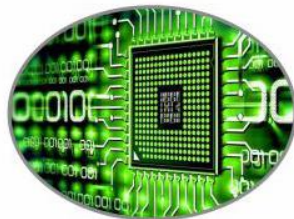
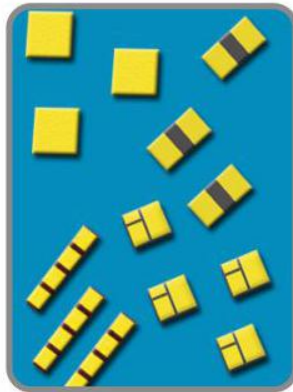
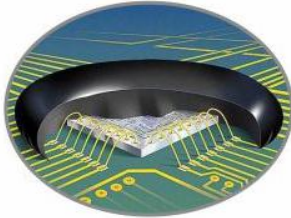
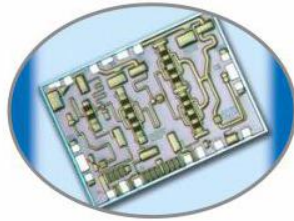




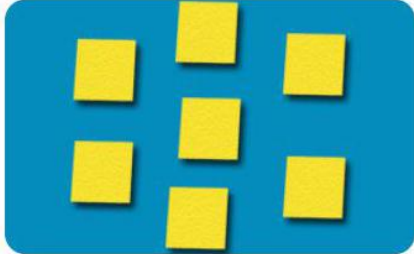
传递温度·感知冷暖

单层芯片电容 Single Layer Capacitor



通用型芯片电容器

General Series Single Layer Capacitor



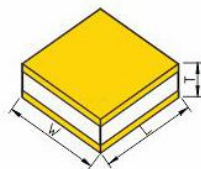
应用领域 Application

- ◇ 主要应用于微波集成电路，起隔直流、源旁路、阻抗匹配等作用。
- ◇ 便于用户匹配电容宽度与线路板导体线宽，或者在线路面积很有限时以电容尺寸将就线路。
- ◇ Microwave integrated circuit, DC isolation, bypass, impedance matching etc.
- ◇ The design allows the user to match line with or design a custom capacitor for limited circuit dimensions.

特点 Key Features

- ◇ 体积小，电容量大 微波性能优异
- ◇ 可焊性良好
- ◇ 对于表面留边型的芯片电容，有助于防止溢胶造成的短路，这种设计也减少了因镊子而造成的损害，也便于自动机械的操作。
- ◇ 可根据客户要求定制不同尺寸及参数
- ◇ Small size, large capacitance, excellent microwave performance
- ◇ Good solderability
- ◇ The borders help prevent short circuits (arcing at the chip edges) after die attachment, especially with conductive epoxy. The design also reduces handling damage from tweezers, and facilitates automated pick and place assembly processes.
- ◇ Customized sizes and parameters available

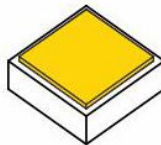
外形尺寸 Dimension



N Type
双面不留边
No Border



S Type
表面留边
Single Border

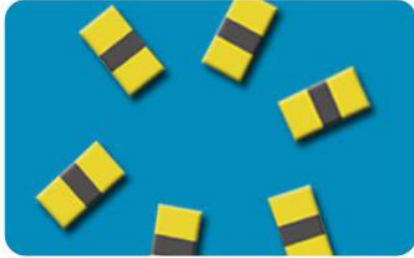


B Type
双面留边
Both Border

—— 表面电极 Surface Electrode
—— 介质层 Dielectric ceramic
—— 下电极层 Bottom Electrode

双电极型芯片电容器

Double Electrode Series Single Layer Capacitor



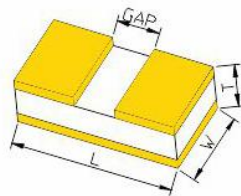
应用领域 Application

- ✧ 此系列电容产品是用于射频/微波和毫米波线路的理想元件。
- ✧ This series make it ideal for RF/ microwave and millimeter wave application.

