

DEC-SA-WI003 Rev.: B/2 2020/12/14

圆板陶瓷电容器规格承认书 APPROVAL SPECIFICATION FOR DISC CERAMIC CAPACITORS

客户 CUSTOMER		立创商均	成
客户料号 CUSTOMER P/N			
客户规格描述 CUST. SPEC			
规格描述 DESCRIPTION	50V/104/	/Z/F2.54/直脚/L18/酚	醛(黄)/Y5V(III)/6C
产品编码 PART NUMBER		CC1H1O4ZA1FD3F	6C1000
日期 DATE	2021/1/13	文件编号 DOC. NO.	DEC-SA-WI003

德文型新译在	客户承认栏		
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	EQRMULATE BY	APPROVED BY	CHECK BY
勢少雄 样品承认	章麦琼方		

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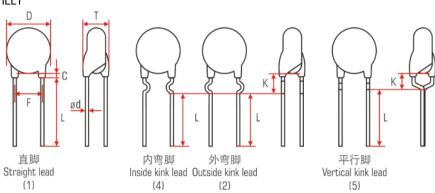
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# Dersonic®

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## 1. 规格表 SPECIFICATION SHEET



	(1)	(4)	(2) (5)
	产品编码 Part number		CC1H104ZA1FD3F6C1000
	规格描述 Description		50V/104/Z/F2.54/直脚/L18/酚醛(黄)/Y5V(III)/6C
	客户料号 Customer P/N		
	介质类别 Dielectric class		Class 3 (Surface insulation type)
	额定电压 Rated voltage		50VDC
	电容量 Capacitance		0.1uF+80%/-20% @ 1kHz 0.1Vrms 25°C
	损耗角正切 Tangent of loss angle		0.05 max @1kHz 0.1Vrms 25°C
	耐电压 Testing voltage		75VDC (Charge/discharge current 1mA max) 1 $\sim$ 5s PASS
	绝缘电阻 Insulation resistance		$250M\Omega$ min @ 50V 60s, RH $<$ 70%
	温度特性 Temperature characteristics		Y5V(III) ΔC/C: +22/-82% @ -25°C~85°C
	D (Diameter)		6mm+0.7/-0.3mm
	T (Thickness)		3.2mm max
尺寸	F (Lead spacing)		2.54mm±0.8mm
DIMENSIONS	L (Lead length)		18mm±4.0mm
	ød (Lead diameter)		0.55mm max
	C (Coating rundown on leads)		1.5mm max
	标志 Marking		104



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### 2. 总则

#### **GENERAL**

1) 本规格书适用于额定电压不超过直流6.3kV和最大标称电容量为0.22uF的电子设备用圆板陶瓷电容器。
This specification applies to the disc ceramic capacitors for electronic equipment with a rated voltage not exceeding DC 6.3kV and 0.22uF of maximum nominal capacitance.

2) 温度补偿型(1类瓷)电容器是专门设计并用在低损耗、电容量稳定性高或要求温度系数有明确规定的谐振电路中的一种电容器,例如,在电路中作温度补偿之用。

Temperature compensation (Class 1) ceramic capacitor specially designed and suited for resonant circuit application where low losses and high stability of capacitance are essential or where a precisely defined temperature coefficient is required, for example for compensating temperature effects in the circuit.

该类陶瓷介质是由标称温度系数(alpha)来确定,如NPO、N750、SL等等。

The ceramic dielectric is defined by its rated temperature coefficient (alpha), such as NPO, N750, SL, etc. .

3) 高介电常数型[2类资]资介电容器是是适用于作旁路、耦合或用在对损耗和电容量稳定性要求不高的电路中的具有高介电常数的一种电容器。

High dielectric (Class 2) ceramic capacitor which has a dielectric with a high permittivity and is suitable for by-pass and coupling applications or for frequency discriminating circuits where low losses and high stability of capacitance are not of major importance.

该类陶瓷介质是以在类别温度范围内电容量非线性变化来表征,如Y5P、Y5U、Y5V等等。

The ceramic dielectric is characterized by the non-linear change of capacitance over the category temperature range, such as Y5P, Y5U and Y5V etc.

4) 可适用于自动化生产线 Cost-saving automatic insertion available

5) 符合RoHS 2.0标准,无卤。 Comply with RoHS 2.0, halogen-free available

#### 3. 适用标准

#### APPLICABLE STANDARD

本产品符合下列标准,且本规格书的相关内容引用以下标准,当双方对此存在争议时,可依以下标准进行仲裁。 This product complies with the following standards, and the relevant content of this specification refers to the following standards, when the two sides in dispute, the following criteria for arbitration.

