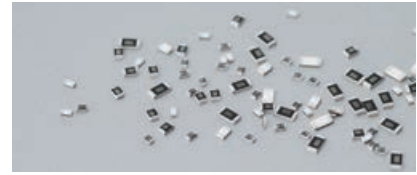
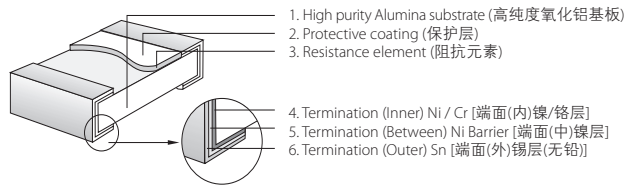
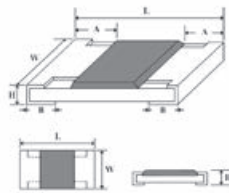


Feature (特性)

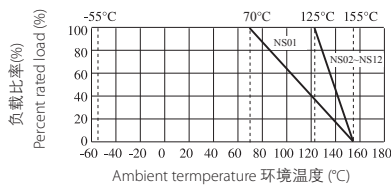
- Application automobile industry, comply with the relevant provisions of AEC-Q200, 100% power rating under +125°C
用于汽车，符合 AEC-Q200 相关条款，+125°C 温度下 100% 功率使用
- Excellent Anti-sulfurized performance 抗硫化性能强
- Superior Anti-Surge Voltage performance 优越的抗浪涌电压特性
- Suitable for reflow & wave soldering 适合波峰焊与回流焊
- Application Car, Power Supply 适用于汽车、电源等



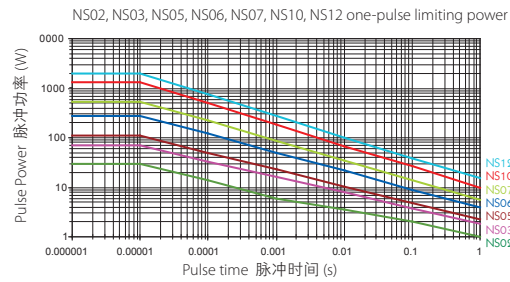
Figures (型状)



Derating Curve (降功率曲线)



Curve of Pulse Duration (脉冲曲线)



Specification (性能)

Type 类型	Size 尺寸	Max working voltage 最大工作电压	Max Overload Voltage 最大过负荷电压	Dielectric Withstanding Voltage 绝缘耐压	Resistance Value of Jumper 零欧姆电阻阻值	Rated Current of Jumper 零欧姆电阻额定电流	Max. Overload Current of Jumper 零欧姆电阻最大过负荷电流	Operating Temperature 工作温度范围
NS01	0201 (0603)	25V	50V	/	< 50mΩ	0.5A	1A	-55~+155°C
NS02	0402 (1005)	50V	100V	100V	< 50mΩ	1A	2A	
NS03	0603 (1608)	75V	150V	300V	< 50mΩ	1A	2A	
NS05	0805 (2012)	150V	300V	500V	< 50mΩ	2A	5A	
NS06	1206 (3216)	200V	400V	500V	< 50mΩ	2A	10A	
NS07	1210 (3225)	200V	500V	500V	< 50mΩ	2A	10A	
NS10	2010 (5025)	200V	500V	500V	< 50mΩ	2A	10A	
NS12	2512 (6432)	200V	500V	500V	< 50mΩ	2A	10A	

Type 类型	Power 功率	L (mm)	W (mm)	H (mm)	A (mm)	B (mm)	Resistance Range 阻值范围 1%(E96), 5%(E24)
NS01	1/20W	0.60±0.03	0.30±0.03	0.23±0.03	0.12±0.05	0.15±0.05	1Ω~10M Ω
NS02	1/16W	1.00±0.10	0.50±0.05	0.35±0.05	0.20±0.10	0.25±0.10	
NS03	1/10W	1.60±0.10	0.80±0.10	0.45±0.10	0.30±0.20	0.30±0.20	
NS05	1/8W	2.00±0.15	1.25 ^{+0.15} _{-0.10}	0.55±0.10	0.40±0.20	0.40±0.20	
NS06	1/4W	3.10±0.15	1.55 ^{+0.15} _{-0.10}	0.55±0.10	0.45±0.20	0.45±0.20	
NS07	1/3W	3.10±0.10	2.60±0.20	0.55±0.10	0.50±0.25	0.50±0.20	
NS10	3/4W	5.00±0.10	2.50±0.20	0.55±0.10	0.60±0.25	0.50±0.20	
NS12	1W	6.35±0.10	3.20±0.20	0.55±0.10	0.60±0.25	0.50±0.20	

