



广东风华高新科技股份有限公司
GUANGDONG FENGHUA ADVANCED TECHNOLOGY HOLDING CO., LTD.

高 Q 电容 (HQ 系列)

概述

●特点:

高 Q 值
低等效串联电阻

●应用:

通讯设备
射频功率放大器
滤波网络
VCO

High Q Caps (HQ SERIES)

SUMMARY

●Features

High Q
Low equivalent series resistance

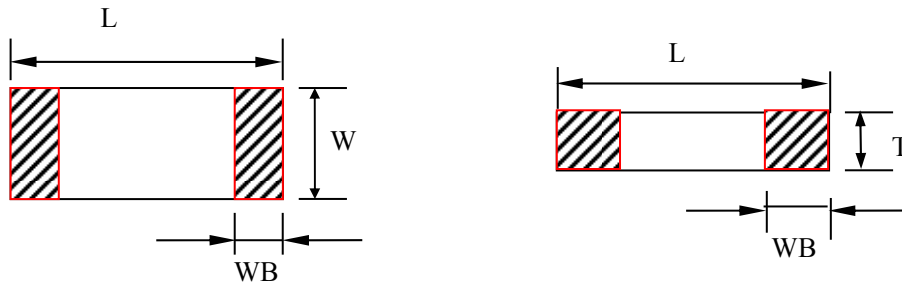
●Applications

Communication devices
RF power amplifier
Filter network
VCO



二、尺寸及结构 DIMENSIONS AND STRUCTURE

※ 尺寸 DIMENSIONS

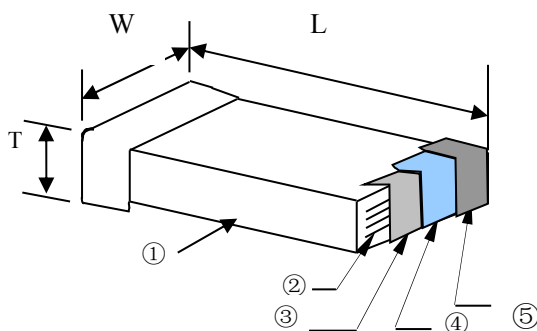


| 型号 Type | | 尺寸 Dimensions (mm) | | | |
|----------------------------|---------------------------|--------------------|-----------------|------------------------------------|-----------------|
| 英制表示 British expression | 公制表示 Metric expression | L | W | T | WB |
| 0201 | 0603 | 0.60 ± 0.03 | 0.30 ± 0.03 | 0.30 ± 0.03 | 0.15 ± 0.05 |
| 0402 | 1005 | 1.00 ± 0.05 | 0.50 ± 0.05 | 0.50 ± 0.05 | 0.25 ± 0.10 |
| 0603 | 1608 | 1.60 ± 0.10 | 0.80 ± 0.10 | 0.80 ± 0.10 | 0.30 ± 0.10 |
| 0805 | 2012 | 2.00 ± 0.20 | 1.25 ± 0.20 | 0.80 ± 0.20 1.25 ± 0.20 | 0.50 ± 0.20 |

备注：可根据客户的特殊要求设计符合客户需求的产品。

Note: We can design according to customer special requirements

※ 结构 STRUCTURE



| 序号 NO | 名称 Name |
|----------|----------------------------|
| ① | 陶瓷介质 Ceramic dielectric |
| ② | 内电极 Inner electrode |
| ③ | 外电极 Substrate electrode |
| ④ | 镍层 Nickel Layer |
| ⑤ | 锡层 Tin Layer |



三、型号规格表示方法 HOW TO ORDER

| | | | | | | |
|------|----|-----|---|-----|---|---|
| 0603 | HQ | 100 | J | 500 | N | T |
| ① | ② | ③ | ④ | ⑤ | ⑥ | ⑦ |

※说明 NOTES:

①尺寸 DIMENSIONS 单位 (unit): inch/ mm

| 尺寸规格 SizeCode | 0201 | 0402 | 0603 | 0805 |
|----------------------|-----------|-----------|-----------|-----------|
| 长×宽 (L×W) inch | 0.02×0.01 | 0.04×0.02 | 0.06×0.03 | 0.08×0.05 |
| 长×宽 (L×W) mm | 0.60×0.30 | 1.00×0.50 | 1.60×0.80 | 2.00×1.25 |

② 介质种类 DIELECTRIC STYLE

| | |
|---------------------------|-----|
| 介质种类 (Dielectric Code) | HQ |
| 介质材料 (Dielectric) | COG |