GB/T 2693-2001 电子设备用固定电容器 第1部分 总规范(IDT IEC 60384-1)

Fixed capacitors for use in electronic equipmen — Part 1: Generic specification (IDT IEC 60384-1)

GB/T 5966-2011 电子设备用固定电容器 第8部分 分规范 1类瓷介固定电容器(IDT IEC 60384-8)
Fixed capacitors for use in electronic equipmen — Part 8: Sectional specification: Fixed capacitors of ceramic

dielectric, Class 1 (IDT IEC 60384-8) GB/T 5968-2011 电子设备用固定电容器 第9部分 分规范 2类瓷介固定电容器(IDT IEC 60384-9)

Fixed capacitors for use in electronic equipmen — Part 9: Sectional specification: Fixed capacitors of ceramic dielectric, Class 2 (IDT IEC 60384-9)

#### 4. 结构

#### **STRUCTURE**

本产品结构如下图所示,外部包封层为环氧树脂(蓝色)或酚醛树脂(土黄色),内部介质为陶瓷,银电极,导线为镀锡铜包钢线,电极与导线采用无铅锡焊接而成,经过激光打标而成。

The structure of this product is shown in the following figure, external coating layer to epoxy resin (blue) or phenolic resin (yellowish), internal dielectric for ceramics, silver electrodes, lead wires for tin-plated copper clad steel wire, electrodes and lead wires using lead-free tin soldering, through laser marking.

包封层(环氧树脂或酚醛树脂) Coating (Epoxy resin or phenolic resin)

> 电极(银或铜) Electrode(Silver or copper)

标志(激光蚀刻) Marking (Laser etching) 介质(陶瓷) Dielectric (Ceramic)

焊锡(无铅锡) Soldering (Lead-free solder)

引线(镀锡铜包钢线或镀锡铜线) Lead (CP wire or tinned copper wire)



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### 5. 产品编码

#### PART NUMBER

本公司产品编码方式,举例说明如下:

The product part number representation of the company, examples are as follows:

<u>CC</u>	<u>1H</u>	<u> 104</u>	<u>Z</u>	<u>A1</u>	<u>F</u>	<u>D</u>	<u>3F</u>	<u>6C1</u>	<u>000</u>
系列	额定直流电	标称容量	容量偏差	引线	编带包装或	包封材质	温度特性	生产识别码	标志
Series	压	Nominal	Capacitance	成型方式	脚长	Coating	Temperature	Production	Marking
	Rated dc	capacitance	tolerance	Leads format	Taping packing	material	characteristic	identification	
	voltage				or Leads		S	code	
					length				

1C: 16V 1H: 50V 2E: 250V 3A: 1kV 3G: 4kV 额定直流电压 3H: 5kV Rated dc voltage 1E: 25V 1J: 63V 2H: 500V 3D: 2kV 1V: 35V 2A: 100V 2J: 630V 3F: 3kV(3.15kV) 3J: 6.3kV

■ 标称容量 用3位数表示,单位pF。如下所示: Nominal capacitance In 3 digits, unit is pF, as shown in below:

104: 0.1 uF = 1000 nF = 1000000 pF)

■ 容量偏差 C: ±0.25pF J: ±5% S: +50%/-20% Capacitance tolerance D: ±0.50pF K: ±10% Z: +80%/-20% M: ±20% P: +100%/-0%

■ 引线成型方式 Leads format

代码 Code	脚距 Leads spacing
Α	2.54mm
С	5.08mm
D	7.50mm
E	10.0mm

代码 Code	1	2	4	5	7
脚型 样式 Leads style drawing	直脚 Straight Leads	外弯脚 Outside kink Leads	内弯脚 Inside kink Leads	平行脚 Vertical kink Leads	小单外弯脚 Mini outside kink Leads

■ 编带包装或脚长 Taping packing or Leads length Bulk (Leads length)

2: 3.0mm 5: 3.8mm 8: 5.0mm A: 8.0mm F: 18.0mm 3: 3.2mm 6: 4.0mm 9: 6.0mm B: 10.0mm G: 20.0mm 4: 3.5mm 7: 4.5mm V: 7.0mm E: 16.0mm I: 24.0mm Taping

T: Reel packing 卷盘包装



P: Ammo packinų 折叠包装

■ 包封材质 Coating material D: 酚醛 (黄) Phenolic (Yellow) E: 环氧(蓝) Epoxy (Blue)

温度特性

code

Temperature Class 1: CH: NPO UJ: N750 SL: SL DL: N3300

Class 2: B4: Y5P E4: Y5U F4: Y5V R1: X7R R4: Y5R

Class 3: 3E: Y5U 3F: Y5V

■ 生产识别码 Production identification 内部控制码,本规格书不作说明。

Inteer control code will not be described in this an approval specifications.

