

多層片式陶瓷電容器

MULTILAYER CHIP CERAMIC CAPACITOR

安全規格認證GF型多層陶瓷電容器

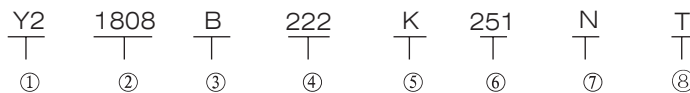
● 特性

- * 新型獨石結構，體積小，電容量高，能在高壓下工作；
- * GF型可用作Y2級電容器；
- * 可用于符合IEC/EN60950及UL1950標準的機器。而且，GA352/355可用于符合IEC/EN60065、UL1492及UL6500標準的機器；
- * 保證承受+125℃；
- * 僅用于回流焊接；
- * 提供低型（厚度：最大1.5mm）。他們實用于薄型設備。

● 應用範圍

- * 最適合于無變壓器的DAA調制解調器綫路濾波器及耦合用；
- * 最適合信息設備綫路濾波器用；
- * 最適合作與各種切換式電源的Y電容器或X電容器。（僅限于GA352/353型）。

● 產品規格型號表示方法



| ①代號 |
|-------|
| 安規電容器 |

| ②尺寸 | | |
|------|-------------|-------------|
| 型號 | 英制(英寸) | 公制(毫米) |
| 1808 | 0.18 × 0.08 | 4.50 × 2.00 |
| 1812 | 0.18 × 0.12 | 4.50 × 3.20 |
| 2220 | 0.22 × 0.20 | 5.70 × 5.00 |
| 2225 | 0.22 × 0.25 | 5.70 × 6.30 |

| ③介質種類 | |
|-------|---------|
| 代碼 | 介質材料 |
| CG | COG或NPO |
| B | X7R |

| ④標稱電容量(PF) | |
|------------|------------------|
| 表示方式 | 實際值 |
| 102 | 10×10^2 |
| 222 | 22×10^2 |

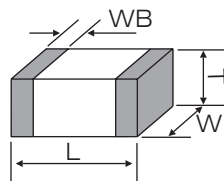
| ⑤誤差級別 | |
|-------|-------|
| 代碼 | 誤差 |
| J | ± 5% |
| K | ± 10% |
| M | ± 20% |

| ⑥特定交流工作電壓 | |
|-----------|--------|
| 251 | 交流250V |

| ⑦端頭類別 | |
|-------|------------------------|
| 表示方法 | 端頭材料 |
| S | 純銀端頭 |
| C | 純銅端頭 |
| N | 三層電鍍端頭 (銀或銅層/鎳層/錫層) |

| ⑧包裝方式 | |
|-------|--------|
| 表示方法 | 包裝 |
| 無標記 | 袋裝散包裝 |
| T | 編帶包裝 |
| B | 塑料盒散包裝 |

● 外形尺寸



| 規格型號 | 尺寸(mm) | | | |
|------|-------------|-------------|-------|-------------|
| | L | W | T | WB |
| 1808 | 4.50 ± 0.40 | 2.00 ± 0.20 | ≤ 2.5 | 0.75 ± 0.25 |
| 1812 | 4.50 ± 0.40 | 3.20 ± 0.30 | ≤ 3.5 | 0.80 ± 0.30 |
| 2220 | 5.70 ± 0.40 | 5.00 ± 0.40 | ≤ 3.5 | 1.00 ± 0.40 |
| 2225 | 5.70 ± 0.50 | 6.30 ± 0.50 | ≤ 3.5 | 1.00 ± 0.40 |

■ Type MLCC

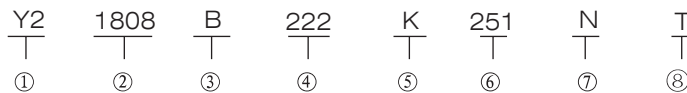
● Features

- * A new monolithic structure capacitor for small, high-capacitance capability of operating at high-voltage levels;
- * The type GF can used as a Y2-class capacitor;
- * Available for equipment based on IEC/IN60950 and UL1950. besides, the GA352/355 types are available for equipment based on IEC/EN60065, UL1492. and UL6500;
- * +125degree C guaranteed;
- * Only for reflow soldering;
- * The low-profile type(thickness: 1.5mm max) is available. Fit for use on thinner type equipment.