③ 标称容量 NOMINAL CAPACITANCE

单位(unit): pF

| 表示方式 (Express Method) | 实际值 (Actual Value) | 注：头两位数字为有效数字，第三位数字为 0 的个数；R 为小数点。 Note: the first two digits are significant; third digit denotes number of zeros; R=decimal point. |
|--------------------------|-----------------------|--|
| R47 | 0.47 | |
| 0R5 | 0.5 | |
| 1R0 | 1.0 | |
| 101 | 10×10^1 | |
| 102 | 10×10^2 | |
| ... | ... | |



④ 容量误差 CAPACITANCE TOLERANCE

| 代码 (Code) | A | B | C | D | F | G | J | K | M | S | Z |
|-------------------|-------------|-------------|-------------|------------|-----------|-----------|-----------|------|------|--------------|--------------|
| 误差 (Tolerance) | ± 0.05pF | ± 0.10pF | ± 0.25pF | ± 0.5pF | ± 1.0% | ± 2.0% | ± 5.0% | ±10% | ±20% | +50% -20% | +80% -20% |

备注：A、B、C、D级误差适用于容量≤10pF的产品。

Note: These capacitance tolerance A, B, C, D are just applicable the capacitance that equals to or less than 10pF.

⑤ 额定电压 RATED VOLTAGE

单位(unit): V

| 表示方式 (Express Method) | 实际值 (Actual Value) | 注：头两位数字为有效数字，第三位数字为0的个数； R为小数点。 Note: the first two digits are significant; third digit denotes number of zeros; R=decimal point. |
|--------------------------|-----------------------|--|
| 500 | 50×10^0 | |
| 501 | 50×10^1 | |
| ... | ... | |

⑥ 端头材料 TERMINAL MATERIAL STYLES

| 端头类别 (Termination Styles) | 表示方式 (Express Method) |
|-------------------------------------|-----------------------|
| 三层电镀端头 (Nickel Barrier Termination) | N |

⑦ 包装方式 PACKAGE STYLES

| B | T |
|----------------|-----------------------|
| 散包装 (Bulk Bag) | 编带包装 (Taping Package) |

四、温度系数/特性 Temperature Coefficient /Characteristics

| 介质种类 Dielectric | 参考温度点 Reference Temperature Point | 标称温度系数 Temperature Coefficient | 工作温度范围 Operation Temperature Range |
|--------------------|--------------------------------------|-----------------------------------|---------------------------------------|
| C0G | 20°C | 0±30ppm/°C | -55°C ~ 125°C |



五、电容量范围（注：■和■表示可生产的容值）

| | | |
|--------|------|-----|
| 项目 | 0201 | |
| 材料 | COG | |
| 电容量 | | |
| 工作电压 | 25V | 50V |
| 0.1pF | ■ | ■ |
| 0.2pF | ■ | ■ |
| 0.3pF | ■ | ■ |
| 0.4pF | ■ | ■ |
| 0.5pF | ■ | ■ |
| 0.6 pF | ■ | ■ |
| 0.7pF | ■ | ■ |
| 1.0pF | ■ | ■ |
| 1.2pF | ■ | ■ |
| 1.5pF | ■ | ■ |
| 1.8pF | ■ | ■ |
| 2.0pF | ■ | ■ |
| 2.2pF | ■ | ■ |
| 3.3pF | ■ | ■ |
| 3.9pF | ■ | ■ |
| 4.7pF | ■ | ■ |
| 5.6pF | ■ | ■ |
| 6.8pF | ■ | ■ |
| 8.2pF | ■ | ■ |
| 9.0pF | ■ | ■ |
| 10pF | ■ | ■ |
| 12pF | ■ | ■ |
| 15pF | ■ | ■ |
| 18pF | ■ | ■ |
| 20pF | ■ | ■ |
| 22pF | ■ | ■ |



| | | |
|-------|------|-----|
| 项目 | 0402 | |
| 材料 | COG | |
| 电容量 | | |
| 工作电压 | 25V | 50V |
| 0.5pF | | |
| 0.6pF | | |
| 0.7pF | | |
| 0.8pF | | |
| 0.9pF | | |
| 1.0pF | | |
| 1.2pF | | |
| 1.5pF | | |
| 1.8pF | | |
| 2.2pF | | |
| 2.7pF | | |
| 3.3pF | | |
| 3.9pF | | |
| 4.7pF | | |
| 5.6pF | | |
| 6.8pF | | |
| 8.2pF | | |
| 10pF | | |
| 12pF | | |
| 15pF | | |
| 18pF | | |
| 22pF | | |
| 27pF | | |
| 33pF | | |
| 39pF | | |
| 47pF | | |
| 56pF | | |
| 68pF | | |
| 82pF | | |
| 100pF | | |
| 120pF | | |
| 150pF | | |
| 180pF | | |



