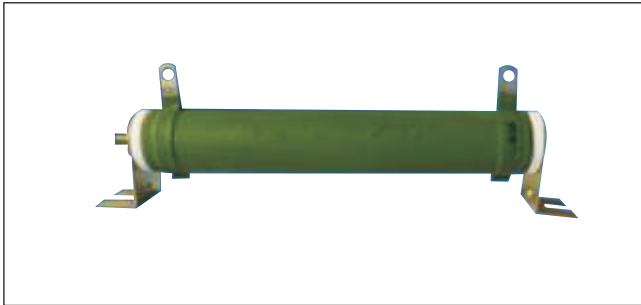




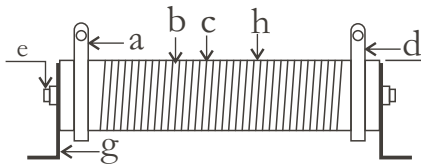
● Features

- I Surface painted, wide power range
- II Excellent high temperature load performance
- III Non-inductive wire wound style
- IV High reliability
- V Imported grey and green coating, character marking assembly and fittings (available)
- VI Resistance tolerance: $\pm 1\%$ 、 $\pm 2\%$ 、 $\pm 5\%$ 、 $\pm 10\%$

● Application

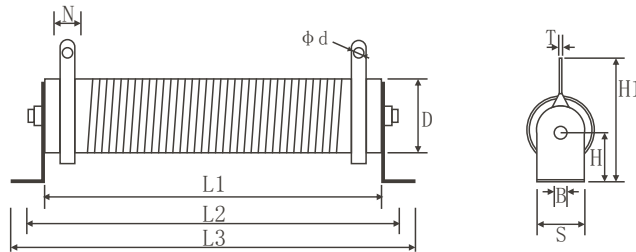
- I Mostly used in large power supply
- II Electricity equipment
- III Electrical equipment
- IV Locomotive

● Construction



ad	Terminal block
b	Epoxy resin insulating layer
c	Alloy wire
e	Metal screw
g	Zinc plating support
h	Alumina porcelain

● Dimensions



Type	Power	Dimensions (mm)										
		L1 ± 5	L2 ± 5	L3 ± 5	D ± 2	B ± 1	H ± 1	H1 ± 3	S ± 2	N ± 2	ϕ d ± 1	T ± 0.5
NKNG	20W	60	75	84	18	5	25	34	20	6	3.5	1.0
NKNG	30W	82	104	120	20	5	25	34	20	6	3.5	1.0
NKNG	50W	102	124	146	28	6.5	28	68	28	8	4.5	1.5
NKNG	60W	102	124	146	28	6.5	28	68	28	8	4.5	1.5
NKNG	80W	152	174	196	28	6.5	28	68	28	8	4.5	1.5
NKNG	100W	182	204	226	28	6.5	28	68	28	8	4.5	1.5
NKNG	150W	225	247	270	28	6.5	28	68	28	8	5.5	2.0
NKNG	200W	225	247	270	28	6.5	28	68	28	8	5.5	2.0
NKNG	300W	285	304	345	40	6.5	40	85	40	10	5.5	2.0
NKNG	400W	316	338	375	40	6.5	40	85	40	10	5.5	2.0
NKNG	500W	318	338	378	50	6.5	45	100	50	10	6.0	2.0
NKNG	600W	348	368	408	50	6.5	45	100	50	10	6.0	2.0
NKNG	750W	303	330	368	50	8.5	58	115	60	12	6.0	2.0
NKNG	1000W	303	330	368	60	8.5	58	115	60	12	6.0	2.0
NKNG	1200W	418	445	485	60	8.5	58	115	60	12	6.0	2.0
NKNG	1500W	418	445	485	60	8.5	58	115	60	12	6.0	2.0
NKNG	2000W	513	540	580	60	8.5	60	119	60	12	6.5	2.0
NKNG	2500W	603	630	670	60	8.5	60	119	60	12	6.5	2.0
NKNG	3000W	433	475	525	100	8.5	82	170	100	15	6.5	2.0
NKNG	5000W	448	505	525	150	10	120	230	150	30	10.0	4.0
NKNG	10000W	900	925	980	150	10	120	230	150	30	10.0	4.0