● Application

- * Ideal for use on line filters and couplings for DAA modems without transformers;
- * Ideal for use on line filters for information equipment;
- * Ideal for use as Y capacitor for various switching power supplies (GA352/353 types only)。

● Product Part Number Expression



| ①Code | |
|--------------|--|
| Y2 Capacitor | |

| ②Dimensions | | |
|-------------|----------------|-------------|
| Type | British (Inch) | Metric (mm) |
| 1808 | 0.18 × 0.08 | 4.50 × 2.00 |
| 1812 | 0.18 × 0.12 | 4.50 × 3.20 |
| 2220 | 0.22 × 0.20 | 5.70 × 5.00 |
| 2225 | 0.22 × 0.25 | 5.70 × 5.00 |

| ⑥Rated Voltage | |
|-------------------|-----------------|
| Expression Method | Actual Value |
| 251 | AC 250 voltages |

| ③Dielectric Type | |
|------------------|---------------------|
| Code | Dielectric Material |
| CG | COG or NPO |
| B | X7R |

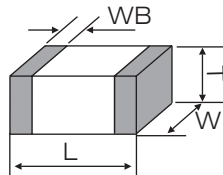
| ④Normal Capacitance | |
|---------------------|------------------|
| Expression Method | Actual Value |
| 102 | 10×10^2 |
| 222 | 22×10^2 |

| ⑤Capacitance Tolerance(PF) | |
|----------------------------|-----------|
| Code | Tolerance |
| J | ± 5% |
| K | ± 10% |
| M | ± 20% |

| ⑦Termination Type | |
|-------------------|---|
| Expression Method | Termination Material |
| S | Pure Silver |
| C | Pure Copper |
| N | Three Layers Plating Terminal (Silver or Copper layer/ Nickel layer /Tin layer) |

| ⑧Package Method | |
|-------------------|----------------------------|
| Expression Method | Packaging |
| NOMARKS | Bulk Bag Packaging |
| T | Taping Packaging |
| B | Bulk Plastic Box Packaging |

● Outside Dimension



| 规格型号 | 尺寸(mm) | | | |
|------|-----------------|-----------------|------------|-----------------|
| | L | W | T | WB |
| 1808 | 4.50 ± 0.40 | 2.00 ± 0.20 | ≤ 2.5 | 0.75 ± 0.25 |
| 1812 | 4.50 ± 0.40 | 3.20 ± 0.30 | ≤ 3.5 | 0.80 ± 0.30 |
| 2220 | 5.70 ± 0.40 | 5.00 ± 0.40 | ≤ 3.5 | 1.00 ± 0.40 |
| 2225 | 5.70 ± 0.50 | 6.30 ± 0.50 | ≤ 3.5 | 1.00 ± 0.40 |

● 電容量範圍

| 項目 | 安規電容器 | | | | | | | | 電容量 |
|-------|-------|------|------|------|------|------|------|------|-------|
| | COG | | | | X7R | | | | |
| 尺寸 | | | | | | | | | |
| 工作電壓 | 1808 | 1812 | 2220 | 2225 | 1808 | 1812 | 2220 | 2225 | |
| 電容量 | | | | | | | | | 電容量 |
| 2PF | | | | | | | | | 2PF |
| 10PF | | | | | | | | | 10PF |
| 22PF | | | | | | | | | 22PF |
| 33PF | | | | | | | | | 33PF |
| 47PF | | | | | | | | | 47PF |
| 56PF | | | | | | | | | 56PF |
| 68PF | | | | | | | | | 68PF |
| 82PF | | | | | | | | | 82PF |
| 100pF | | | | | | | | | 100pF |
| 150pF | | | | | | | | | 150pF |
| 220pF | | | | | | | | | 220pF |
| 330pF | | | | | | | | | 330pF |
| 470pF | | | | | | | | | 470pF |
| 680pF | | | | | | | | | 680pF |
| 1.0nF | | | | | | | | | 1.0nF |
| 2.2nF | | | | | | | | | 2.2nF |
| 3.3nF | | | | | | | | | 3.3nF |
| 4.7nF | | | | | | | | | 4.7nF |
| 6.8nF | | | | | | | | | 6.8nF |
| 10nF | | | | | | | | | 10nF |
| 22nF | | | | | | | | | 22nF |

• Capacitance Range

| Item | Safety Standard Recognized Type GF MLCC | | | | | | | | |
|----------------|---|------|------|------|------|------|------|------|-------------|
| Size | COG | | | | X7R | | | | |
| Rated Volatage | 1808 | 1812 | 2220 | 2225 | 1808 | 1812 | 2220 | 2225 | |
| Capacitance | | | | | | | | | Capacitance |
| 2PF | | | | | | | | | 2PF |
| 10PF | | | | | | | | | 10PF |
| 22PF | | | | | | | | | 22PF |
| 33PF | | | | | | | | | 33PF |
| 47PF | | | | | | | | | 47PF |
| 56PF | | | | | | | | | 56PF |
| 68PF | | | | | | | | | 68PF |
| 82PF | | | | | | | | | 82PF |
| 100pF | | | | | | | | | 100pF |
| 150pF | | | | | | | | | 150pF |
| 220pF | | | | | | | | | 220pF |
| 330pF | | | | | | | | | 330pF |
| 470pF | | | | | | | | | 470pF |
| 680pF | | | | | | | | | 680pF |
| 1.0nF | | | | | | | | | 1.0nF |
| 2.2nF | | | | | | | | | 2.2nF |
| 3.3nF | | | | | | | | | 3.3nF |
| 4.7nF | | | | | | | | | 4.7nF |
| 6.8nF | | | | | | | | | 6.8nF |
| 10nF | | | | | | | | | 10nF |
| 22nF | | | | | | | | | 22nF |