

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

| 客户 CUSTOMER | | $\dot{\underline{\mathbf{v}}}$ | 创 | |
|-----------------------------|--------------------------------------|--------------------------------|--------------------|----------------|
| 客户料号 CUSTOMER P/N | | | | |
| 客户规格描述 CUST. DESCRIPTION | | | | |
| 规格描述 DESCRIPTION | 50V/104/Z/F | 5.08/直脚/L18/ | 酚醛(黄)/Y5V(]] | [])/5P/0MF |
| 产品编码 PART NUMBER | | CC1H104ZC1I | FD3F5P10MF | |
| 曰期 DATE | 2020/8/22 | 文件编号 DOC. NO. | DEC-SA | -WI005 |
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| 批准 / APPROVED EV机 | 审核 CHEFY BY | 制订 FORMULATE BY | 批 准 APPROVED BY | 审核 CHECK BY |
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| 圆板陶瓷电容器 | 器规格承认书 | 日期DATE: | 2019/3/12 |
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| 1. 规格表 DATA SHEET | D D D D D D D D D D D D D D D D D D D | D T D F F 平行脚 互脚(长脚) Vertical kink Lead Straight Lead | → ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ | | |
| | | (Long lead wire) | (Short lead wire) | | |
| | 产品编码 Part number | CC1H104ZC1FD3F | 5P10MF | | |
| | 规格描述 Description | 50V/104/Z/F5.08/直脚/L18/酚西 | 荃(黄)/Y5V(III)/5P/ | DMF | |
| | 客户料号 Customer P/N | | | | |
| | 介质类别 Dielectric class | Class 3 | | | |
| | 额定电压 Rated voltage | 50Vdc | | | |
| | 电容量 Capacitance | 0.1uF +80/-20% @ 1kHz 0.1V 25°C | | | |
| | 损耗角正切 Tangent of loss angle | 0.05 max @ 1kHz 0.1V 25℃ | | | |
| | 耐电压 Testing voltage | 75Vdc (Charge/discharge 2mA max) 3s PASS | | | |
| | 绝缘电阻 Insulation resistance | 250MΩ min @ 50V 6 | Os, RH≤70% | | |
| | 温度特性 | Y5V(III) | | | |
| | Temperature characteristics | ∆C/C: +22/-82% @ | -25°C~85°C | | |
| | D (Diameter) | 5.6mm+0.7/-C |).3mm | | |
| | T (Thickness) | 2.2mm±0.5 | mm | | |
| 尺寸 | F (Lead spacing) | 5.08mm±0.8 | 3mm | | |
| DIMENSIONS | L (Lead length) | 18mm±4.0 | mm | | |
| | ød (Lead diameter) | 0.55mm m | ах | | |
| | C (Coating rundown on leads) | 1.5mm ma | IX | | |
| | 标志 Marking | ⊕ W 104 —— | | | |
| | | | | | |



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| 圆板陶瓷 | 瓮电容器规 材 | 各承认书 | | | | 日期DATE: | 2019/3 | |
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| 5. 产品编码 PART NUMBER 本公司产品编码方式,举 The product part number repr <u>CC</u> 1 <u>H</u> _{系列} 额定电压 | | <u>C1</u> | es are as fol <u>Ē</u> 编带包装或 | <u>D</u> | <u>3F</u> 温度特性 | <u>5P1</u> 生产识别码 | <u>OMF</u> 标志 | |
| Series Rated voltage ■ 系列 Series | Nominal Capacita capacitance toleran CC: 圆板陶瓷电容器 Disc ceramic capacit | ce Leads format | 散装脚长 Taping packing or Leads length of bulk | Coating material | Temperature characteristic | | Marking | |
| ■额定电压 Rated voltage | 1C: 16V 1E: 25V 1H: 50V | 2A: 100V 2E: 250V | | | | | | |
| ■标称容量 Nominal capacitance | 用3位数表示,单1 In 3 digits, unit is pF, 104: 0.1uF | | | | | | | |
| ■容量偏差 Capacitance tolerance | C: ±0.25pF D: ± | J: ±5% K: ±10% M: ±20% | | S: +50%/- Z: +80%/-2 P: +100%/ | 20% | | | |
| ■引线成型方式 Leads format | 代码 脚距 Code Leads spa | | 代码 Code | 1 | 2 | 4 | 7 | |
| | A 2.54m C 5.08m D 7.50m E 10.0m | m m | 脚型 样式 Leads style drawing | $\bigcap_{j=1}^{n}$ | | \bigcirc | | |
| ■编带包装或脚长 Taping packing or Leads length | Taping T: Reel packing P: Ammo packing | | 9: 6.0mm A: 8.0mm | E: 16.0mm F: 18.0mm G: 20.0mm | l: 24.0mm | | | |
| ■包封材质 Coating material | D: 酚醛(黄) Phenolic (Yellow) | E: 环氧(蓝 Epoxy (Blue | | | | | | |
| ■温度特性 Temperature characteristic | 3E: Y5U <mark>3F: Y5V</mark> | | | | | | | |
| ■生产识别码 Production identification code | 内部控制码,本规格 Inteer control code will r | | this an approva | l specifications | i. | | | |
| ■标志 Marking | 见规格表最后一栏 See the last column of th | he Data sheet | | | | | | |

