Wire Wound Leaded Resistor
High Power Axial Leaded Type

KNP-SS Series

MERITEK

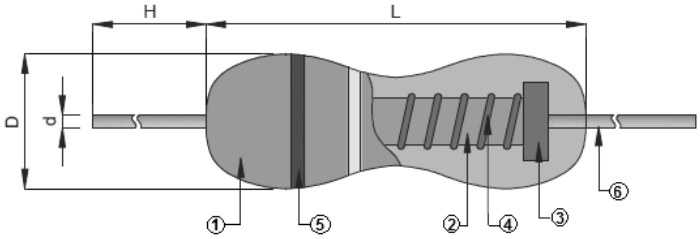
FEATURE

- Super Heat Dissipation
- Small Linear Temperature Coefficient
- Low Noise Figure and No Annual Shift on Resistance Value
- Instant Overload Capability
- Meet Flameproof Construction UL94V-0
- Resistance standard tolerance: ±5%、±2%、±1%

RoHS

ELECTRICAL CHARACTERISTICS

Item	Power Rating at 70°C	Resistance	Dimensions (mm)				Operating Temperature	Temperature Coefficient Resistance	Body Color
	(W)	(Ω)	D	L	H	d	(°C)	(PPM/°C)	
KNP2SS	2	0.1~200	3.2±0.5	9.0±0.5	26±2.0	0.65±0.03	-55 ~ +350	±400	Pink
KNP3SS	3	0.1~470	4.5±0.5	11.5±1.0	35±2.0	0.78±0.03			
KNP5SS	5	0.1~1K	5.0±0.5	15.5±1.0	32±2.0	0.78±0.03			
KNP7SS	7	0.1~1K	6.0±0.5	17.5±1.0	32±2.0	0.78±0.03			
KNP10SS	10	0.1~1K	8.0±0.5	24.5±1.0	38±2.0	0.78±0.03			



Item	Construction	Item	Construction
1	Insulation Coating	4	Alloy Wire Wound Film
2	Ceramic Rod	5	Color Code
3	Electrode Cap	6	Lead Wire

Notes:
1. Non-inductive type up 50Ω only

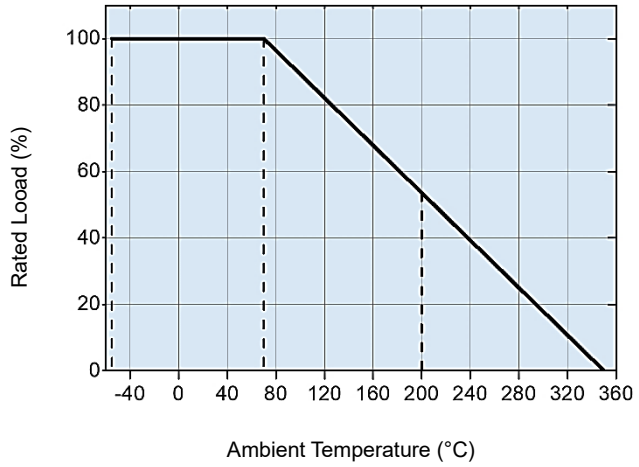
PART NUMBERING SYSTEM

KNP	3SS	100J	TA	200
(1)	(2)	(3)	(4)	(5)

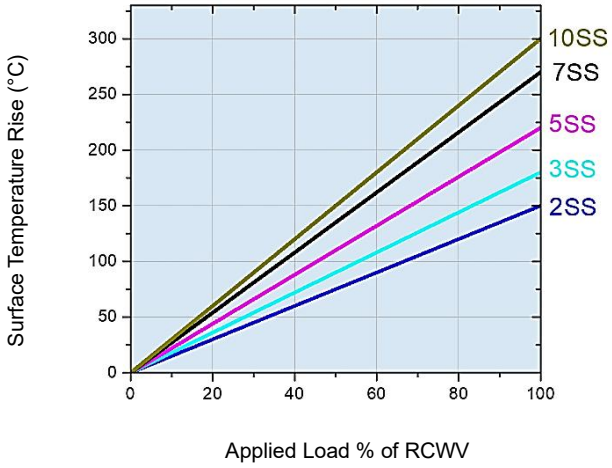
No	Item	Code	Description	Series Reference
(1)	Product Code	KNP	Wire Wound Leaded Resistor	Axial Leaded Type
(2)	Power Rating	3SS	3W Power Rating at 70°C	2, 5, 7, 10W Power Rating at 70°C
(3)	Resistance	100J	100J: 10Ω ±5% (J)	First two digits: significant, Third: Multiplier
(4)	Packaging	TA	Tape and Box	B: Bulk, TR: Tape and Reel
(5)	T.C.R	200	±200PPM/°C for Optional	Blank: ±400PPM/°C

CHARACTERISTIC CURVES

Power Derating Curve



Hot-Spot Temperature



RELIABILITY TEST CONDITION AND REQUIREMENT

Test	Condition	Requirement
Dielectric Withstanding Voltage	In V-Block for 60 seconds, Test voltage by type	By Type
Insulation Resistance	In V-Block	>100MΩ
Load Life	70°C at RCWV for 1000 hrs, (1.5 hrs on, 0.5 hrs off)	±(3.0% + 0.05Ω)
Short Time Overload	Rated Power x 5 for 5 seconds (3W and smaller) Rated Power x 10 for 5 seconds (4W and larger)	±(2.0% + 0.05Ω)
Solderability	260±5°C for 2±0.5 seconds	95% Min Coverage
Terminal Strength	Direct load for 10 seconds in the direction of the terminal leads	Tensile: ≥2.5kg

Notes:
1. Reference Standards: IEC 60115-1
2. Storage Temperature: 25±3ºC; Humidity<80% R.H
3. Rated Continuous Working Voltage (RCWV) = $\sqrt{Power.Rating * Resistance.Value}$

*Specifications subject to change without notice.