| | | | | |
|-------|------|-----|------|----------|
| 项目 | 0603 | | | |
| 材料 | COG | | | |
| 电容量 | | | | |
| 工作电压 | 25V | 50V | 100V | 200/250V |
| 0.5pF | | | | |
| 0.6pF | | | | |
| 0.7pF | | | | |
| 0.8pF | | | | |
| 0.9pF | | | | |
| 1.0pF | | | | |
| 1.2pF | | | | |
| 1.5pF | | | | |
| 1.8pF | | | | |
| 2.2pF | | | | |
| 2.7pF | | | | |
| 3.3pF | | | | |
| 3.9pF | | | | |
| 4.7pF | | | | |
| 5.6pF | | | | |
| 6.8pF | | | | |
| 8.2pF | | | | |
| 10pF | | | | |
| 12pF | | | | |
| 15pF | | | | |
| 18pF | | | | |
| 22pF | | | | |
| 27pF | | | | |
| 33pF | | | | |
| 39pF | | | | |
| 47pF | | | | |



| | | | | |
|-------|------|-----|------|----------|
| 项目 | 0603 | | | |
| 材料 | COG | | | |
| 电容量 | | | | |
| 工作电压 | 25V | 50V | 100V | 200/250V |
| 56pF | | | | |
| 68pF | | | | |
| 82pF | | | | |
| 100pF | | | | |
| 120pF | | | | |
| 150pF | | | | |
| 180pF | | | | |
| 220pF | | | | |
| 270pF | | | | |
| 330pF | | | | |
| 390pF | | | | |
| 470pF | | | | |
| 560pF | | | | |
| 680pF | | | | |



| | | | | |
|-------|------|-----|------|----------|
| 项目 | 0805 | | | |
| 材料 | COG | | | |
| 电容量 | | | | |
| 工作电压 | 25V | 50V | 100V | 200/250V |
| 0.5pF | | | | |
| 0.6pF | | | | |
| 0.7pF | | | | |
| 0.8pF | | | | |
| 0.9pF | | | | |
| 1.0pF | | | | |
| 1.2pF | | | | |
| 1.5pF | | | | |
| 1.8pF | | | | |
| 2.2pF | | | | |
| 2.7pF | | | | |
| 3.3pF | | | | |
| 3.9pF | | | | |
| 4.7pF | | | | |
| 5.6pF | | | | |
| 6.8pF | | | | |
| 8.2pF | | | | |
| 10pF | | | | |
| 12pF | | | | |
| 15pF | | | | |
| 18pF | | | | |
| 22pF | | | | |
| 27pF | | | | |
| 33pF | | | | |
| 39pF | | | | |
| 47pF | | | | |



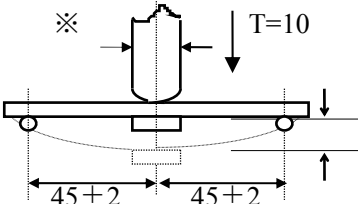
| | | | | |
|--------|------|-----|------|----------|
| 项目 | 0805 | | | |
| 材料 | COG | | | |
| 电容量 | | | | |
| 工作电压 | 25V | 50V | 100V | 200/250V |
| 56pF | | | | |
| 68pF | | | | |
| 82pF | | | | |
| 100pF | | | | |
| 120pF | | | | |
| 150pF | | | | |
| 180pF | | | | |
| 220pF | | | | |
| 270pF | | | | |
| 330pF | | | | |
| 390pF | | | | |
| 470pF | | | | |
| 560pF | | | | |
| 680pF | | | | |
| 820pF | | | | |
| 1000pF | | | | |
| 1200pF | | | | |
| 1500pF | | | | |



