

Wirewound Resistors

Features :

- Wide resistance range: 0.1 Ω ~ 33 k Ω .
- Low cost, Excellent pulse load capability.
- Wide range of power ratings : 0.5W ~ 12W.
- Operating temperature Range : -40°C ~ 155°C.
- Products with Pb-free Terminations and RoHS compliant.

Applications :

- Consumer applications, Power tools, Ballast,
- Power supplies, Welders, High voltage applications, Home entertainment, appliances

Wirewound Resistors Out size :

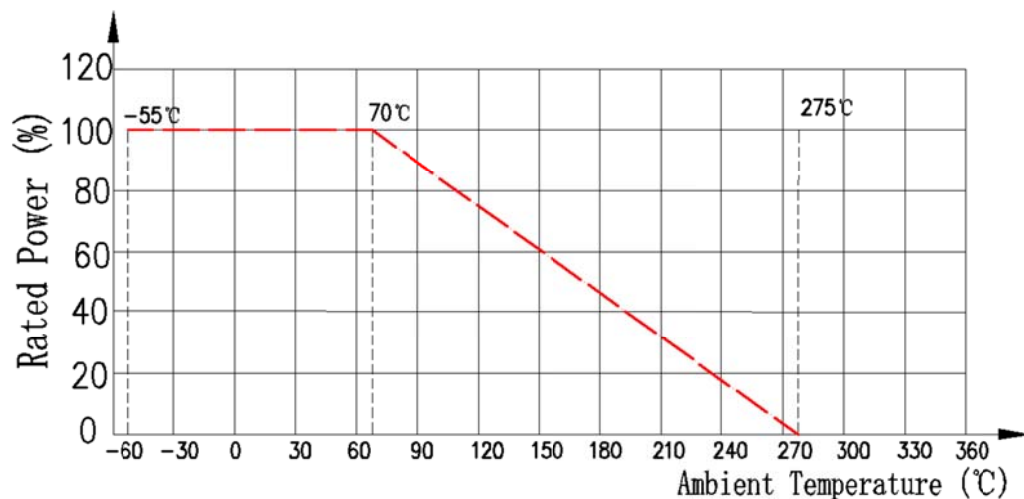


Type	Power(W)	Resistance (Ω)	Tolerance	Out Size(mm)			
				Dmax	Lmax	d	l
KNP	1/2W	0.1~510	$\pm 5\%$	3.5	10	≥ 0.35	25 ± 3
	1W	0.1~3K	$\pm 5\%$	3.5	12	≥ 0.35	
	2(3)W	0.1~5.1K	$\pm 5\%$	5	13.5	≥ 0.5	
	4(6)W	0.1~10K	$\pm 5\%$	7.5	23.5	≥ 0.5	
	8(10)W	0.1~33K	$\pm 5\%$	8.5	32.5	≥ 0.5	
	12W	0.1~33K	$\pm 5\%$	8.5	47	≥ 0.7	

Electrical Performance:

1. Rated power

The rated power indicates the maximum power the resistor can endure continuously when the ambient temperature is equal to or lower than 70°C. When the ambient temperature is higher than 70°C, the rated power of the resistor is determined by the derating curve described in the following figure.



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TEST ITEMS	SPECIFICATIONS	TEST METHODS(JIS5202)
Resistance Temp. Coeff. (TCR or α_r)	R \geq 10 Ω 10 Ω > R > 5 Ω R < 5 Ω	\pm 350PPM/ $^{\circ}$ C \pm 500PPM/ $^{\circ}$ C Not
DC RESISTANCE	\pm 5% (J) ; \pm 2% (G) ; \pm 1% (F)	TA 25 $^{\circ}$ C
Voltage Withstanding	NO EVIDENCE OF FLASHOVER MECHANICAL AMAGE , ARCING OF INSULATION BREAKDOWN	500VAC 1 min
INSULATION RESISTANCE	1000M Ω MIN	R \geq 1 G Ω
HUMIDITY	Δ R \leq \pm (2%R _O +0.1 Ω)	40 \pm 2 $^{\circ}$ C,95% RH,the place for 1000 hrs.
DAMP HEAT STEADY STATE	Δ R \leq \pm (5%R _O +0.1 Ω)	40 \pm 2 $^{\circ}$ C,95% RH,the Rated DC Voltage test 1.5hrs, 0.5hrs to stop the place for 1000 hrs.
ENDURANCE AT 70 $^{\circ}$ C	Δ R \leq \pm (5%R _O +0.1 Ω)	70 $^{\circ}$ C on ~ off cycle 1000 hrs.
ENDURANCE AT 25 $^{\circ}$ C	Δ R \leq \pm (5%R _O +0.1 Ω)	25 \pm 2 $^{\circ}$ C on ~ off cycle 1000 hrs.
Short Time Over load	Δ R \leq \pm (2%R _O +0.05 Ω)	10 times of rated wattage for 5 sec.
RESISTANCE TO SOLD HEAT	Δ R \leq \pm (1%R _O +0.1 Ω)	TEMPERATURE DIP TIME 350 $^{\circ}$ C \pm 10 $^{\circ}$ C 3.0 \pm 0.5 SEC 260 $^{\circ}$ C \pm 5 $^{\circ}$ C 10 \pm 1 SEC
SOLDERABILITY	95%COVERAGE MIN.	TEMPERATURE: 235 \pm 5 $^{\circ}$ C at 2 \pm 0.5SEC
NON INFLAMMABILITY	Not Flamed	16 times of rated wattage for 5 min

Order Information:

L - KLS6 - KNP - 1/2W - 10R - J - B

RoHS	Wire	Power (W)	Resistance (Ω)	Tolerance (%)	Package
	wound	1/2W	1R0 1 Ω	F \pm 1%	A AMMO/Box
	Resistors	1W	10R 10 Ω	G \pm 2%	B Bulk/Bags
		2W	100R 100 Ω	J \pm 5%	
		3W	1K 1000 Ω		
		5W			
		8W			
		12W			