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7. 测量和试验

MEASUREMENT AND TEST

| | | | 1 |
|----------|---|--|--|
| 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 _R) | 见"规格表"(页码3) See "Data sheet" (P3). | 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 _R) Capacitance (C _R) | 在误差范围内。 Within specified tolerance | 容量与tanδ在25±1℃下,使用1kHz和0.1Vrms下测量。 The capacitance, tanδ should be measured at 25℃±1℃ with 1kHz and 0.1V |
| 6 | 损耗角正切(tanδ) Tangent of loss angle (tanδ) | 0.050 max | (r.m.s.). |
| 7 | 绝缘电阻 Insulation Resistance (IR) | 1 000M Ω or 25M Ω uF min, Whichever is smaller (IR \geqslant 25M Ω uF/CR, CR: uF) | 在两导线间施加额定电压(额定电压大于500V时,使用500V)进行测量,时间不超过1分钟。 The insulation resistance should be measured with a DC voltage not exceeding the rated voltage (above 500V rated voltage tested by 500V) at normal temperature and humidity and less than 1 min. of charging. |
| 8 | 耐电压 Testing Voltage (TV) | 没有不合格 No failure. | 在两导线间施加1.5倍额定电压无异常,时间1s到5s(充/放电流小于 5mA): The capacitor should not be damaged when 1.5 times rated voltage is applied between the lead wires for 1 to 5 sec (Charge / Discharge current ≤ 5mA). |
| 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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↘ 续上表

Continued on the table

| 序 No. | 项目 Item | | 标准 Specifications | 试验方法 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 to 1.5 to 2.0mm from the root of terminal for 3.5±0.5 sec. |
| 12 | 焊锡耐热性 Soldering Effect | Δ C/C | ±20% | 试验后处理: Post-treatment: 电容必须存放在室温下24小时。 |
| | | IR | 大于初始标准的25% More than 25% initial specified value. | 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 a a frequency range of 10 to 55Hz, 1.5mm in total amplitude, with about a 1 minut rate of vibration change from 10Hz to 55Hz and back to 10Hz. |
| | | $tan\delta$ | 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 | 温度系 Temperature Cha (TC) | | Y5U: +22/-56% Y5V: +30/-80% | 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 -25 3 +20 4 +85 5 +20 |
| | | APP | 没有可见损伤 No marked defect | 施加额定电压的电容保持在温度为40±2℃、相对湿度为90-95%条件 ——下500±12小时。 |
| 15 | 耐湿负荷 Humidity | $\Delta C/C$ | Y5U: ±20% Y5V: ±30% | Apply the rated voltage for 500 ± 12 hours at $40 \pm 2^{\circ}$ C in 90 to 95% relative humidity. |
| 10 | Loading | $tan\delta$ | 小于初始标准的2倍 Less than 200% initial specified value. | 试验后处理: Post-treatment: |
| | | IR | 大于初始标准的25% More than 25% initial specified value. | ── 电容必须贮存在室温条件下48小时。 Capacitor should be stored for 48 h at room condition. |
| | | APP | 没有可见损伤 No marked defect | 在85±2℃、相对温度不大于50%条件下施加1.2倍额定电压1000+48/ |
| 16 | 高温负荷 High | Δ C/C | Y5U: ±20% Y5V: ±30% | 0小时(充/放电流小于5mA) Apply a DC voltage of 120% of the rated voltage for 1000+48/-0 hours at 85± — 2°C (Y5P, X7R: 125°C) with a relative humidity of 50% max. (Charge/discharge |
| ĨŪ | Temperature Load | | 小于初始标准的2倍 Less than 150% of initial specified value. | 2 C (F3F, 7/R, 123 C) with a relative number of 50% max. (Charge/discharge current ≤5mA) 试验后处理: 电容器应在室温下储存48小时。 |
| | | IR | 大于初始标准的25% More than 25% initial specified value. | Post-treatment: Capacitor shall be stored for 48 h at room condition. |
| _ | | 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 Temperature cycling shall be measured in the following test. |
| 17 | 温度循环 Temperature and | Δ C/C | Y5U: ±20% Y5V: ±30% | Step 1 2 Temperature -25±2°C +85±2°C Time 30min 30min |
| 17 | Immersion Cycle | $tan\delta$ | 小于初始标准的2倍 Less than 150% of initial specified value. | 循环次数: 5次 Cycle numbers: 5 cycles |
| | | IR | 大于初始标准的25% More than 25% 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. |