六、可靠性测试 Reliability Test

| 项目 Item | 技术规格 Technical Specification | 测试方法 Test Method and Remarks |
|--|---|---|
| 容量 Capacitance | 应符合指定的误差级别 Should be within the specified tolerance. | 测试温度: $25^{\circ}\text{C} \pm 3^{\circ}\text{C}$ Test Temperature: $25^{\circ}\text{C} \pm 3^{\circ}\text{C}$ $C \leq 1000\text{pF}$: 测试频率: $1\text{MHZ} \pm 10\%$ 测试电压: $1.0 \pm 0.2\text{Vrms}$ Test Frequency: $1\text{MHZ} \pm 10\%$ Test Voltage: $1.0 \pm 0.2\text{Vrms}$ $C > 1000\text{pF}$: 测试频率: $1\text{KHZ} \pm 10\%$ 测试电压: $1.0 \pm 0.2\text{Vrms}$ Test Frequency: $1\text{KHZ} \pm 10\%$ Test Voltage: $1.0 \pm 0.2\text{Vrms}$ |
| Q | $C \geq 30\text{pF}$, $Q \geq 1000$ $C \leq 30\text{pF}$, $Q \geq 400+20C$ | 测试频率: $1\text{MHZ} \pm 10\%$ 测试电压: $1.0 \pm 0.2\text{Vrms}$ Test Frequency: $1\text{MHZ} \pm 10\%$ Test Voltage: $1.0 \pm 0.2\text{Vrms}$ |
| 绝缘电阻 (IR) Insulation Resistance | $\geq 10,000\text{M}\Omega$ | 测试电压: 额定电压 测试时间: 60 ± 5 秒 测试湿度: $\leq 75\%$ 测试温度: $25^{\circ}\text{C} \pm 3^{\circ}\text{C}$ 测试充放电电流: $\leq 50\text{mA}$ Measuring Voltage: Rated Voltage Duration: $60 \pm 5\text{s}$ Test Humidity: $\leq 75\%$ Test Temperature: $25^{\circ}\text{C} \pm 3^{\circ}\text{C}$ Test Current: $\leq 50\text{mA}$ |
| 介质耐电强度 (DWV) Dielectric Withstanding Voltage | 不应有介质被击穿或损伤 No breakdown or damage. | 测量电压: 额定电压 $< 100\text{V}$, 300%额定电压 $100\text{V} \leq$ 额定电压 $\leq 500\text{V}$, 250%额定电压 时间: 1~5 秒 充/放电电流: 不应超过 50mA Measuring Voltage: Rated voltage $< 100\text{V}$, 300% Rated voltage $100\text{V} \leq$ Rated voltage $\leq 500\text{V}$, 250% Rated voltage Duration: 1~5s Charge/ Discharge Current: 50mA max. |



| 项目 Item | 技术规格 Technical Specification | | 测试方法 Test Method and Remarks | |
|--|---|--|--|---|
| 可焊性 Solderability | 上锡率应大于 95% 外观: 无可见损伤。 At least 95% of the terminal electrode is covered by new solder. Visual Appearance: No visible damage. | | 将电容在 80~120℃ 的温度下预热 10~30 秒。 Preheating conditions: 80 to 120℃; 10~30s. | |
| | | | 有铅焊料: (Sn/Pb: 63/37) 浸锡温度: 235±5℃ 浸锡时间: 2±0.5s Solder Temperature: 235±5℃ Duration: 2±0.5s | 无铅焊料: 浸锡温度: 245±5℃ 浸锡时间: 2±0.5s Solder Temperature: 245±5℃ Duration: 2±0.5s |
| 耐焊接热 Resistance to Soldering Heat | Δ C/C | 在±0.5%或±0.5pF 范围内, 取较大值 Within ±0.5% or ±0.5pF, whichever is larger | 将电容在 100~200℃ 的温度下预热 10±2 分钟。 浸锡温度: 265±5℃ 浸锡时间: 10±1s 然后取出溶剂清洗干净, 在 10 倍以上的显微镜底下观察。 放置时间: 24±2 小时 放置条件: 室温 Preheating conditions: 100 to 200℃; 10±2min. Solder Temperature: 265±5℃ Duration: 10±1s Clean the capacitor with solvent and examine it with a 10X(min.) microscope. Recovery Time: 24±2h Recovery condition: Room temperature | |
| | Q | 同初始标准 Same to initial value. | | |
| | IR | 同初始标准 Same to initial value. | | |
| | 外观: 无可见损伤 上锡率: ≥95% Appearance: No visible damage. At least 95% of the terminal electrode is covered by new solder. | | | |
| 抗弯曲强度 Resistance to Flexure of Substrate (Bending Strength) | 外观: 无可见损伤。 Appearance: No visible damage. | | 试验基板: Al ₂ O ₃ 或 PCB 弯曲深度: 1mm 施压速度: 0.5mm/sec. 单位: mm 应在弯曲状态下进行测量。 | |
| | Δ C/C | 在±0.5%或±0.5pF 范围内, 取较大值 Within ±0.5% or ±0.5pF, whichever is larger |  Test Board: Al ₂ O ₃ or PCB Warp: 1mm Speed: 0.5mm/sec. Unit: mm The measurement should be made with the board in the bending position. | |