Note: Customized products please contact kwx@kwxcom.com

● Ordering Information

Example:

NKNG	300	J	10R00	A
(1)	(2)	(3)	(4)	(5)
Series Name	Power Rating	Resistance Tolerance	Resistance	Special code

(1)Type: NKNG SERIES

(2)Power Rating: 10B=10W,50B=50W,100=100W,300=300W

(3)Tolerance: J= ± 5%,K= ± 10%

(4)Resistance Value:0R100=0.1Ω,0R200=0.20Ω,10R00=10Ω,10K00=10KΩ

(5)Special code: A1=Without brackets,A2=With brackets

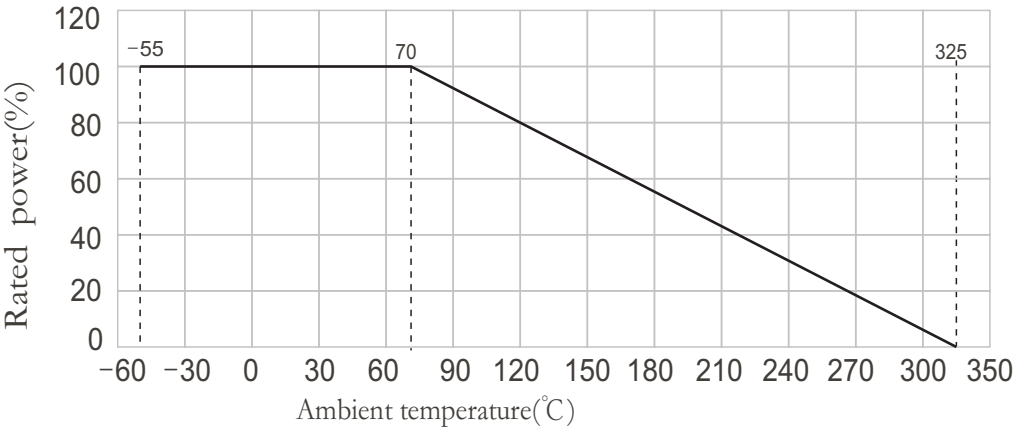
● Reference Standards

JISC 5201-1

● Applications And Ratings

Type	Power (W)	Resistance Range(Ω)	Tolerance	T.C.R PPM/℃	Operating Temp.Range	Max Working Voltage (V)	Max Overload Voltage (V)
NKNG	20W	0.1Ω~3KΩ	± 1% 				

Derating Curve



Performance

Test Items	Performance	Test Methods(JIS C 5201-1)
Temperature coefficient	$\pm 350\text{PPM}/^{\circ}\text{C}$	Test resistance value at normal temperature and normal temperature added 100℃ , calculate 70℃ resistance value change rate.
Short-time overload	$\Delta R \leq \pm (2\%R_0 + 0.05\Omega)$	According 10 times rated power to account the power or max. overload voltage(get the lower) for 5seconds.
Resistance to soldering heat	$\Delta R \leq \pm (1\%R_0 + 0.05\Omega)$	Immerge into the 350±10℃ tin stove for 2~3 seconds
Solderability	Tth soldering area is over 98%	Immerge into the 245±3℃ tin stove for 2~3 seconds
Temperature cycle	$\Delta R \leq \pm (1\%R_0 + 0.05\Omega)$	At -55℃ for 30min, then at +25℃ for 10~15min, then at +155℃ for 30min, then at +25℃ for 10~5, min, total 5cycles.
Load life in humidity	$\Delta R \leq \pm (5\%R_0 + 0.05\Omega)$	Overload rated voltage or Max.working voltage(get the lower)for 1000hours(1.5hours on and half-hour off) at the 40±2℃ and 90~95% relative humidity.
Load life in heat	$\Delta R \leq \pm (5\%R_0 + 0.05\Omega)$	Overload rated voltage or Max.working voltage(get the lower)for 1000hours(1.5 hours on and half-hour off) at the 70±2℃.
Nonflammability	No visible flame	Respectively load AC voltage by 5,10,16 times rated power for 5 minutes.