

东莞市科雅电子科技有限公司

规格书

PRODUCT APPROVAL SHEET

客户名称: 立创商城

Customer

品名: 径向引线独石电容器

Product Name Radial Leaded Mlcc

规格: CT40805B104K500F3 104K50V P=5

Product Spec

版本号: V3.1

Version Number

日期: 2024/06/22

Date



客户 Customer			制造 Manufacturer		
确认 Approval			确认 Approval		
检验 Inspector	审核 Checker	批准 Approver	拟制 Designer	审核 Checker	批准 Approver
			周潇潇	文海峰	刘大鹏

东莞市科雅电子科技有限公司

客户名称 Customer		客户编号 Customer number		日期 Date	2024/06/22
规格型号 Product Name	CT4-0805B104K500F3		生产编号 Lot No		

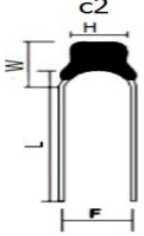
电性参数 Electrical parameters

规格型号 Product Name	容量范围 Capacitance	损耗 DF	绝缘电阻 IR	耐压范围 Breakdown Voltage	判定 Result
CT4-0805B104K500F3	90~110nF	≤3.5%	≥1×10 ⁹ Ω	50V×2.5倍	OK

订货代码 Ordering Code

A	产品类别 Product Type			B	本体外形尺寸规格 (长×宽) Nominal Body Size (Length×Width±0.05)	
	CT4	CT4 II 类径向引线独石电容器 CT4 Class II radial lead monolithic capacitors			0805	2.00×1.25mm
C	温度特性 Temperature Characteristic			D	标称容量 Nominal Capacitance C	
	B	X7R	±15%		-55~+125℃	104
E	容量偏差 Tolerance			F	额定电压 Rated Voltage	
	K	±10%			500	50V
G	包装方式 Packaging Style			H	脚距 (单位: mm) Lead Space (Unit: mm)	
	Blank	散包装 1000PCS/包 Bulk 1000PCS/BAG			F3	5.08mm
I	引线材质 Wire material	规格 Specifications		线径 Wire diameter	导电率 Line conductivity	
		镀锡铜包钢线 Tin plated copper clad steel wire		Φ0.45~0.5mm	16.6~18%	
		镀锡铜线 Tin plated copper wire				

尺寸、工作电压及容量关系表 Size Code and Voltage VS Capacitance

尺寸规格 Size Code	外形 Shape	尺寸 (单位: mm) Dimensions (Unit: mm)					工作电压 Voltage
		F±0.5 (脚距)	L±2 (脚长)	H(宽) MAX	W(高) MAX	T(厚) MAX	
0805		5.08		6.0	6.5	4.0	≤50V

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通用型引线MLCC可靠性及测试方法

Reliability and Test Method for General Leaded MLCC

项目 Item	技术要求 Technical Specification		测试方法和备注 Test methods and remarks.		
容量 Capacitance (C)	I 类 Class I	应符合指的误差级别 With in the specified tolerance.	标称容量 Capacitance	测试频率 Measuring Frequency	测试电压 Measuring Voltage
			<1000pF	1MHZ±10%	1.0V
	II 类 Class II	应符合指的误差级别 With in the specified tolerance.	对于 II 类电容器，测试前应先预处理 For class II capacitor, pre treatment should be taken before the test		
			测试频率 Measuring Frequency	测试电压 Measuring voltage	
<10 μF 1KHZ±10%	B: 1.0V	E/Y(F) <1uF/0.5V ≥1uF/1.0V			
≥10 μF 120Hz±10%					
损耗角正切 Dissipation Factor (DF)	I 类 Class I	C, R≥50pF DF≤0.15% C, R<50pF DF≤1.5 【(150/C, R)+7】×10 ⁻⁴	标称容量 Capacitance	测试频率 Measuring Frequency	测试电压 Measuring Voltage
			≤1000pF	1MHZ±10%	1.0V
	II 类 Class II	B 100V<1 μF DF≤3.5% 50V≥1 μF, DF≤5.5% 25V≥10 μF, DF≤7.5% 16V≥10 μF, DF≤10% 10V≥10 μF, DF≤15%	≤10uF 测试频率:1KHZ±10%; 测试电压: 1.0V ≥10uF 测试频率:120Hz±10%;测试电压: 1.0V Measuring Frequency Measuring voltage		
			E/ Y (F)	(C,R≤0.1 μF≤7.5%) (C,R≥1 μF≤10.0%) (≥10 μF, DF≤15%)	
		(≥1 μF C, R≥0.1 μF) ≤15%(C,R≥1 μF) 0402/C, R≥ 0.1 μF ≤15%	测试频率 Measuring Frequency 测试电压: 1.0V Measuring voltage		
绝缘电阻 Insulation Resistance	I 类 Class I	C≤10nF IR≥10000MΩ	测试电压:额定电压 Measuring voltage: Rated voltage 测试时间: 60±5 秒 Duration: 60±5S		
	II 类 Class II	C≤25nF IR≥4000MΩ C>25nF R. C÷100s ΩF			