■ 标志 见规格表最后一栏

Marking See the last column of the Data sheet



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## 6. 测量和试验

### MEASUREMENT AND TEST

Ν	MEASUREMENT AND TEST				
序 No.	项目 Item	标准 Specifications	试验方法 Testing Method		
1	工作温度范围 Operating temp. range	-25°C~85°C			
2	额定电压 Rated voltage (U <sub>R</sub> )	50VDC	额定电压是指在工作温度范围内,可连续施加在电容器上的最大直流电压或最大交流电压有效值或脉冲电压的峰值。 当交流电压附加于直流电压时,Vp-p或Vo-p(以较大者为准)应维持在额定电压范围内。 The rated voltage is defined as the maximum voltage which may be applied continuously to the capacitor within the operating temperature range. When AC voltage is superimposed on DC voltage, Vp-p or Vo-p, whichever is larger, should be maintained within the rated voltage range.		
3	外观与尺寸 Appearance (APP) and Dimension	外观形状没有明显的缺点,尺寸在标准范围内。 No marked defect on appearance form and dimensions are within specified range.	电容必须用目视检查其明显的缺点。 The capacitor should be visually inspected for evidence of defect. 尺寸用游标卡尺测量。 Dimensions should be measured with slide calipers.		
4	标志 Marking	清晰易于识别。 To be easily legible.	目视检查。 The capacitor should be visually inspected.		
5	容量 (C <sub>R</sub> ) Capacitance (C <sub>R</sub> )	0.08uF~0.18uF	容量与tanδ在25±1°C下,使用1kHz和1Vrms下测量。 The capacitance, tanδ should be measured at 25°C±1°C with 1kHz and 1.0V		
6	损耗角正切(tanδ) Tangent of loss angle (tanδ)	0.05 max	(r.m.s.).		
7	绝缘电阻 Insulation Resistance (IR)	250MΩ min	在两导线间施加下列电压进行测量,时间不超过1分钟。 The insulation resistance should be measured with a test voltages of below at normal temperature and humidity and less than 1 min. of charging. 50V @ RH<70%		
8	耐电压 Testing Voltage (TV)	没有不合格 No failure.	在电容器两导线间施加下列测试电压(充/放电流不大于2mA)1到5s 后不被破坏。 The capacitor should not be damaged when test voltages (Charge/Discharge current		
9	导线抗张强度 Terminal Tensile Strength	引线不应断开,电容器不应破裂。 Lead wire should not be cut off capacitor should not be broken.	固定住电容器,在引线上逐步施加径向拉力直至10N,并保持10±1秒钟。 Fix the body of the capacitor and apply a tensile weight gradually to each lead wire in the radial direction of the capacitor up to 10N and keep it for 10±1 sec.		
10	导线抗折强度 Terminal Bending Strengt	引线不应断开,电容器不应破裂。 Lead wire should not be cut off capacitor should not be broken.	在引线出口处沿一个方向施加5N、90°的弯曲压力,再恢复至初始状态。之后,在2至3秒内再以相反方向施加一次90°的弯曲压力。 Each lead wire should be subjected to 5N of weight and bent 90° at the point of egress, in one direction, then returned to its original position and bent 90° in the opposite direction at the rate of one bent in 2 to 3 sec.		
11	可焊性 Solderability of Leads	导线必须有3/4以上的面积均匀附着焊锡 Lead wire should be soldered with uniform coating on the axial direction over 3/4 of the circumferential direction.	引线必须浸入焊料中3±0.5秒钟,浸入深度离导线根部1.5-2.0mm。 The lead wire of a capacitor should be dipped into molten solder for 3±0.5 sec. The depth of immersion is up to about 1.5 to 2.0mm from the root of lead wires. 焊锡温度: 无铅焊(Sn-3Ag-0.5Cu) 245±5°C Temp. of solder: Lead Free Solder (Sn-3Ag-0.5Cu) 245±5°C 易溶解的H63号锡235±5°C H63 Eutectic Solder 235±5°C		