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8. 包装和储存

PACKAGING AND STORAGE

8.1. 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20 000~100 000pcs)。 Bulk packing, 1000 pcs/bag (Depending on the disc size, each carton is 20 000~100 000pcs)

8.2. 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。电容器应存放在温度及相对湿度分别不超出5~40℃及15~70%范围 的场所。

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 moisture. 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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| | 量和使用注意事功 SURING AND APPL 测量注意事项 Measurement notice 请在以下条件下测 | ICATION NOTICE | | | | | |
| | | 《里。 er the following condit | tions. | | | | |
| 9.1.1. | | 所有试验和测量应 | 按在IEC 60068-1的5.3中 neasurements shall be made | | | | ing as given in 5.3 |
| | | 温度 | 相对湿度 | | 气压 | | |
| | | emperature | Relative humidity | | r pressure | | |
| | | 5°C~35°C | 25%~75% 温度下存放足够时间, | | Pa~106kPa | | |
| | Test and measureme | nt shall be made unde | 量结果存在争议时应采 er standard atmospheric col temperatures (as given in 9 | nditions for testi | | | e measurements |
| 9.1.2. 9.1.3. | When tests are cond succeeding test. 在测量期间,不成 During measurement 恢复条件 Recovery conditions 除非另有规定, 物 Unless otherwise spe 如果恢复必须在P If recovery under clos 除非有关规范另有 Unless otherwise spe 仲裁条件 Referee conditions 在仲裁情况下, 反 | テ试验时,一个试 lucted in a sequence, 立使电容器受到气 s the capacitor shall 恢复应在试验用标 空格控制的条件下 sely controlled condit 与规定,恢复时间 ecified in the relevant 立选用IEC 60068-11 s, one of the standard | 验的最后测量可以作为 the final measurements of of 流、阳光直射或可能引 not be exposed to draughts 准大气条件(见9.1.1) take place under the standa 进行,应采用IEC 60068 ions is necessary, the contr | 下一试验的初 ne test may be t 起误差的其他 direct sunlight r进行。 rd atmospheric o -1中5.4.1的控 olled recovery cc 1 h to 2 h shall b 用标准大气条 | taken as the initial 2影响。 or other influences conditions for test 制条件。 onditions of 5.4.1 pe used. | s likely to caus ing (9.1.1). of IEC 60068- | e error. 1 shall be used. |
| | When tests are cond succeeding test. 在测量期间,不成 During measurement 恢复条件 Recovery conditions 除非另有规定, 物 Unless otherwise spe 如果恢复必须在列 If recovery under clos 除非有关规范另有 Unless otherwise spe 仲裁条件 Referee conditions 在仲裁情况下, 反 For referee purposes below, shall be select | テ试验时,一个试 lucted in a sequence, 立使电容器受到气 so the capacitor shall 恢复应在试验用标 应复应在试验用标 些格控制的条件下 sely controlled condit 有规定,恢复时间 ecified in the relevant 立选用IEC 60068-11 s, one of the standard ted: 温度 | 验的最后测量可以作为 the final measurements of o 流、阳光直射或可能引 not be exposed to draughts 准大气条件(见9.1.1) take place under the standa 进行,应采用IEC 60068 ions is necessary, the contr 应为1h~2h。 specification, a duration of 中5.2中规定的仲裁试验 atmospheric conditions for 相对湿度 | 下一试验的初 ne test may be t 起误差的其他 direct sunlight o 下进行。 rd atmospheric o -1中5.4.1的控 olled recovery cc 1 h to 2 h shall b 用标准大气条 referee tests ta | taken as the initial 2影响。 or other influences conditions for test 制条件。 onditions of 5.4.1 pe used. e件。 ken from 5.2 of IE 气压 | s likely to caus ing (9.1.1). of IEC 60068- | e error. 1 shall be used. |
| | When tests are cond succeeding test. 在测量期间,不应 During measurement 恢复条件 Recovery conditions 除非另有规定,性 Unless otherwise spe 如果恢复必须在P If recovery under clos 除非有关规范另有 Unless otherwise spe 仲裁条件 Referee conditions 在仲裁情况下,反 For referee purposes below, shall be select | テ试验时,一个试 lucted in a sequence, 立使电容器受到气 s the capacitor shall 恢复应在试验用标 ecified recovery shall 四格控制的条件下 sely controlled condit 有规定,恢复时间 ecified in the relevant 立选用IEC 60068-11 s, one of the standard ted: 温度 remperature | 验的最后测量可以作为 the final measurements of of 流、阳光直射或可能引 not be exposed to draughts 准大气条件(见9.1.1) take place under the standa 进行,应采用IEC 60068 ions is necessary, the contr 应为1h~2h。 specification, a duration of 中5.2中规定的仲裁试验 atmospheric conditions for 相对湿度 Relative humidity | 下一试验的初 ne test may be t 起误差的其他 direct sunlight o 下进行。 rd atmospheric o -1中5.4.1的控 olled recovery cc 1 h to 2 h shall b 用标准大气条 referee tests ta | taken as the initial 影响。 or other influences conditions for test 制条件。 onditions of 5.4.1 pe used. e件。 iken from 5.2 of IE 气压 r pressure | s likely to caus ing (9.1.1). of IEC 60068- | e error. 1 shall be used. |
