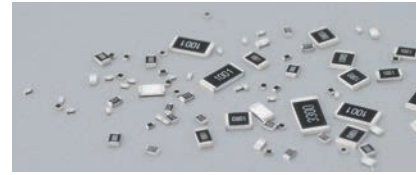
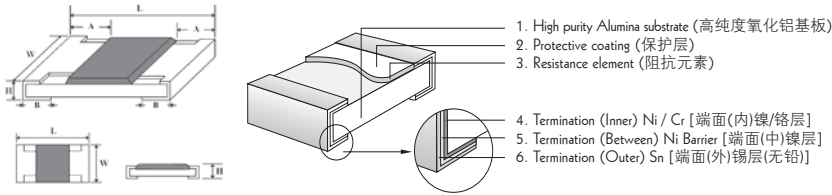


Feature (特性)

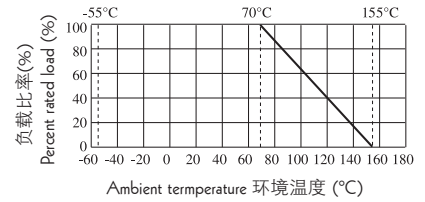
- The relevant provisions of the AEC-Q200. 符合AEC-Q200相关条款
- Suitable for reflow & wave soldering. 适合波峰焊与回流焊
- Application car. 适用于汽车



Figures (型状)



Derating Curve 降功率曲线



Specification (性能)

Type 类型	Max working voltage 最大工作电压	Max Overload Voltage 最大过负荷电压	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. Current Of Jumper 零欧姆电阻 最大电流	Operating Temperature 工作温度范围
HQ02	50V	100V	/	/	/	
HQ03	50V	100V	< 20mΩ	1A	2A	
HQ05	150V	300V	< 20mΩ	2A	5A	
HQ06	200V	400V	< 20mΩ	2A	10A	-55~+155°C
HQ07	200V	500V	< 20mΩ	2A	10A	
HQ10	200V	500V	< 20mΩ	2A	10A	
HQ12	200V	500V	/	/	/	

Type 类型	Power 功率 (70°C)	L (mm)	W (mm)	H (mm)	A (mm)	B (mm)	Resistance Range 阻值范围 1%(E96), 5%(E24)
HQ02	1/16W	1.00±0.10	0.50±0.05	0.35±0.05	0.20±0.10	0.25±0.10	
HQ03	1/16W (1/10W-S)	1.60±0.10	0.80 ^{+0.15} _{-0.10}	0.45±0.10	0.30±0.20	0.30±0.20	
HQ05	1/10W (1/8W-S)	2.00±0.15	1.25 ^{+0.15} _{-0.10}	0.55±0.10	0.40±0.20	0.40±0.20	
HQ06	1/8W (1/4W-S)	3.10±0.15	1.55 ^{+0.15} _{-0.10}	0.55±0.10	0.45±0.20	0.45±0.20	1Ω~10M
HQ07	1/4W (1/3W-S)	3.10±0.10	2.60 ^{+0.15} _{-0.10}	0.55±0.10	0.50±0.25	0.50±0.20	
HQ10	1/2W (3/4W-S)	5.00±0.10	2.50 ^{+0.15} _{-0.10}	0.55±0.10	0.60±0.25	0.50±0.20	
HQ12	1W	6.35±0.10	3.20 ^{+0.15} _{-0.10}	0.55±0.10	0.60±0.25	0.50±0.20	

Performance Specification (性能)

试验项目 Test Item	试验方法 Test Methods	判定标准 Determine Specification
温度系数 Temperature coefficient	测定范围: -55°C ~ +125°C Measure between: -55°C ~ +125°C	1Ω ≤ R ≤ 10 Ω: ≤ ±400ppm/°C 11Ω < R ≤ 100 Ω: ≤ ±200ppm/°C 100Ω < R ≤ 10MΩ: ≤ ±100ppm/°C
短时间过负荷 Short-time overload	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。 2.5x Rated voltage or Max. Overload Voltage whichever is lower for 5 seconds, then check the resistance.	±1%: ±(1.0%+0.1Ω)Max (最大) ±5%: ±(2.0%+0.1Ω)Max (最大)
端子弯曲 Terminal Bending	弯曲距离 (Bending Distance): 5mm, 保持时间: 60s ± 5s, 然后测试阻值。 Duration: 60s ± 5s, then check the resistance.	±(1.0%+0.05Ω)Max (最大)
可焊性 Solderability	245 ± 3°C, 2~3 秒 245 ± 3°C, 2~3s	覆盖率 ≥ 95% 95% coverage Min
耐焊接热 Soldering heat	260 ± 5°C, 10 ± 1 秒 260 ± 5°C, 10 ± 1s	±(1.0%+0.05Ω) Max (最大)
耐湿性 Moisture Resistance	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。 25°C~65°C, 90~100%RH, 2.5H, 65°C 90~100%RH, 3H, 65°C~25°C 80~100%RH, 2.5H, 10 cycles, Measurement at 24 hours after test conclusion MIL-STD-202 Method 106	±1%: ±(0.5%+0.1Ω)Max (最大) ±5%: ±(3.0%+0.1Ω) Max (最大)
偏置湿度 Biased Humidity	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。 10% rated power, 85°C/85%RH, 1000H, Measurement at 24 hours after test conclusion MIL-STD-202 Method 103	±1%: ±(1.0%+0.1Ω)Max (最大) ±5%: ±(3.0%+0.1Ω) Max (最大)
绝缘耐压 Dielectric withstanding voltage	电阻固定在 90°C 的 V 型槽中, 根据不同产品规定交流电压, 持续 60~70 秒。 Resistor shall be clamped in the trough of 90°C metallic V-block and shall be tested at AC potential respectively specified in the given list of each product type for 60~70s.	无击穿, 飞弧及可见机械性损伤 No evidence of flashover, mechanical damage, arcing or insulation breakdown
温度循环 Temperature cycling	-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。 -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. JESD22 Method JA-104	±1%: ±(0.5%+0.1Ω) Max (最大) ±5%: ±(1.0%+0.1Ω) Max (最大)
负载寿命 Load life	125°C, 额定功率, 试验结束 24 小时后进行测试。 125°C, at rated power, Measurement at 24 ± 2 hours after test conclusion. MIL-STD-202 Method 108	±1%: ±(1.0%+0.1Ω) Max (最大) ±5%: ±(3.0%+0.1Ω) Max (最大)

Ordering Procedure (Example: HQ06 1/4W-S 5% 1.2 Ω T/R-5000)

订购方式 (例如: HQ06 1/4W-S 5% 1.2 Ω T/R-5000)

