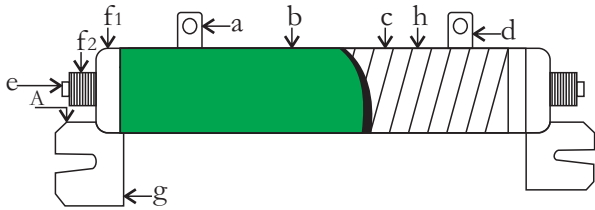


## ● Features

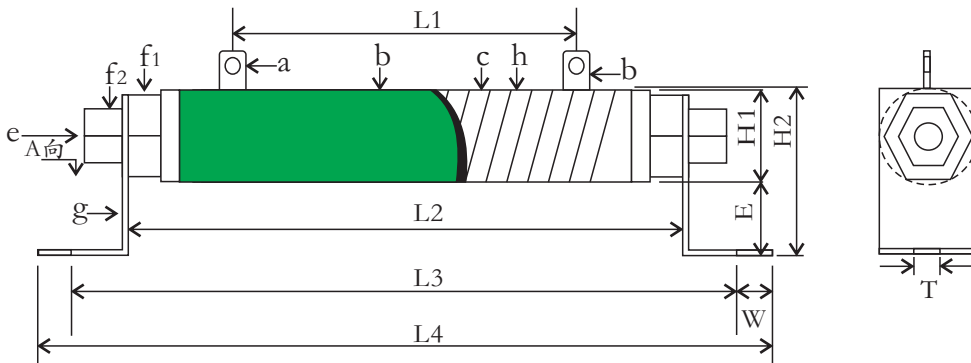
- I Surface glazed, won't be easily polluted or eroded by chemistry gas, high insulating capacity, can resist humidity and heat well, can be used in the atrocious environment.
- II Good overload and heat durability capacity , the useful time is longer than the others, withstand high voltage.
- III Resistance tolerance:  $\pm 5\%$ 、 $\pm 10\%$

## ● Construction



a/d	Terminal block
b	High voltage insulation ceramic glaze covering
c	Alloy wire
e	Epoxy screw
f1,f2	Epoxy accessories
g	Zinc plating support
h	Alumina porcelain

## ● Dimensions



Type	Power	Resistance range	Dimensions(mm)								
			Fixed type	L1	L2	L3	L4	H1	H2	W	T
KNU100	100W	5R1-100K	190 $\pm$ 2	215 $\pm$ 2	275 $\pm$ 2	325 $\pm$ 2	30 $\pm$ 2	60 $\pm$ 2	14 $\pm$ 1	6.5 $\pm$ 1	15 $\pm$ 1
KNU200	200W	5R1-100K	245 $\pm$ 2	265 $\pm$ 2	315 $\pm$ 2	320 $\pm$ 2	30 $\pm$ 2	60 $\pm$ 2	14 $\pm$ 1	6.5 $\pm$ 1	15 $\pm$ 1
KNU300	300W	5R1-200K	225 $\pm$ 2	250 $\pm$ 2	300 $\pm$ 2	360 $\pm$ 2	42 $\pm$ 2	80 $\pm$ 2	20 $\pm$ 1	7 $\pm$ 1	20 $\pm$ 1
KNU400	400W	5R1-200K	275 $\pm$ 2	300 $\pm$ 2	350 $\pm$ 2	410 $\pm$ 2	52 $\pm$ 2	90 $\pm$ 2	20 $\pm$ 1	7 $\pm$ 1	20 $\pm$ 1
KNU500	500W	5R1-200K	305 $\pm$ 2	330 $\pm$ 2	380 $\pm$ 2	440 $\pm$ 2	52 $\pm$ 2	90 $\pm$ 2	20 $\pm$ 1	7 $\pm$ 1	20 $\pm$ 1

Note: We can according customer requirements to customize the specification and dimension, also can product multiple resistance value of one ceramic tube or cancel the fixed plank.

## ● Ordering Information

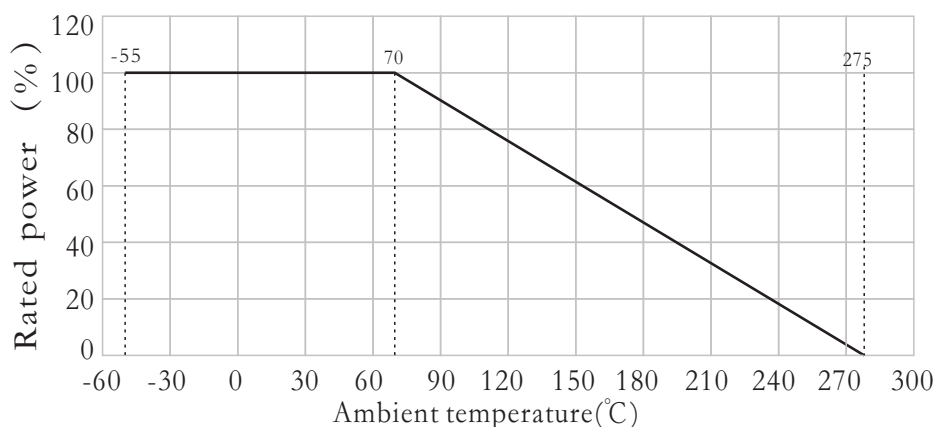
Example:	KNU	300	J	10R00
	(1)	(2)	(3)	(4)
	Series Name	Power Rating	Resistance Tolerance	Resistance

- (1) Type: KNU SERIES
- (2) Power Rating: 300=300W
- (3) Tolerance: J=±5%、K=±10%
- (4) Resistance Value: 0R100=0.1Ω、0R200=0.20Ω、10R00=10Ω、10K00=10KΩ

## Reference Standards

JISC 5201-1

## Derating Curve



## Performance

Test Items	Performance	Test Methods(JIS C 5201-1)
Temperature coefficient	±250ppm/°C	Test resistance value at normal temperature and normal temperature added 100°C, calculate °C resistance value change rate.
Short-time overload	$\Delta R \leq \pm(2\%R0+0.05\Omega)$	According 10 times rated power to account the power or max. overload voltage(get the lower) for 5seconds.
Resistance to soldering heat	$\Delta R \leq \pm(1\%R0+0.05\Omega)$	Immerge into the 350 ± 10°C tin stove for 2~3 seconds
Solderability	Tth soldering area is over 95%	Immerge into the 245 ± 3°C tin stove for 2~3 seconds
Temperature cycle	$\Delta R \leq \pm(1\%R0+0.05\Omega)$	At -55°C for 30min, then at +25°C for 10~15min, then at +155°C for 30min, then at +25°C for 10~5, min, total 5cycles.
Load life in humidity	$\Delta R \leq \pm(5\%R0+0.05\Omega)$	Overload rated voltage or Max.working voltage(get the lower)for 1000hours(1.5hours on and half-hour off) at the 40 ± 2°C and 90~95% relative humidity.
Load life in heat	$\Delta R \leq \pm(5\%R0+0.05\Omega)$	Overload rated voltage or Max.working voltage(get the lower)for 1000hours (1.5hours on and half-hour off) at the 70 ± 2°C.
Nonflammability	No visible flame	Respectively load AC voltage by 5,10,16 times rated power for 5 minutes.
Withstand voltage	DC ≥ 3500V	Pressure testre, measurement according to be line end and resistance body between the dielectric strength