| 9.1.3. | When tests are cond succeeding test. 在测量期间,不成 During measurement 恢复条件 Recovery conditions 除非另有规定, 物 Unless otherwise spe 如果恢复必须在P If recovery under clos 除非有关规范另有 Unless otherwise spe 仲裁条件 Referee conditions 在仲裁情况下, 反 For referee purposes below, shall be select | テ试验时,一个试 lucted in a sequence, 立使电容器受到气 so the capacitor shall 恢复应在试验用标 应复应在试验用标 些格控制的条件下 sely controlled condit 有规定,恢复时间 ecified in the relevant 立选用IEC 60068-11 s, one of the standard ted: 温度 | 验的最后测量可以作为 the final measurements of o 流、阳光直射或可能引 not be exposed to draughts 准大气条件(见9.1.1) take place under the standa 进行,应采用IEC 60068 ions is necessary, the contr 应为1h~2h。 specification, a duration of 中5.2中规定的仲裁试验 atmospheric conditions for 相对湿度 | 下一试验的初 ne test may be t 起误差的其他 direct sunlight o 下进行。 rd atmospheric o -1中5.4.1的控 olled recovery cc 1 h to 2 h shall b 用标准大气条 referee tests ta | taken as the initial 2影响。 or other influences conditions for test 制条件。 onditions of 5.4.1 pe used. e件。 ken from 5.2 of IE 气压 | s likely to caus ing (9.1.1). of IEC 60068- | e error. 1 shall be used. |
| | When tests are cond succeeding test. 在测量期间,不应 During measurement 恢复条件 Recovery conditions 除非另有规定,性 Unless otherwise spe 如果恢复必须在P If recovery under clos 除非有关规范另有 Unless otherwise spe 仲裁条件 Referee conditions 在仲裁情况下,应 For referee purposes below, shall be select | テ试验时,一个试 lucted in a sequence, 立使电容器受到气 s the capacitor shall 恢复应在试验用标 ecified recovery shall 严格控制的条件下 sely controlled condit 有规定,恢复时间 ecified in the relevant 立选用IEC 60068-11 s, one of the standard ted: 温度 emperature 25°C±1°C | 验的最后测量可以作为 the final measurements of o 流、阳光直射或可能引 not be exposed to draughts 准大气条件(见9.1.1) take place under the standa 进行,应采用IEC 60068 ions is necessary, the contr 应为1h~2h。 specification, a duration of 中5.2中规定的仲裁试验 atmospheric conditions for 相对湿度 Relative humidity 48%~52% | 下一试验的初 ne test may be t 起误差的其他 direct sunlight d 下进行。 rd atmospheric o -1中5.4.1的控 olled recovery cc 1 h to 2 h shall b 用标准大气条 referee tests ta <u>Ai</u> 86kl | taken as the initial 影响。 or other influences conditions for test 制条件。 onditions of 5.4.1 pe used. e件。 iken from 5.2 of IE 气压 r pressure | s likely to caus ing (9.1.1). of IEC 60068- | e error. 1 shall be used. |
| 9.1.3. | When tests are cond succeeding test. 在测量期间,不应 During measurement 恢复条件 Recovery conditions 除非另有规定,性 Unless otherwise spe 如果恢复必须在P If recovery under clos 除非有关规范另有 Unless otherwise spe 仲裁条件 Referee conditions 在仲裁情况下,应 For referee purposes below, shall be select | テ试验时,一个试 lucted in a sequence, 立使电容器受到气 s the capacitor shall 恢复应在试验用标 ecified recovery shall 严格控制的条件下 sely controlled condit 有规定,恢复时间 ecified in the relevant 立选用IEC 60068-11 s, one of the standard ted: 温度 emperature 25°C±1°C | 验的最后测量可以作为 the final measurements of of 流、阳光直射或可能引 not be exposed to draughts 准大气条件(见9.1.1) take place under the standa 进行,应采用IEC 60068 ions is necessary, the contr 应为1h~2h。 specification, a duration of 中5.2中规定的仲裁试验 atmospheric conditions for 相对湿度 Relative humidity 48%~52% 电压。 not exceed the rated voltag | 下一试验的初 ne test may be t 起误差的其他 direct sunlight d 下进行。 rd atmospheric o -1中5.4.1的控 olled recovery cc 1 h to 2 h shall b 用标准大气条 referee tests ta <u>Ai</u> 86kl | taken as the initial 2影响。 or other influences conditions for test 制条件。 onditions of 5.4.1 be used. ce件。 ken from 5.2 of IE 气压 pressure Pa~106kPa 脉 | s likely to caus ing (9.1.1). of IEC 60068- | e error. 1 shall be used. |

