

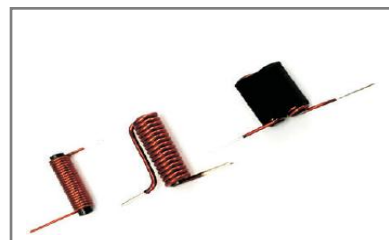
■车规磁棒电感器

Automotive Grade Magnetic Rod Coils

◆特征

Feature

- * 汽车等级、具有高可靠性
Automotive grade、high reliability
- * 优良的焊接性和耐焊性，适合于波峰焊。
Excellent solderability and heat resistance for reflow soldering.
- * 工业生产标准尺寸及多种脚型产品。
Standard size, various lead configuration.



◆应用

Application

- * 一般用途品
通过了 AEC-Q200
General purpose goods
AEC-Q200 passed

◆订货代码

How To Order

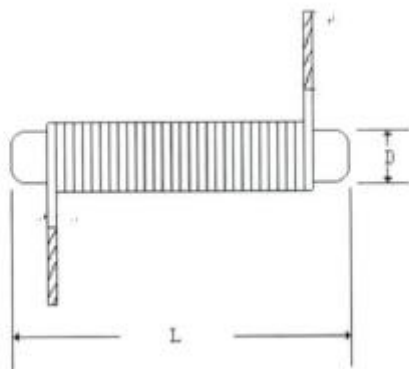
- * 举例
For Example

ADL	03	15
A	B	C

项目 Item	代码 code	描述 Description
A	ADL	车规磁棒电感 Automotive Grade Magnetic Rod Coils
B	03	磁芯外径 Core diameter
C	15	磁芯长度 Core length

◆外型尺寸

Size code,



类型 Type	尺寸 Dimensions(mm)	
	L	ΦD
ADL2510	2.0	10
ADL0312	3.0	12
ADL0315	3.0	15
ADL0415	4.0	15
ADL0520	5.0	20
ADL0615	6.0	15
ADL0620	6.0	20
ADL0625	6.0	25

#不同规格的产品可以根据客户要求生产

The products can be customized according to customer requirement.

◆主要电性能参数
ELECTRICAL CHARACTERISTICS

型号 Part Number	电感量 L (μH)
ADL2510	0.5-15
ADL0312	0.5-15
ADL0315	0.5-15
ADL0415	0.5-15
ADL0520	0.5-15
ADL0615	0.5-15
ADL0620	0.5-15
ADL0625	0.5-15

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◆可靠性测试方法
Reliability Test Method

组别 Group	试验 项目 Test items	试验方法 test method	判定标准 Criteria
1	1.1 外观 appearance	在适当的光源和放大设备上进行检查 Check on appropriate light source and magnification equipment	符合产品标准要求 Meet the requirements of product standards
	1.2 尺寸 size	用精度不少于 0.01mm 的量具测量。 Measure with a measuring tool with an accuracy of no less than 0.01mm.	
	1.3 电性能 Electrical performance	由相应的测试仪进行测试 Test with the appropriate tester	
	2.1 可焊性 Weldability	预处理: 8h±15min 蒸汽老化 焊槽温度: 235℃±5 °C 浸渍时间: 5s Pretreatment: 8h ± 15min steam aging Welding groove temperature: 235 °C ± 5 °C Immersion time: 5s	上锡率≥95% Tinning rate ≥ 95%
	2.2 恒定湿热 Steady damp-heat	验温度/湿度: 85℃@85%RH 试验时间: 1000h 恢复时间: 24h±2h Test temperature/humidity: 85 °C @ 85% RH Test time: 1000h Recovery time: 24h ± 2h	外观无明显损伤, -10%≤ΔL/L≤10% There is no obvious damage to the appearance, -10%≤ΔL/L≤10%
	2.3 引出端强度 Terminal tensile strength	引脚施加拉力: 14.5N 保持时间: 10s Pin applied tension: 14.5N Holding time: 10s	符合产品标准要求 Meet the requirements of product standards
	2.4 可燃性 flammability	样品置于纸包松木板上方 200mm 处, 用 12mm 针焰, 每一试样引燃 3 次, 分别引燃 10s、60s、120s Place the sample 200 mm above the paper wrapped pine board and ignite it for 3 times with a 12 mm needle flame for 10s, 60s and 120s respectively	外观无明显损伤, 产品电气性能符合要求 There is no obvious damage to the appearance, and the electrical performance of the product meets the requirements
	2.5 耐焊接热 Resistance to welding heat	焊槽温度: 260℃±5 °C 浸渍时间: (10±1) s Welding groove temperature: 260 °C ± 5 °C Immersion time: (10 ± 1) s	外观无明显损伤, There is no obvious damage to the appearance, 10%≤ΔL/L≤10%
	2.6 温度冲击 Temperature shock	阶段 1: +125℃/30min Phase 1: +125 °C/30min 阶段 2: -40℃/30min Stage 2: - 40℃/30min 转换时间<1min, 循环次数: 1000 次	外观无明显损伤, There is no obvious damage to the appearance, 10%≤ΔL/L≤10%

			Conversion time < 5min, number of cycles: 1000 恢复时间: 24 ± 2 h Recovery time: 24 ± 2 h	
2.7	工作寿命 working life		试验温度: 125°C 施加电流: 额定电流 试验时间: 1000h 恢复时间: $24\text{h} \pm 2\text{h}$ Test temperature: 125°C Applied current: rated current Test time: 1000h Recovery time: $24\text{h} \pm 2\text{h}$	
2.8	耐高温 High temperature resistance		试验温度: $125^{\circ}\text{C} \pm 2^{\circ}\text{C}$ 试验时间: $(1000+24)\text{h}$ 恢复时间: $24\text{h} \pm 2\text{h}$ Test temperature: $125^{\circ}\text{C} \pm 2^{\circ}\text{C}$ Test time: $(1000+24)\text{h}$ Recovery time: $24\text{h} \pm 2\text{h}$	
2.9	机械冲击 Mechanical shock		脉冲波形: 正半弦波 峰值加速度: 100g, 脉冲持续时间: 6ms 三轴六向各 3 次, 共 18 次 Pulse waveform: sine wave Peak acceleration: 100g, pulse duration: 6ms Three times for each of the three axes and six directions, 18 times in total	
2.10	振动 Vibration		频率范围: 10 Hz~2000 Hz 加速度 5g, 一个循环 20min, X、Y、Z 方向各 12 个循环 (共 36 个循环) Frequency range: 10 Hz ~ 2000 Hz Acceleration 5g, one cycle for 20min, 12 cycles in X, Y and Z directions (36 cycles in total)	