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项目 Item	技术要求 Technical Specification	测试方法和备注 Test Method and Remarks								
耐电压 Withstand voltage	不应有介质被击穿或损伤 Should not have the breakdown or damage	<p>端之间 Between terminals 测试电压 Measuring Voltage: 持续时间: 5±1 秒 Duration: 5±1s I 类: 300%额定电压 Class I: 300% Rated voltage II 类: $U_R \leq 500V$ 额定电压 2.5UR Class II: U, 2.5 UR R rated voltage 500 v or less II 类: $U_R > 500V \leq 1000V$ 额定电压 1.5UR Class II: U R > 1.5 UR 500 v rated voltage 1000 v or less II 类: $U_R > 1000V$ 额定电压 1.2UR Class II: U R > 1.2 UR rated voltage 1000 v</p> <p>I 类充/放电电流不应超过 50mA I kind of charge/discharge current should not exceed 50 ma II 类小尺寸芯片充/放电电流不应超过 30mA Class II small size chips charge/discharge current should not exceed 30 ma II 类充/放电电流不应超过 50mA Class II charge/discharge current should not exceed 50 ma</p>								
可焊性 Solderability	上锡率应大于 75% The tin rate should be greater than 75%	<p>端子与外装间 Between terminals and body: 施加电压: 2.5UR 持续时间: 1~5s Voltage: 2.5 times rated voltage Duration: 1~5s 金属制小球法 Metal ball method 将电容器本体插入盛满直径为 1mm 的金属小球的容器中, 但保留距端头处 2mm 的本体不插入。试验电压施加在短路回路端子和金属小球之间。 Insert the capacitor body filled with a diameter of 1 mm metal ball in the container, but keep away from the end of 2 mm ontology is not inserted. Test voltage applied between the short circuit loop terminal and a metal ball.</p>								
耐焊接热 Resistance to Soldering Heat	<table border="1"> <thead> <tr> <th>项目 Item</th> <th>$\Delta C/C \leq$</th> </tr> </thead> <tbody> <tr> <td>Class I</td> <td>$\pm 2.5\%$ or $\pm 0.25pF$</td> </tr> <tr> <td>B</td> <td>$\pm 10\%$</td> </tr> <tr> <td>E/Y(F)</td> <td>$\pm 20\%$</td> </tr> </tbody> </table> <p>外观无可见损伤 No visible damage</p>	项目 Item	$\Delta C/C \leq$	Class I	$\pm 2.5\%$ or $\pm 0.25pF$	B	$\pm 10\%$	E/Y(F)	$\pm 20\%$	<p>将电容器引线浸入含有 25%松香的酒精溶液中, 然后浸入温度为: $230 \pm 5^\circ C$ 的金属焊锡 (Sn) 中 2 ± 0.5 秒。注意: 电容器本体底面距离锡面约 1.5~2mm。 Capacitor lead into the alcohol solution containing 25% rosin, then immersed temperature: $230 + 5^\circ C$ metal solder (Sn) $2 + / - 0.5$ seconds, note: capacitor body bottom tin surface distance is about 1.5 ~ 2 mm.</p> <p>锡温: $260 \pm 5^\circ C$ Solder temperature: $260 \pm 5^\circ C$ 时间: $10 \pm 1s$ Duration: $10 \pm 1s$ 浸入条件: 将电容器插入厚度为 1.6mm, 孔径为 1.0mm 的 PC 板。 Immersion conditions: insert the capacitor thickness of 1.6 mm, pore size of 1.0 mm PC board. 对于 I 类介质, 试验后, 应在标准条件下恢复 4~24 小时才测试。 In class I medium, after the test, should be in the standard recovery under the condition of 4 ~ 24 hours to test. 对于 II 类介质, 在试验前应先进行如下预处理: $150 (-10, +0)$, 1 小时。 接着在标准条件下恢复 48 ± 4 小时。 For class II medium, should undertake the following first pre treatment before test: the $150 (-10 + 0)$, 1 hour, Then under the condition of standard to restore $48 + 4$ hours. 恢复: 对于 II 类介质试验后, 应在标准条件下恢复 48 ± 4 小时后才测试。 Recovery: for class II medium after test, should be under standard conditions to restore $48 + 4$ hours after the test.</p>
项目 Item	$\Delta C/C \leq$									
Class I	$\pm 2.5\%$ or $\pm 0.25pF$									
B	$\pm 10\%$									
E/Y(F)	$\pm 20\%$									