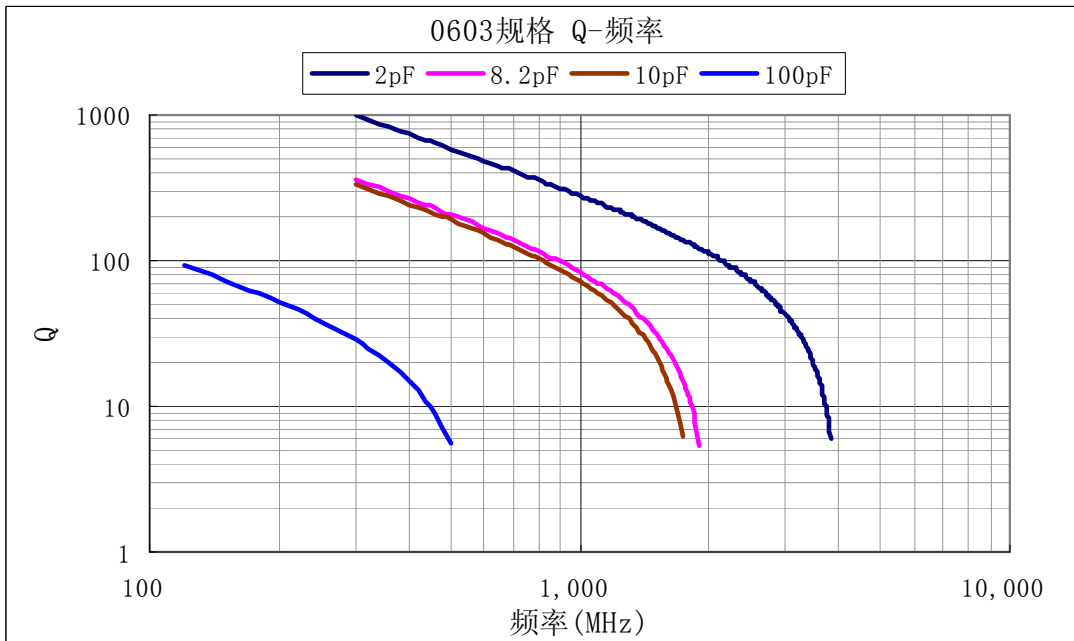
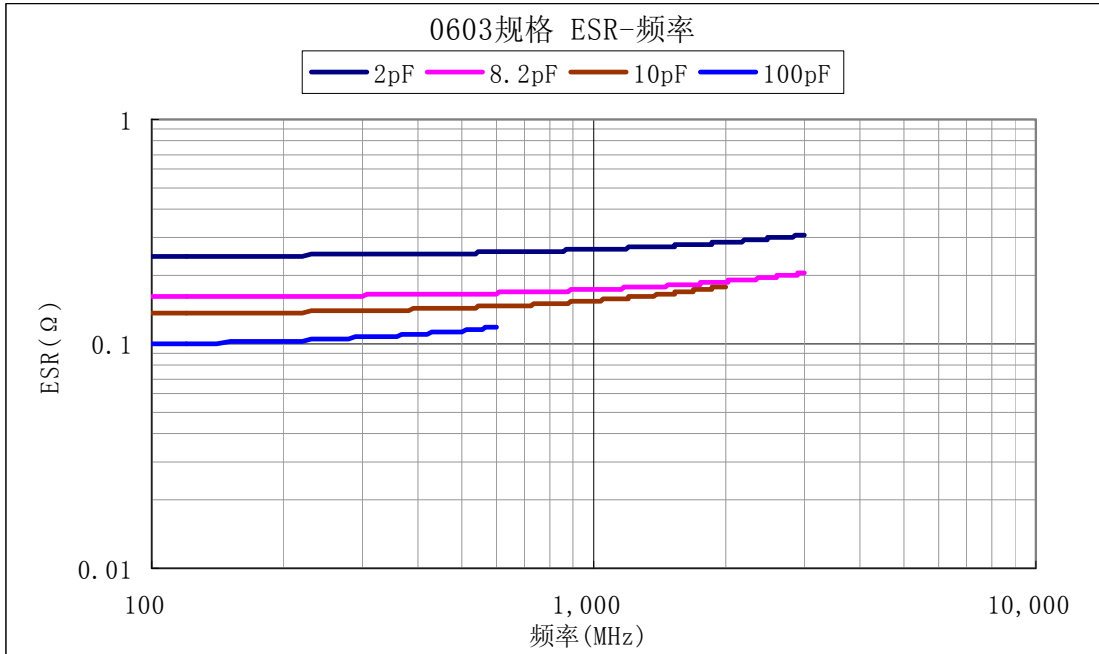
| 项目 Item | 技术规格 Technical Specification | | 测试方法 Test Method and Remarks | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------------|---|--|---|--------|--------|--------|-----|------|----|-----|---------|-----|-----|------|----|-----|---------|-----|------|------------------|-------------|---|---------------------|----|---|--------------------|-----|---|--------------------|----|---|--------------------|-----|
| 端头结合强度 Termination Adhesion | 外观无可见损伤 No visible damage. | | 施加的力: 5N 时间: 10±1S Applied Force: 5N Duration: 10±1S | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 温度循环 Temperature Cycle | Δ C/C | 在±1%或±1pF范围内, 取两者中最大者 Δ C/C: Within ±1% or ±1pF, whichever is larger. | 初始测量 循环次数: 5次, 一个循环分以下4步: <table border="1" style="margin-left: 20px;"> <thead> <tr> <th>阶段</th> <th>温度(°C)</th> <th>时间(分钟)</th> </tr> </thead> <tbody> <tr> <td>第1步</td> <td>下限温度</td> <td>30</td> </tr> <tr> <td>第2步</td> <td>常温(+20)</td> <td>2~3</td> </tr> <tr> <td>第3步</td> <td>上限温度</td> <td>30</td> </tr> <tr> <td>第4步</td> <td>常温(+20)</td> <td>2~3</td> </tr> </tbody> </table> 试验后放置(恢复)时间: 24±2h Preheating conditions: up-category temperature, 1h Recovery time: 24±1h Initial Measurement Cycling Times: 5 times, 1 cycle, 4 steps: <table border="1" style="margin-left: 20px;"> <thead> <tr> <th>Step</th> <th>Temperature (°C)</th> <th>Time (min.)</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Low- category temp.</td> <td>30</td> </tr> <tr> <td>2</td> <td>Normal temp. (+20)</td> <td>2~3</td> </tr> <tr> <td>3</td> <td>Up- category temp.</td> <td>30</td> </tr> <tr> <td>4</td> <td>Normal temp. (+20)</td> <td>2~3</td> </tr> </tbody> </table> Recovery time after test: 24±2h | 阶段 | 温度(°C) | 时间(分钟) | 第1步 | 下限温度 | 30 | 第2步 | 常温(+20) | 2~3 | 第3步 | 上限温度 | 30 | 第4步 | 常温(+20) | 2~3 | Step | Temperature (°C) | Time (min.) | 1 | Low- category temp. | 30 | 2 | Normal temp. (+20) | 2~3 | 3 | Up- category temp. | 30 | 4 | Normal temp. (+20) | 2~3 |
