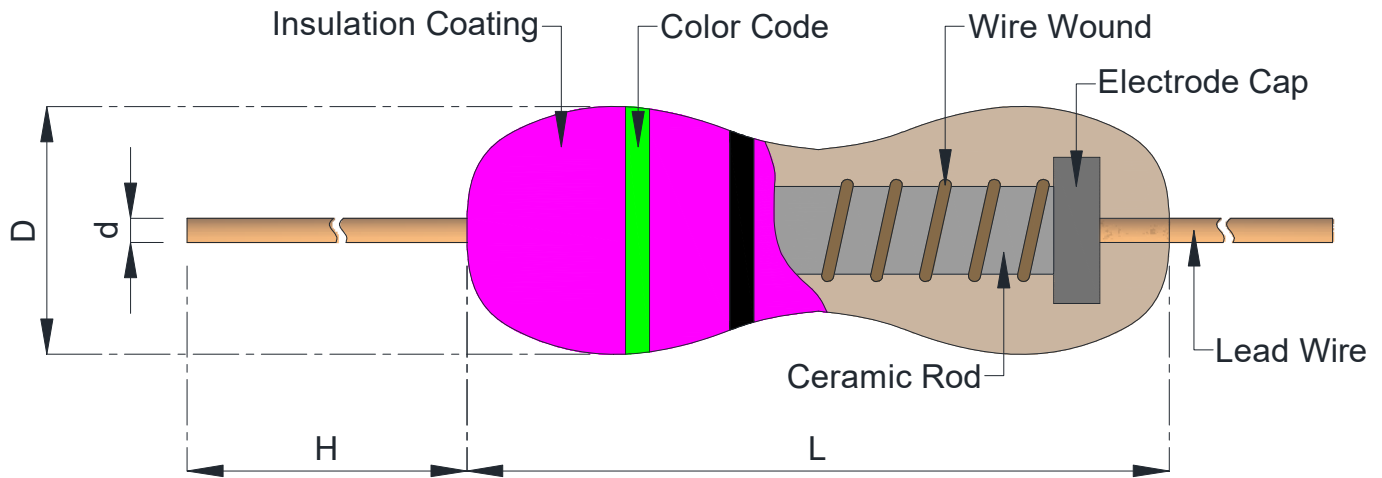


- PRODUCT FEATURES :
 - ⊙ Super heat dissipation ; Small linear temperature coefficient
 - ⊙ Instant overload capability ; Low noise figure and without annual shift on resistance value
 - ⊙ Complete flameproof construction UL-1412
 - ⊙ Value Range 、 $\pm 5\%$ 、 $\pm 2\%$ 、 $\pm 1\%$
 - ⊙ RoHS compliant
- Power ratings Dimensions



⊙ Standard Type: 1WSS-7WSS

● Dimensions

STYLE	DIMENSIONS(mm)				Value Range
	L	D	H	d	
KNP-1WSS	6.3 \pm 0.5	2.3 \pm 0.3	28 \pm 2.0	0.55 \pm 0.03	1 Ω ~50 Ω
KNP-2WSS	9.0 \pm 0.5	3.2 \pm 0.5	26 \pm 2.0	0.65 \pm 0.03	0.01 Ω ~150 Ω
KNP-3WSS	11.5 \pm 1.0	4.5 \pm 0.5	35 \pm 2.0	0.78 \pm 0.03	0.01 Ω ~470 Ω
KNP-4WSS	15.5 \pm 1.0	5.0 \pm 0.5	32 \pm 2.0	0.78 \pm 0.03	0.01 Ω ~470 Ω
KNP-7WSS	17.5 \pm 1.0	6.0 \pm 0.5	32 \pm 2.0	0.78 \pm 0.03	0.01 Ω ~470 Ω