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序	项目	- ranig		试验方法
No.			Specifications	Testing Method
		APP	没有可见损伤 No marked defect	如图所示,导线浸入离导线根部1.5-2.0mm处、锡温为260±10°C中3.5±0.5秒。  — As shown in figure, the lead wires should be immersed in solder of 260±5°C up
12	焊锡耐热性 Soldering Effect	ΔC/C	±20%	to 1.5 to 2.0mm from the root of terminal for 3.5±0.5 sec. 试验后处理:  — Post-treatment:
		IR	大于初始标准的50% More than 50% initial specified value.	电容必须存放在室温下24小时。 Capacitor should be stored for 24 h
		TV	如第8项进行试验,没有不合格 Per Item 8.	at room condition.
		APP	没有可见损伤 No marked defect	将电容器导线焊稳和调整振动频率范围为10-55Hz、总振幅为 1.5mm,振动从10Hz到55Hz,然后再回到10Hz,大约一分钟。
13	振动 Vibration Resistance	$C_{R}$	如第5项进行试验,没有不合格 Per Item 5.	The capacitor should be firmly soldered to the supporting lead wire and vibrated at a frequency range of 10 to 55Hz, 1.5mm in total amplitude, with about a 1 minute rate of vibration change from 10Hz to 55Hz and back to 10Hz.
		tanδ	如第6项进行试验,没有不合格 Per Item 6.	总时间六个小时,每两小时在相互垂直方向来回三次。 Apply for a total of 6 hours, 2 hours each in 3 mutually perpendicular directions.
14	温度特 <sup>·</sup> Temperature char	_	见规格表规定 See specification sheet	电容器必须按照下列每一步骤进行测量。 The capacitance measurement should be made at each step specified in below.  Stwp Temperature (±1°C)  1 +20 2 Lower category temperature  3 +20 4 Upper category temperature 5 +20
		APP	没有可见损伤 No marked defect	施加下列电压的电容保持在温度为40±2°C、相对湿度为90-95%条件 一下500±12小时。
		ΔC/C	±30%	Apply a test voltage of below for 500±12 hours at 40±2°C in 90 to 95% relative humidity.
15	耐湿负荷 Humidity Loading	tanδ	小于初始标准的2倍 Less than 200% initial specified value.	50V dc
		IR	大于初始标准的25% More than 25% initial specified value.	试验后处理: Post-treatment: 电容必须贮存在室温条件下24小时。
		TV	如第8项进行试验,没有不合格 Per Item 8.	Capacitor should be stored for 24 h. at room condition.
		APP	没有可见损伤 No marked defect	在上限类别温度相对温度不大于50%条件下施加下列电压1000+48/- 0小时(充/放电流小于5mA) — Apply a test voltages of below for 1000+48/-0 hours at Upper category
	高温负荷	ΔC/C	±30%	temperature with a relative humidity of 50% max. (Charge/discharge current \$ 5mA)
16	High Temperature Load	tanδ	小于初始标准的2倍 Less than 200% of initial specified value.	60V dc
		IR	大于初始标准的50% More than 50% initial specified value.	试验后处理: 电容器应在室温下储存24小时。 Post-treatment: Capacitor shall be stored for 24 h at room condition.
		TV	如第8项进行试验,没有不合格 Per Item 8.	



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序 No.			标准 Specifications	试验方法 Testing Method			
17	温度循环 Temperature and Immersion Cycle	APP	没有可见损伤 No marked defect	温度循环试验按以下条件进行试验和测量			
		ΔC/C	±20%	Temperature cycling shall be measured in the following test.  Step 1 2 Temperature Lower category Upper cate	ving test. 2 Upper category		
		tanδ	小于初始标准的2倍 Less than 200% of initial specified value.		temperature	temperature	
		IR	大于初始标准的50% More than 50% initial specified value.		s: 5 cycles		
		TV	如第8项进行试验,没有不合格 Per Item 8.	Post-treatment: Capacitor shall be stored for 24 h at room condition.		at room condition.	