| | 阶段 | 温度(°C) | | 时间(分钟) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 第1步 | 下限温度 | | 30 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 第2步 | 常温(+20) | | 2~3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 第3步 | 上限温度 | 30 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 第4步 | 常温(+20) | 2~3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Step | Temperature (°C) | Time (min.) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | Low- category temp. | 30 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | Normal temp. (+20) | 2~3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | Up- category temp. | 30 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | Normal temp. (+20) | 2~3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Q | 同初始标准 Same to initial value. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| IR | 同初始标准 Same to initial value. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| DWV | 同初始标准 Same to initial value. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 潮湿试验 Moisture Resistance | Δ C/C | 在±2%或±1pF范围内, 取两者中最大者 Within ±2% or ±1pF, whichever is larger. | 温度: 40±2°C 湿度: 90~95%RH 时间: 500小时 放置条件: 室温 放置时间: 48小时 Temperature: 40±2°C Humidity: 90~95%RH Duration: 500h Recovery conditions: Room temperature Recovery Time: 48h | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Q | C≥30pF, Q≥350 10pF≤C≤30pF, Q≥275+5C/2 C≥10pF, Q≥200+10C | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | IR | Ri≥2500MΩ 或 Ri·CR≥25S 取两者之中较小者。 Ri≥2500MΩ 或 Ri·CR≥25S whichever is smaller. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 外观: 无损伤 Appearance: No visible damage. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