| λ | | 编号DOC NO. | DEC-SA-WI005 |
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| Der | rsonic | 版本REV. | A/0 |
| | 圆板陶瓷电容器规格承认书 | 日期DATE | 2019/3/12 |
| | APPROVAL SPECIFICATION FOR DISC CERAMIC CAPACITO | RS 页码PAGE | 9 / 10 |
| | 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 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, b 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 异常电压的电容器。 When the voltage is applied to the circuit, starting or stopping may generat or switching. Be sure to use a capacitor with a rated voltage range that inc | ne sure to maintain the Vp-p value of the 时的异常电压。请务必使用额定时 se irregular voltage for a transit period b | applied voltage or the B压范围包含这些 |
| 9.3. | 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 The overvoltage applied to the capacitor may cause the dielectric layer of th 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 a | 起电路短路。 ne capacitor to break down and cause a s | short circuit. |
| 9.4. | 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机 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 r product to excessive heating could melt the internal junction solder and may element. | 示准。过度的热量会使电容器内部 resistance specifications of the capacitor | r. Subjecting this |
| | 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. | erature (°C) Preheating Temperature: Room temperature to 130°C Time : 120 sec max | ring Cooling Gradual cooling 60°C max, 5 sec max |

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°C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 | | | | | 编号DOC NO.: | DEC-SA-WI005 |
|--|--|--------------|-------------------------------|--|---|--------------|
| | r · · · · | | | | 版本REV.: | A/0 |
| | 电容器规格 | | | - | 日期DATE: | 2019/3/12 |
| APPROVAL SPECIFICATIO | APPROVAL SPECIFICATION FOR DISC CERAMIC CAPACITORS | | | | 页码PAGE: | 10 / 10 |
| 10. 编带尺寸规格 TAPING SPECIFICATIONS ^{外弯脚} Outside kink lear | 内弯脚 Is Inside kink leads | | | 复脚 | Ţ | |
| | | | | ht leads | | |
| 项目 Item | | 代码 Symbol | 标准 (mm) Specification (mm) | | 备注 Remarks | |
| | | d | 0.50±0.05 | | nema ka | |
| | 元件间间距 Pitch of component | Р | 12.7±1.0 | | | |
| | 进料孔间距 Feed hole pitch | PO | 12.7±0.3 | | 晨差:每20孔1.0mm itch error: 1.0mm/20 pitc | h |
| | 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 | | | |
| | 3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 | | | |
| | 胶带位置 Hole-down tape position | W2 | ≤3.0 | | | |
| 元件到纸带的高度 Height of component from tape | 直脚类型 For straight lead type | Н | 18.0+2/-0 | | | |
| center | 弯脚类型 For kinked lead type | HO | 16.0±0.5 | | | |
| | 元件高度 Component height | H1 | ≤32.25 | | | |
| | 进料孔直径 Feed hole diameter | DO | 4.0±0.3 | ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~ | 0.5 + 0.4 | |
| | 编带厚度 Total tape thickness | t1 | ≤0.9 | | 0.5±0.1mm ::0.5±0.1mm | |
| | 論带厚度(含导线) ess, tape and lead wire | t2 | ≤1.5 | | | |
| | 剪切长度 Length of snipped | L | ≤11.0 | | | |