若测试结果有争议时, 仲裁试验用标准大气条件为:

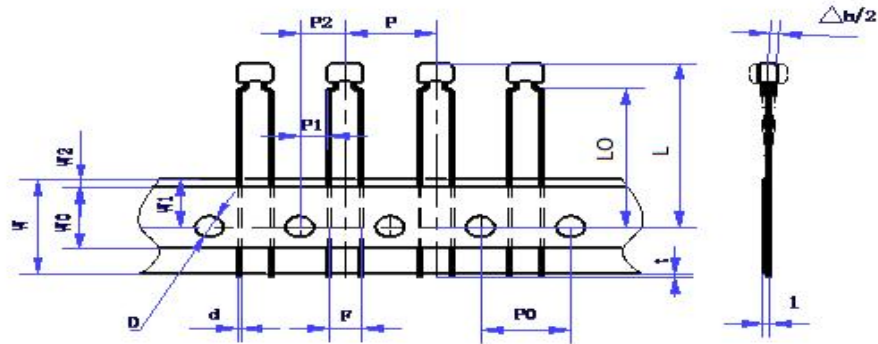
温度: $25 \pm 2^\circ C$, 相对湿度: $\leq 65\%$, 气压: 86~106kPa

If in case of any dispute over the test results, the arbitration in standard atmospheric conditions for test: Temperature: $25 + 2^\circ C$, relative humidity: $\leq 65\%$, atmospheric pressure: 86 ~ 106 kpa

包装形式

东莞市科雅电子科技有限公司

Packaging Style



代号 Code	P	P0	P1	P2	d	Δh	W	W0	W1	W2	L	LO	D	t
尺寸 Dim	12.7	12.7	3.85 5.1	6.35	0.5	0	18.5	8	9	1.5	26	15~20	4.0	0.7
误差 Tol.	±0.2	±0.2	0.7	±1.3	±0.1	±2	±1	±2	±0.5	±1.5	Max.	±0.5	±0.2	Max.

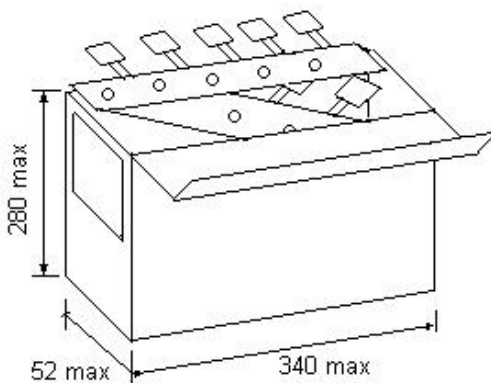
注意Note:

P1=3.85mm for F=5.08mm; P1=5.1mm for F=2.54mm.

散装 包装 : 1000个/包

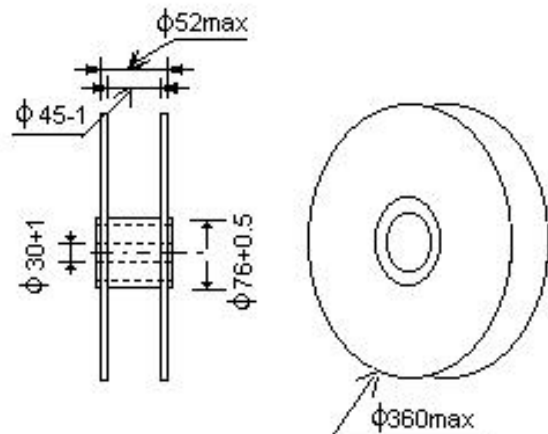
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Ammo Packaging



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