特点 Key Features

- ✧ 结构独特
- ✧ 性能一致性好
- ✧ 可根据客户要求定制不同尺寸及参数
- ✧ Peculiar structure
- ✧ Consistent performance
- ✧ Customized sizes and parameters available

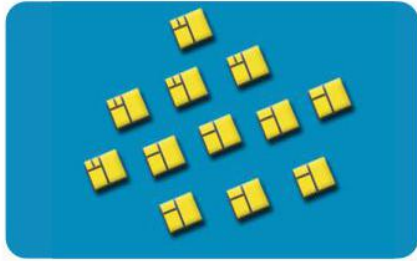
外形尺寸 Dimension



- 表面电极 Surface Electrode
- 介质层 Dielectric ceramic
- 下电极层 Button Electrode

二进制多电极型芯片电容器

Binary Multi Electrode Series Single Layer Capacitor



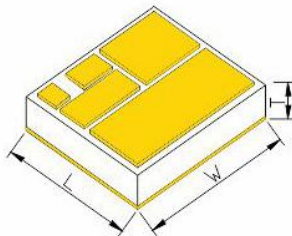
应用领域 Application

- ✧ 主要应用于匹配网络、提供方便的电路可调性。隔直流应用和耦合电容器。
- ✧ Matching networks, tank circuits, dielectric resonator tuning/coupling.

特点 Key Features

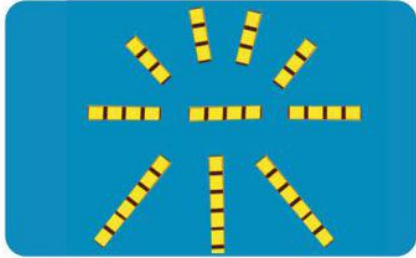
- ✧ 几何尺寸小, 适合于微波电路
- ✧ 有利于电路匹配和调整
- ✧ Small size, suitable for microwave geometries
- ✧ Ideal for prototype circuit

外形尺寸 Dimension



阵列型芯片电容器

Single Layer Capacitor Array



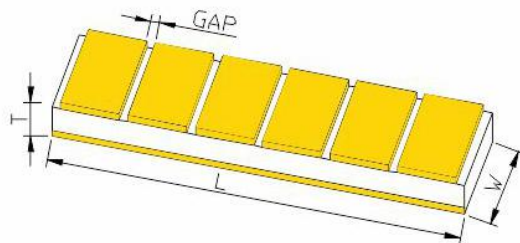
应用领域 Application

- ✧ 主要用于单片微波集成电路，解耦电路、射频旁路。
- ✧ Microwave integrated circuit, decoupling, RF bypassing

特点 Key Features

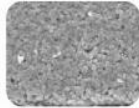
- ✧ 安装简单
- ✧ 可在IC封装中集成以减少引线长度并提高性能
- ✧ 可以降低电容器的成本以及安装成本
- ✧ Simplified assembly
- ✧ Can be integrated into IC package to reduce bond wire lengths and improve performance
- ✧ Single insertion reduces complexity and costs

外形尺寸 Dimension

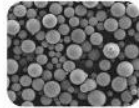


看得见的品质 Quality Assurance

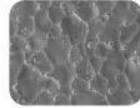
★ 材料结构微观检控 Microcosmic QC of Material



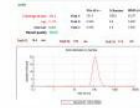
SLC陶瓷烧结晶型结构品质控制
SLC Ceramic Sintering Structure QC



材料微观检控图片
Microcosmic QC of Material Structure



SLC表面电极微观结构品质控制
SLC The Surface of Electrode Grain QC



SLC 粉体粒度分布图
SLC powder particle size analysis

★ 品质控制 Quality Control



扫描电子显微镜
Scanning Electron Microscope



焊锡结合强度测试
Soldering Intensity Test



网络分析仪
Network Analyzer



激光粒度分析仪
Laser Particle Size Analyzer

★ 电气性能稳定性 Stability Performance



高温负荷实验
High Temperature Loading Test



材料老化测试
Material Aging Test



冷热冲击实验
Temperature Shock Test



高温高压高湿实验
High Temperature/ Humidity/ Pressure Test

可靠性评估方法 Reliability Evaluation Method

可焊性 (GJB2442-95中4.7.8及GJB360A方法208)
Soderability (GJB2442-95 4.7.13 and GJB360 method 208)

耐焊接热 (GJB2442-95中4.7.13及GJB360A方法210)
Resistance to solder heat (GJB2442-95 4.7.13 and GJB360A method 210)

键合强度 (GJB2442-95中4.7.9及GJB548方法2011条件D)
Bond Strength (GJB2442-95 4.7.9 and GJB548 method 2011 condition D)