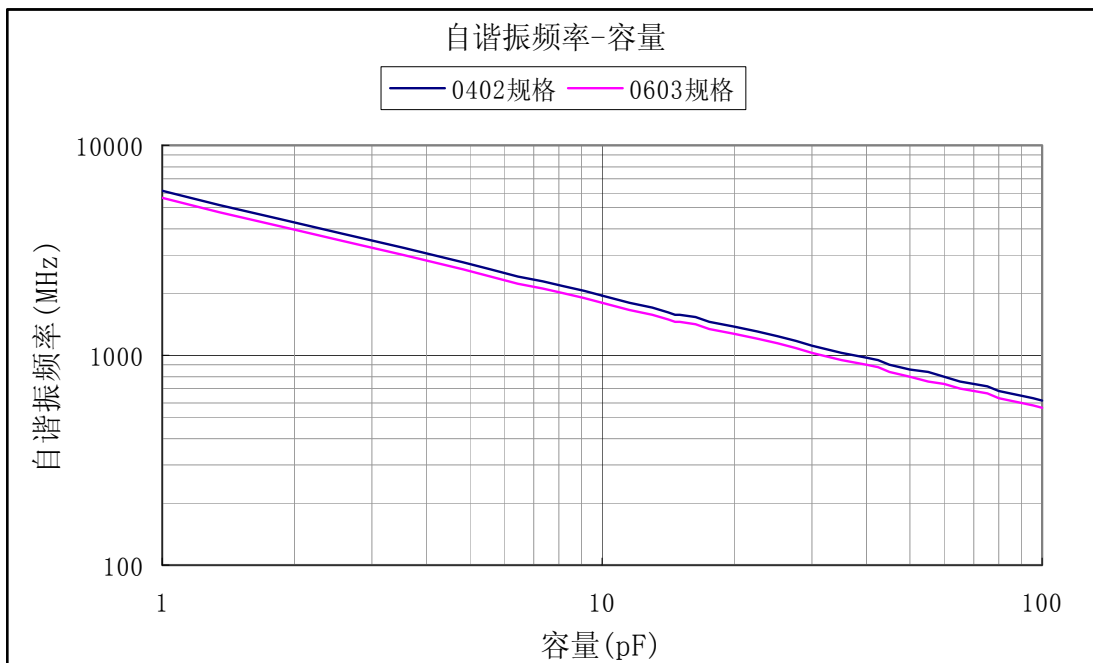
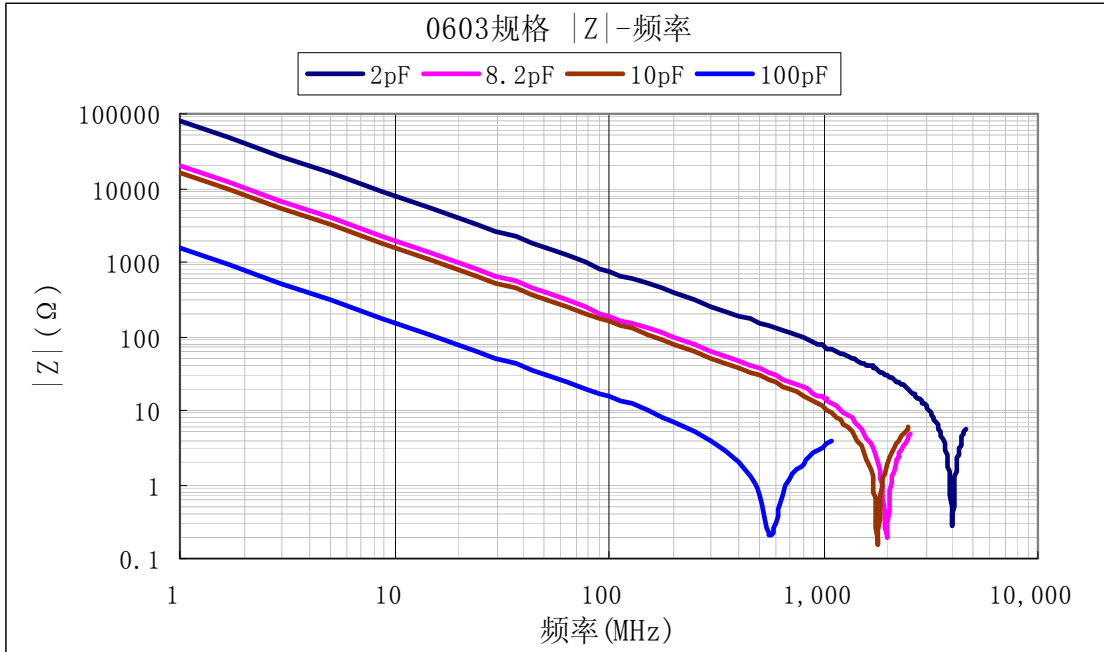


