



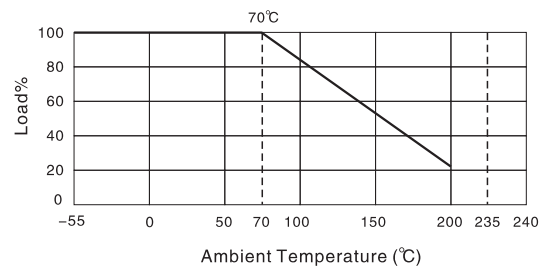
## ■ 特性 Feature

- 可用於自動表面貼裝 (SMD) 裝配系統, 適用於波峰焊、迴流焊進行自動焊接
- Suitable for automatic SMT assembly system (SMD), suitable for wave soldering, reflow automatic welding
- 使用不燃性塗料, 符合UL 94 V-0阻燃要求  
Nonflammable coating, conforming to UL 94 V-0 flame retardant requirements
- 精細的工藝設計, 抗雷擊浪湧性能好  
The high reliability, good performance of anti lightning surge
- 通過UL、VDE、CQC認證  
UL, VDE, CQC certification

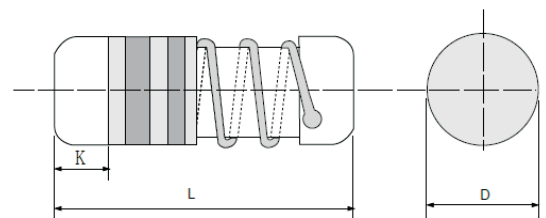
## ■ 應用範圍 Applications

- 適用於高浪湧電路, 如電力電容器的浪湧電流保護, 電機啟動保護, 汽車、摩托車發動機點火等, 有效吸收電路有害浪湧能量  
For high surge circuit, such as the surge current protection of power capacitor, motor starting protection, automobile, motorcycle engine ignition circuit, effectively absorb harmful surge energy
- 各類電源、節能燈、LED電源、LED燈的保險電阻  
Fuse resistance of Power supply, energy saving lamp, LED power supply, LED lamp
- 通訊器材、醫療設備  
The communications equipment, medical equipment
- 汽車電子  
The automotive electronics
- 工業產品  
Industrial products

## ■ 降功率曲線 Derating Curve



## ■ 結構 & 尺寸 Dimension & Construction



Type	L ± 0.5	D ± 0.5	K min
0309	8.5	3.0	0.8
0411	10.5	4.0	1.6

## ■ 性能 Specification

Type	Power	Operating Temperature Range	Max Continuous Working Voltage	Max Overload Voltage	Resistance Range	Emboss Plastic Tape(pcs)
0309	1/2W	-55~+125°C	250V	500V	0.1 Ω ~ 100 Ω	2500
0309	1WS、2WSS	-55~+125°C	250V	500V	0.47 Ω ~ 100 Ω	2500
0411	1W、2WS	-55~+125°C	250V	500V	0.1 Ω ~ 300 Ω	2000

## ■ 性能和測試要求 Specification And Test Methods

測試項目 Test Item	基本要求 Requirement	測試方法 Test Method
Temperature Coefficient of Resistance (T.C.R.)	≤ 1 Ω : ± 500PPM/°C > 1 Ω : ± 100PPM/°C	Referenced to 25°C, Δ R taken at +100°C
Short Time Overload	± (1% + 0.05 Ω)	Rated Voltage × 2.5 or Max. Overload voltage for 5 seconds.
Load Life	± (5% + 0.05 Ω)	Rated load with 1.5 hours ON, 0.5 hours OFF, at (70 ± 2)°C
Solderability	95% min. coverage	260 ± 5°C for 3 seconds
Surge Test	± (10% + 0.05 Ω)	Surge voltage: 0309: 1000~3000V 0411: 1000~5000V According to IEC 10000-4-5 Surge voltage According to the resistance value is different in different, We can according to customer demand for design of lightning surge resistance