抗剪强度 (GJB2442-95中4.7.10及GJB548方法2019)
Die shear strength (GJB2442-95 4.7.10 and GJB548 method 2019)

温度特性 (GJB2442-95中4.7.11)
Temperature characteristic (GJB2442-95 4.7.11)

温度冲击和浸渍 (MIL-STD-202F方法107条件D及MIL-STD-202F方法104条件A)
Thermal shock and immerse (MIL-STD-202F method 107 condition D and MIL-STD-202F method 104 condition A)

寿命 (GJB2442-95中4.7.15及GJB360A方法108) +125℃, 2倍额定电压
Life test (GJB2442-95 4.7.15 and GJB360A method 108) +125℃, 2* rated voltage

低电压耐湿 (GJB2442-95中4.7.17)
Low voltage humidity (GJB2442-95 4.7.17)

通用型芯片电容器典型参考产品一览表 General Parameter and Part No.

CAP. (pF)	0.3*0.3 ± 0.05	0.4*0.4 ± 0.05	0.5*0.5 ± 0.05	0.6*0.6 ± 0.05	0.5*0.8 ± 0.15	1.1*1.1 ± 0.15	1.2*1.4 ± 0.15	1.8*1.8 ± 0.25	2.3*2.3 ± 0.25
0.1(0R1)	✓	✓							
0.2(0R2)	✓	✓	✓	✓					
0.3(0R3)	✓	✓	✓	✓					
0.5(0R5)	✓	✓	✓	✓	✓				
1.0(1R0)	✓	✓	✓	✓	✓	✓	✓		
1.2(1R2)	✓	✓	✓	✓	✓	✓	✓		
2.7(2R7)	✓	✓	✓	✓	✓	✓	✓		
3.0(3R0)	✓	✓	✓	✓	✓	✓	✓		
3.6(3R6)	✓	✓	✓	✓	✓	✓	✓		
5.1(5R1)	✓	✓	✓	✓	✓	✓	✓		
10(100)	✓	✓	✓	✓	✓	✓	✓		
15(150)	✓	✓	✓	✓	✓	✓	✓		
22(220)	✓	✓	✓	✓	✓	✓	✓		
27(270)	✓	✓	✓	✓	✓	✓	✓		
33(330)	✓	✓	✓	✓	✓	✓	✓		
47(470)	✓	✓	✓	✓	✓	✓	✓		
56(560)	✓	✓	✓	✓	✓	✓	✓		
68(680)	✓	✓	✓	✓	✓	✓	✓		
82(820)	✓	✓	✓	✓	✓	✓	✓		
100(101)	✓	✓	✓	✓	✓	✓	✓		
150(151)	✓	✓							
220(221)	✓	✓	✓	✓	✓	✓	✓		
270(271)	✓	✓							
330(331)	✓	✓	✓	✓	✓	✓	✓		
390(391)			✓	✓					
470(471)			✓	✓	✓	✓	✓		
560(561)			✓	✓	✓	✓	✓		
680(681)			✓	✓	✓	✓	✓		
750(751)			✓	✓	✓	✓	✓		
820(821)			✓	✓	✓	✓	✓		
1000(102)						✓	✓		
1200(122)					✓	✓	✓		
1500(152)					✓	✓	✓		
1800(182)						✓	✓		
2200(222)						✓	✓		
2700(272)						✓	✓		
3300(332)						✓	✓	✓	
3900(392)								✓	
4700(472)								✓	
5600(562)								✓	
6200(622)								✓	✓
6800(682)								✓	✓
7500(752)									✓
8200(822)									✓
10000(103)									✓

注Noted: 0.3*0.3 ± 0.05 (Length 0.3mm*宽 Width 0.3mm ± 0.05) Special specifications can be customized Designed
可以根据客户要求定制特殊规格(Customized special parameters are available)
包装形式 Package Method: B: 散装 Bulk F: 贴膜 Film T: 编带 Taping

 **广东爱晟电子科技有限公司**
EXSENSE Electronics Technology Co., Ltd.

地址: 广东省肇庆市鼎湖区桂城街道第一社区顺景路201号
Address: No. 201, Shunjing Road, The First Community, Guicheng Street, Dinghu District, Zhaoqing City, Guangdong Province, China 526070
电话 Tel: 86-0758-2661333/86-152 1844 8949
传真 Fax: 86-0758-2698912
邮箱 Mail: mkb@exsense.com.cn
网站 Web: www.exsense.com.cn