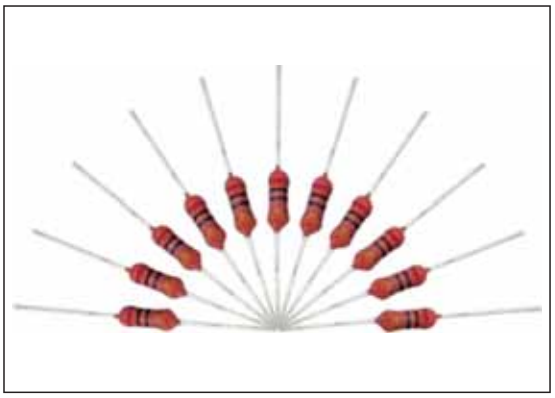
KHX® NIR Non Inductive Resistor



Feature

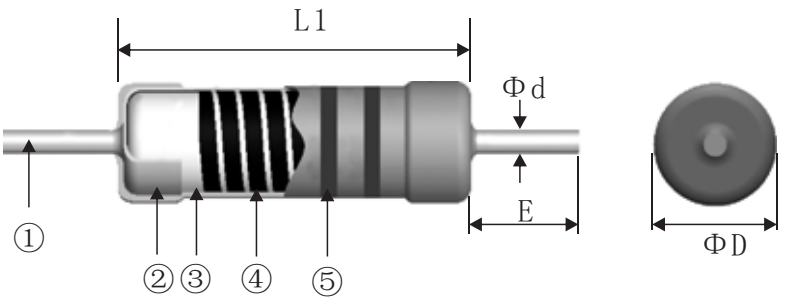
Ⅰ Flameproof and insulating coating designed to assure safe usage by special non-flammable silicon-base.(Eqyuvakebt to UL94V-0)

Ⅱ Small size are good for high density application

Ⅲ Low inductance value(50nH—1uH)

Ⅳ Products meet Eu-RoHS.

Construction



①	Lead wire
②	Ceramic base
③	Cap
④	Condutive film
⑤	Marking color code

Dimensions

Reted power(W)	Dimensions(mm)				Weight(g) (1000pcs)
	L	ΦD	Φd	E	
1/4W,1/2WS	6±0.3	2.4±0.1	0.6±0.05	28±2	210
1/2W,1WS	9±0.5	3.3±0.5		28±3	285
1W,2WS	12±1	4.5±0.5	0.8±0.05	38±3	728
2W,3WS	16±1	5.5±1.0			1380
3W,5WS	18±1	6.0±1.0			1780
5W,7WS	25±1	8.5±0.5			3768
7W	25±1	8.5±0.5			3768

Ordering Information

Example

NIR	012	J	100	S
(1)	(2)	(3)	(4)	(5)
Type	Reatd power	Tolerance	Reisitance	Small size

(1)Type:NIR Resistor

(2)Reatd power:014=1/4W,012=1/2W,01=1W,02=2W,03=3W,05=5W,07=7W

(3)Tolerance:G=±2%,J=±5%

(4)Reisitance:R100=0.1Ω,1R00=1Ω,10R0=10Ω,10K00=1KΩ,1M00=1MΩ

(5)Small size

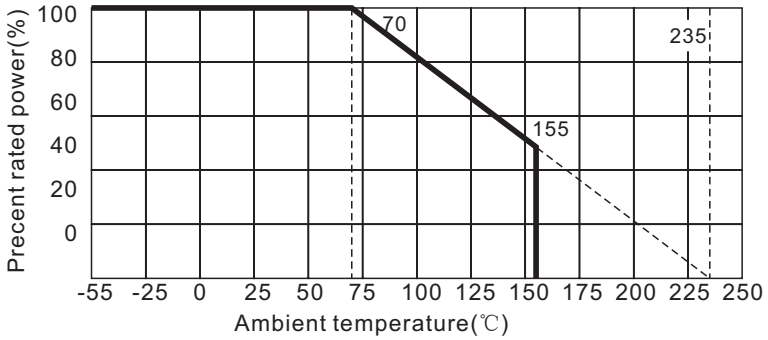
Reference Standards

JIS C 5201-1

Power 、Resistance And Etc.

Reted Power(W)	Resistance Range(Ω)	Max working Voltage(V)	Dielectric Withstanding Voltage(V)	T.C.R (PPM/℃)	Taping/Ammo pack (pcs)				
1/4W,1/2WS	2Ω—12M	750V	500V	⩽300Ω: ±350PPM/℃ >300Ω: ±200PPM/℃	5000	2500	/	2000	/
1/2W,1WS					/	2000	/	1000	1000
1W,2WS					/	1000	1000	1000	1000
2W,3WS	2Ω—14M	1000V			/	500	500	1000	1000
3W,5WS					/	/	/	/	/
5W,7WS	2Ω—1M	1500V			/	/	/	/	/
7W					/	/	/	/	/

Derating Curve



Peformance

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)