| 项目 Item | 技术规格 Technical Specification | | 测试方法 Test Method and Remarks |
|---|--|--|---|
| 寿命试验 Life Test | Δ C/C | 在 $\pm 2\%$ 或 $\pm 1\text{pF}$ 范围内, 取两者中最大者 Within $\pm 2\%$ or $\pm 1\text{pF}$, whichever is larger. | 低压产品 ($<100\text{V}$) 电压: 1.5 倍额定工作电压 时间: 1000 小时 温度: 125°C |
| | Q | $C \geq 30\text{pF}$, $Q \geq 350$ $10\text{pF} \leq C \leq 30\text{pF}$, $Q \geq 275+5C/2$ $C \geq 10\text{pF}$, $Q \geq 200+10C$ | 充电电流: 不应超过 50mA 放置条件: 室温 放置时间: 24 小时 |
| | IR | $R_i \geq 4000\text{M}\Omega$ 或 $R_i \cdot C_R \geq 40\text{S}$ 取两者之中较小者. $R_i \geq 4000\text{M}\Omega$ 或 $R_i \cdot C_R \geq 40\text{S}$ whichever is smaller. | Low-Voltage ($<100\text{V}$) Applied Voltage: $1.5 \times \text{Rated Voltage}$ Duration: 1000h Temperature: 125°C Charge/ Discharge Current: 50mA max. |
| | 外观: 无损伤 Visual Appearance: No visible damage. | | Recovery Conditions: Room Temperature Recovery Time: 24h |
| 中高压产品 寿命试验 Middle & high voltage Life Test | Δ C/C | 在 $\pm 2\%$ 或 $\pm 1\text{pF}$ 范围内, 取两者中最大者 Within $\pm 2\%$ or $\pm 1\text{pF}$, whichever is larger. | 中高压产品: $100\text{V} \leq \text{额定电压} < 500\text{V}$: 2 倍工作电压 $500\text{V} \leq \text{额定电压} \leq 1000\text{V}$: 1.5 倍工作电压 额定电压 $> 1000\text{V}$: 1.2 倍工作电压 |
| | Q | $C \geq 30\text{pF}$, $Q \geq 350$ $10\text{pF} \leq C \leq 30\text{pF}$, $Q \geq 275+5C/2$ $C \geq 10\text{pF}$, $Q \geq 200+10C$ | 时间: 1000 小时 充电电流: 不应超过 50mA 温度: 125°C |
| | IR | $R_i \geq 4000\text{M}\Omega$ 或 $R_i \cdot C_R \geq 40\text{S}$ 取两者之中较小者. $R_i \geq 4000\text{M}\Omega$ 或 $R_i \cdot C_R \geq 40\text{S}$ whichever is smaller. | 放置条件: 室温 放置时间: 24 小时 Applied Voltage: $100\text{V} \leq \text{Rated Voltage} < 500\text{V}$: 2 Multiple $500\text{V} \leq \text{Rated Voltage} \leq 1000\text{V}$: 1.5 Multiple $> 1000\text{V}$ Rated Voltage: 1.2 Multiple |
| | 外观: 无损伤 Visual Appearance: No visible damage. | | Duration: 1000h Charge/ Discharge Current: 50mA max. Temperature: 125°C Recovery Conditions: Room Temperature Recovery Time: 24h |



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[CDR33BX683AKUS](#) [CGA2B2C0G1H010C](#) [CGA2B2C0G1H040C](#) [CGA2B2C0G1H050C](#) [CGA2B2C0G1H060D](#) [CGA2B2C0G1H070D](#)
[CGA2B2C0G1H120J](#) [CGA2B2C0G1H151J](#) [CGA2B2C0G1H181JT0Y0F](#) [CGA2B2C0G1H1R5C](#) [CGA2B2C0G1H2R2C](#)
[CGA2B2C0G1H390J](#) [CGA2B2C0G1H391J](#) [CGA2B2C0G1H3R3C](#) [CGA2B2C0G1H680J](#) [CGA2B2C0G1H6R8D](#)