KNR Wire Wound Resistor (Non-Inductive)

Features

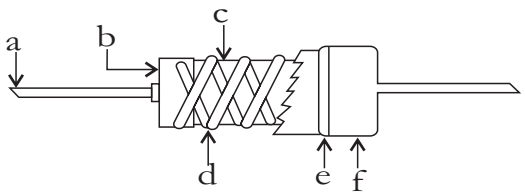
Ⅰ Flameproof and insulating coating designed to assure safe usage by special non-flammable silicon-base.(Eqyuvakebt to UL94V-0)

Ⅱ Good heat-durability, low temperature coefficient , low noise, high overload power

Ⅲ High stability , long life

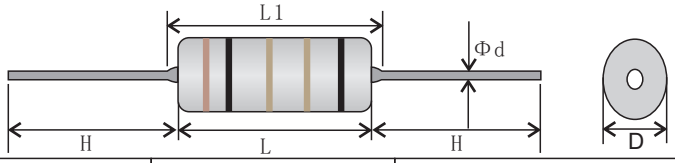
Ⅳ Products meet Eu-RoHS.

Construction



a	Lead wire
b	Cap
c	Ceramic base
d	Wire wound
e	Marking or color code
f	Insulation coat

Dimensions, Applications And Ratings



Type	Power	Resistance Range(Ω)	Dimensions(mm)			
			L±0. 5	D±1.0	H±2.0	d±0.05
KNR12	1/2W	0.1~50Ω	7.0	2.5	20.0	0.50
KNR14	1/4W	0.1~100Ω	9.0	3.2	26.0	0.55
KNR01	1W	0.1~100Ω	11.0	3.2	26.0	0.65
KNR02	2W	0.1~100Ω	15.0	4.5	34.0	0.70
KNR03	3W	0.1~100Ω	18.0	5.0	32.0	0.75
KNR05	5W	0.1~200Ω	25.0	6.0	35.0	0.75
KNR06	6W	0.1~500Ω	25.0	8.0	28.0	0.75
KNR07	7W	0.1~1KΩ	31.0	8.0	28.0	0.8
KNR08	8W	0.1~1KΩ	41.0	8.0	28.0	0.8
KNR10	10W	0.3~1KΩ	52.0	8.0	28.0	0.8

For standard products please choose RWS; for mini products, please choose RSS; for high voltage pulse use, please choose HVS; more details please email to our engineer, kh@khxcom.com.

Ordering Information

Example:

KNR	14	J	R100
(1)	(2)	(3)	(4)
Series Name	Power Rating	Resistance Tolerance	Resistance

(1)Type: KNR SERIES

(2)Power Rating: 14=1/4W、12=1/2W、1=1W、2=2W、3=3W

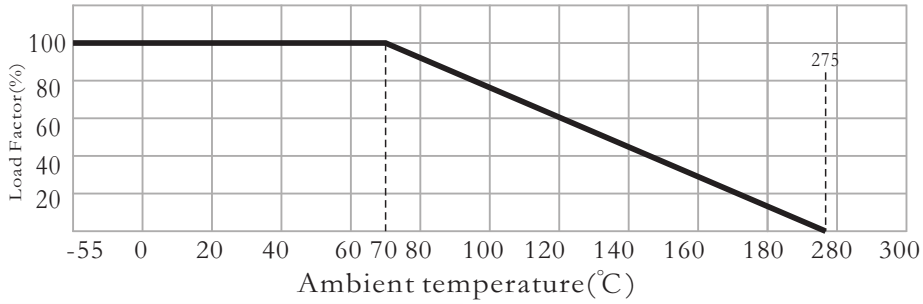
(3)Tolerance: J=±5%

(4)Resistance Value:R100=0.1R、1R00=1Ω、10R0=10Ω、1000=100Ω

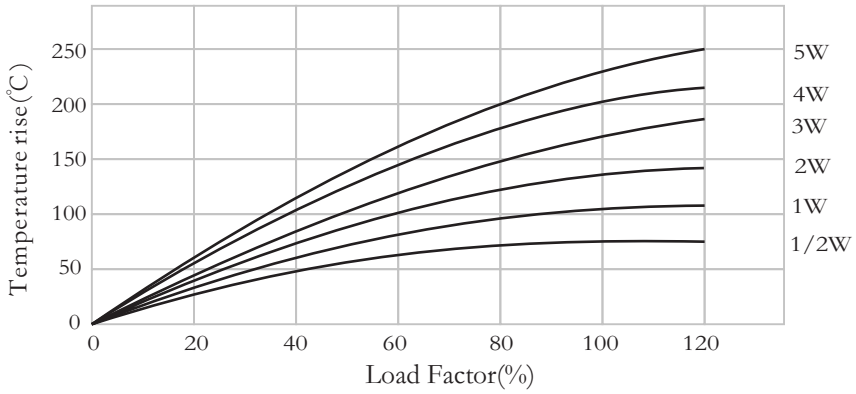
Reference Standards

JISC 5201-1

Derating Curve



Surface Temperature Rise



Performance

Test Items	Performance Requirements	Test Methods(JIS C 5201-1)
Resistance	Within specified tolerance	Measuring points are 10mm from the end cap
T.C.R.	Within specified T.C.R	Room temperature+100℃
Short time overload	±(1%+0.05Ω)	4 times the rated power for 5 seconds
Load life	±(5%+0.1Ω)	Rated voltage at 70℃ for 1,000 hours 1.5hr ON/0.5hr OFF Cycles
Load life in humidity	±(5%+0.1Ω)	Rated voltage at 40℃,95%RH for 1,000 hours
Moisture resistance	±(1%+0.05Ω)	40℃,95%RH for 240 hours
Temperature cycle	±(1%+0.05Ω)	5 cycles for -25℃ (30min);room temp.(30min) ~+85℃ (30min)room temp.(30min)
Solderability	95%(min)coverage	Temp. of solder 245℃ ± 5℃ duration of immersion3s ± 0.5s
Resistance to soldering heat	±(1%+0.05Ω)	260℃ ± 5℃ for 10 seconds 350℃ ± 10℃ for 3.5 seconds
Insulation resistance	> 1,000MΩ	500V insulation test 1min.
Flameproof	No evidence of flaming or arcing	AC voltage of 2,4,6,8,16,32 times the power rating for 1min.(V ≤4times max, working voltage)