* Special offered 特别提供 : NS12 B:1.80±0.25mm

Performance Specification (性能)

Test Item 试验项目	Test Methods 试验方法	Evaluation Criteria 判定标准
Temperature coefficient 温度系数	Measure between -55°C ~+125°C 测定范围: -55°C ~+125°C	1Ω≤R≤10 Ω: ±400 ppm/°C 10Ω<R≤100 Ω: ±200 ppm/°C 100Ω<R≤10MΩ: ±100 ppm/°C NS01:10Ω<R≤10M: ±200 ppm/°C
Short-time overload 短时间过负荷	2.5x Rated voltage or Max. Overload Voltage whichever is lower for 5 seconds, then check the resistance. 2.5 倍额定电压或最大过负荷电压 (取其低者), 持续 5 秒钟, 然后测阻值.	±1%±(1.0%+0.1Ω)Max (最大) ±5%±(2.0%+0.1Ω)Max (最大)
Terminal Bending 端子弯曲	Bending Distance 3mm, Duration: 60s±5s, then check the resistance. 弯曲距离: 3mm, 保持时间: 60s±5s, 然后测试阻值.	±(1.0%+0.05Ω)Max (最大)
Solderability 可焊性	245±3°C; 2~3s 245±3°C; 2~3 秒	95% coverage Min 覆盖率 ≥95%
Soldering heat 耐焊接热	260±5°C; 10±1s 260±5°C; 10±1 秒	±(1.0%+0.05Ω) Max (最大)
Moisture Resistance 耐湿性	25°C~65°C, 90~100%RH, 2.5Hr; 65°C 90~100%RH, 3Hr; 65°C~25°C 80~100%RH, 2.5Hr, 10 cycles, Measurement at 24 hours after test conclusion 25°C~65°C, 90~100%RH, 2.5 小时; 65°C 90~100%RH, 3 小时; 65°C~25°C, 80~100%RH, 2.5 小时, 10 个循环, 试验结束 24 小时后进行测试. MIL-STD-202 Method 106	±1%: ±(1.0%+0.1Ω)Max (最大) ±5%: ±(3.0%+0.1Ω) Max (最大)
Biased Humidity 偏置湿度	10% rated power, 85°C/85%RH, 1000Hr, Measurement at 24 hours after test conclusion 10% 额定功率, 85°C/85%RH, 持续通电 1000 小时, 试验结束 24 小时后进行测试. MIL-STD-202 Method 103	±1%: ±(1.0%+0.1Ω)Max (最大) ±5%: ±(3.0%+0.1Ω) Max (最大)
Dielectric withstanding voltage 绝缘耐压	Resistor shall be clamped in the trough of 90° metallic V-block and shall be tested at AC potential respectively specified in the given list of each product type for 60~70s. 电阻固定在 90° 的 V 型槽中, 根据不同产品规定交流电压, 持续 60~70 秒.	No evidence of flashover, mechanical damage, arcing or insulation breakdown 无击穿, 电弧及可见机械性损伤
Temperature cycling 温度循环	-55±3°C 30min ~normal temperature 10min-15min~155±2°C 30min~normal temperature 10min-15min, 1000 cycles, Measurement at 24 hours after test conclusion. -55±3°C(30 分钟)~ 室温(10-15 分钟)~155±2°C(30 分钟)~ 室温(10-15 分钟) 1000 个循环, 试验结束 24 小时后进行测试 JESD22 Method JA-104	±(1.0%+0.1Ω) Max (最大)
Load life 负载寿命	NS01: 125°C, 35% power, NS02~NS12: 125°C, 100% power, at RCWV or Max.Working Voltage whichever less, 1,000 hours(1.5 hours "ON", 0.5hours"OFF"), Measurement at 24±2 hours after test conclusion. NS01: 125°C, 35% 功率, NS02~NS12: 125°C, 100% 功率, 额定工作电压或最大工作电压 (取其低者), 持续时间: 1,000 小时 (1.5 小时 "通", 0.5 小时 "断"), 试验结束 24 小时后进行测试 MIL-STD-202 Method 108	±1%: ±(1.0%+0.1Ω) Max (最大) ±5%: ±(3.0%+0.1Ω) Max (最大)
Sulfuration test 硫化测试	Soaked in industrial oil with sulfur substance 3.5% contained 105°C ±3°C 500h 工业用油含硫成份 3.5%, 105°C±3, 500H	ΔR≤±(5%+0.1Ω)

Ordering Procedure (Example: NS06 1/4W 5% 1.2 Ω T/R-5000)

订购方式 (例如: NS06 1/4W 5% 1.2 Ω T/R-5000)