#### 7. 包装和储存

PACKAGING AND STORAGE

#### 7.1. 包装

#### **PACKAGING**

盒装编带品, 每盒2000pcs (每箱20 000pcs)。

Taping of ammo packing, 2000 pcs/box (20 000 pcs/carton)

散包包装,每包1000pcs(视瓷片大小不等,每箱20000~10000pcs)。

Bulk packing, 1000 pcs/bag (Depending on the disc size, each carton is  $20~000 \sim 100~000$ pcs)

#### 7.2. 贮存条件

#### STORAGE ENVIRONMENT

电容器绝缘包封层不是完美的密封形式,因此,请勿将电容器存放在腐蚀性气体中,尤其是存在氯气、硫气、酸、碱、盐等场所,同时应防潮。

The insulating coating of capacitors does not form a perfect seal; therefore, do not use or store capacitors in a corrosive atmosphere, especially where chloride gas, sulfide gas, acid, alkali, salt or the like are present. And avoid exposure to 电容器应存放在温度及相对湿度分别不超出5~40°C及15~70%范围的场所。

Store the capacitors where the temperature and relative humidity do not exceed 5 to 40 degrees centigrade and 15 to 70%. 请在6个月内使用电容器。超过6个月,在使用前确认其可焊性和电容量。

Use capacitors within 6 months after delivered. for more than 6 months, confirm the solderability and capacitance before use.



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### 8. 测量和使用注意事项

MEASURING AND APPLICATION NOTICE

#### 8.1. 测量注意事项

Measurement notice

请在以下条件下测量。

Please measure under the following conditions.

#### 8.1.1. 标准大气条件

Standard atmospheric conditions

除非另有规定,所有试验和测量应按在IEC 60068-1的5.3中规定的试验用标准大气条件下表进行。

Unless otherwise specified, all tests and measurements shall be made under standard atmospheric conditions for testing as given in 5.3

of IFC 60068-1.

温度	相对湿度	气压	
Temperature	Relative humidity	Air pressure	
15°C∼35°C	25%~75%	86kPa~106kPa	

在进行测量之前,电容器应在测量温度下存放足够时间,以使整个电容器都达到这一温度。为此目的,规定与试 验后恢复时间同样的时间,通常是足够的。

Before the measurements are made, the capacitor shall be stored at the measuring temperature for a time sufficient to allow the entire capacitor to reach this temperature. The period as prescribed for recovery at the end of a test is normally sufficient for this purpose.

#### 在标准大气条件下进行测量,其测量结果存在争议时应采用仲裁温度(见8.1.3)重复测量。

Test and measurement shall be made under standard atmospheric conditions for testing, in the event of a dispute, the measurements shall be repeated using one of the referee temperatures (as given in 8.1.3).

当按某一顺序进行试验时,一个试验的最后测量可以作为下一试验的初始测量。

When tests are conducted in a sequence, the final measurements of one test may be taken as the initial measurements for the succeeding test.

在测量期间,不应使电容器受到气流、阳光直射或可能引起误差的其他影响。

#### 8.1.2. 恢复条件

Recovery conditions

除非另有规定,恢复应在试验用标准大气条件(见8.1.1)下进行。

Unless otherwise specified recovery shall take place under the standard atmospheric conditions for testing (8.1.1).

如果恢复必须在严格控制的条件下进行,应采用IEC 60068-1中5.4.1的控制条件。

If recovery under closely controlled conditions is necessary, the controlled recovery conditions of 5.4.1 of IEC 60068-1 shall be used. 除非有关规范另有规定,恢复时间应为1h~2h。

Unless otherwise specified in the relevant specification, a duration of 1 h to 2 h shall be used.

#### 8.1.3. 仲裁条件

Referee conditions

#### 在仲裁情况下,应选用IEC 60068-1中5.2中规定的仲裁试验用标准大气条件。

For referee purposes, one of the standard atmospheric conditions for referee tests taken from 5.2 of IEC 60068-1, as given in table 1 below, shall be selected:

温度	相对湿度	气压	
Temperature	Relative humidity	Air pressure	
25°C±1°C	48%~52%	86kPa~106kPa	

#### 8.2. 工作电压

Operating voltage

向电容器施加的电压切勿超过额定电压。

The voltage applied to the capacitor must not exceed the rated voltage.

电压	直流电压	直流+交流电压	交流电压	脉冲电压
Voltage	DC Voltage	DC+AC Voltage	AC Voltage	Pulse Voltage
测量位置 Positional Measurement	Vo-p	₩ <sub>O-p</sub>	N N N N N N N N N N N N N N N N N N N	V V V V V V V V V V V V V V V V V V V



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在交流电路或纹波电流电路中使用直流额定电压电容器时,请务必将外加电压的Vp-p值或包含直流偏置电压的Vo-p值维持在额定电压范围内。

When DC-rated capacitors are to be used in AC or ripple current circuits, be sure to maintain the Vp-p value of the applied voltage or the Vo-p which contains DC bias within the rated voltage range.