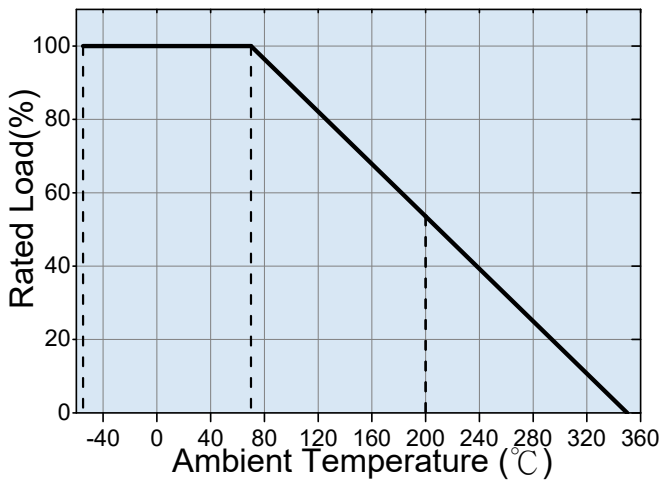
★ Value Range for standard resistance , below or over this resistance on request

★ Non-inductive type up 50 Ω only

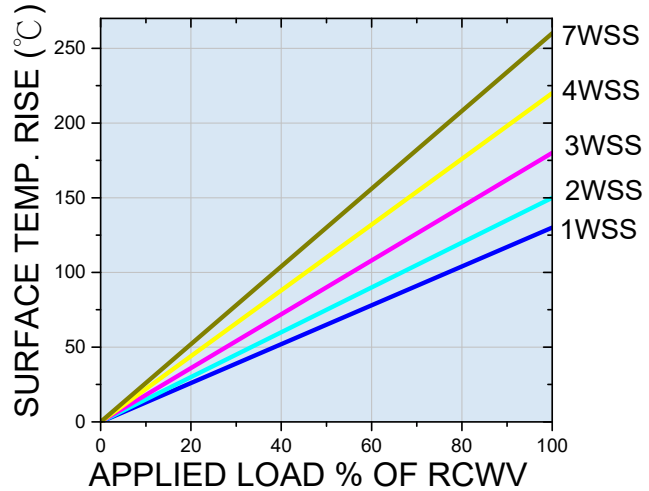
● ELECTRICAL CHARACTERISTICS

STYLE	1WSS	2WSS	3WSS	4WSS	7WSS
Operating Temp. Range	-40 $^{\circ}$ C to +200 $^{\circ}$ C				
Resistance Temp. Coeff.	± 300 PPM/ $^{\circ}$ C ; ± 50 PPM/ $^{\circ}$ C.				

●POWER GRAPH



●HOT-SPOT TEMPERATURE



● ENVIRONMENTAL CHARACTERISTICS

PERFORMANCE TEST	TEST METHOD	APPRAISE
SHORT TIME OVERLOAD	Rated power x 10 for 5 seconds	±(2%+0.05Ω)
TEMPERATURE COEFFICIENT	Resistance value at room Temperature and room Temperature+100°C	By Type
DIELECTRIC WITHSTANDING VOLTAGE	In V-Block for 60 seconds	By Type
INSULATION RESISTANCE	In V-Block	> 100MΩ
LOAD LIFE	70°C at RCWV for 1000hrs. (1.5hrs. on , 0.5hrs.off)	±(5%+0.05Ω)
LOAD LIFE IN HUMIDITY	40±2°C, 90-95% RH for 56 days, loaded with 0.1 times RCWV (1.5hrs. on , 0.5hrs.off)	±(5%+0.05Ω)
SOLDER ABILITY	260±5°C for 2±0.5 seconds	95% min. coverage
TERMINAL STRENGTH	Direct load for 10 sec. In the direction off the terminal leads.	Tensile: ≥2.5kg

Reference Standards: IEC 60115-1

Storage Temperature: 25±3°C; Humidity < 80%RH

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

● Resistor body color-----Pink

● PART NUMBER: (Example: KNP1WSS0R3JTB50PPM)

KNP	3WSS	10R	J	TB / PPM/°C
↓	↓	↓	↓	↓
Type	Power rating	Resistance	J	Packaging
KNP Wire Wound	1WSS	0R3 0.3Ω	F ± 1%	TB Taping Box
NKNP Non Inductive	2WSS	10R 10Ω	G ± 2%	TR Taping Reel
	3WSS	100R 100Ω	J ± 5%	BU Bulk
	4WSS			F F-TYPE
	7WSS			M M-TYPE