若向电路施加电压,开始或停止时可能会因谐振或切换产生暂时的异常电压。请务必使用额定电压范围包含这些异常电压的电容器。

When the voltage is applied to the circuit, starting or stopping may generate irregular voltage for a transit period because of resonance or switching. Be sure to use a capacitor with a rated voltage range that includes these irregular voltages.

#### 8.3. 过电压影响

Overvoltage effects

施加到电容器的过电压可能会导致电容器内部介质层击穿而引起电路短路。

The overvoltage applied to the capacitor may cause the dielectric layer of the capacitor to break down and cause a short circuit. 击穿前的可持续时间取决于施加电压和周围温度。

The duration before the breakdown depends on the applied voltage and the ambient temperature.

#### 8.4. 焊锡

Soldering

当在PCB/PWB焊锡这个产品时,不要超过电容器的焊锡耐热性标准。过度的热量会使电容器内部焊锡熔化,可能导致热冲击而使陶瓷介质出现暗裂。

When soldering this product to a PCB/PWB, do not exceed the solder heat resistance specifications of the capacitor. Subjecting this product to excessive heating could melt the internal junction solder and may result in thermal shocks that can crack the ceramic



注意:请不要使用于双波峰焊锡中,如果需要使用于双波峰焊锡,请提前通知 我公司。

Note: please do not use in double wave soldering. If you use double wave soldering, please inform our company in advance.

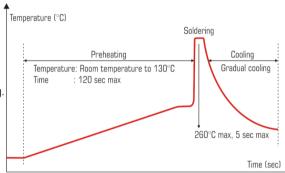


Fig.: Wave-soldering temperature-time profile to recommend

当使用烙铁进行手工焊锡时,应该遵照下列条件:

When soldering capacitor with a soldering iron, it should be performed in the following conditions.

焊锡温度: 320℃最大

Temperature of iron-tip: 320 degrees C. Max.

烙铁头: 不超过40W

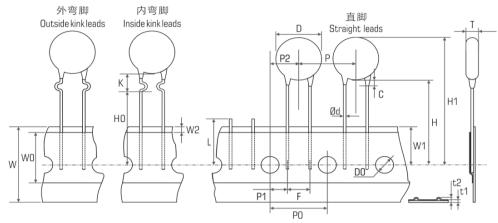
Soldering iron wattage: 40W max. 焊锡时间: 不超过3.0秒 Soldering time: 3.0 sec. Max.

# Dersonic®

## 圆板陶瓷电容器规格承认书 APPROVAL SPECIFICATION FOR DISC CERAMIC CAPACITORS

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## 9. 编带尺寸规格 TAPING SPECIFICATIONS



项目		代码	标准 (mm)	备注
ツ目 Item		1七年 Symbol	Specification (mm)	質注 Remarks
F线直径		оунши	'	Helligi V2
	d	0.50±0.05		
	元件间间距 Pitch of component			
	进料孔间距 Feed hole pitch			间距累积误差:每20孔1.0mm Cumulative pitch error: 1.0mm/20 pitch
-	A孔与导线垂直距离 eed hole center to lead	P1	3.85±0.7	
-	A孔与元件垂直距离 er to component center	P2	6.35±1.3	
	脚距 Lead-to-lead distance	F	5.0±0.8	
	元件偏移 Component alignment	Δh	≤2.0	
	B编带偏离,左或右 along tape, Left or right	ΔS	≤1.3	
	纸带宽 Tape width	W	18.0+1.0/-0.5	
	胶带宽 Hold-down tape width	WO	≥7.0	
	孔位 Hole position	W1	9.0+0.75/-0.5	
ŀ	胶带位置 Hole-down tape position	W2	€3.0	
元件到纸带的高度	直脚类型 For straight lead type	Н	18.0+2/-0	
Height of component from tape center	弯脚类型 For kinked lead type	Н0	16.0±0.5	
元件高度 Component height		H1	≤32.25	
	D0	4.0±0.3		
	编带厚度 Total tape thickness			纸带厚度: 0.5±0.1mm Ground paper: 0.5±0.1mm
	编带厚度(含导线) Total thickness, tape and lead wire			
	L	≤11.0		