

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

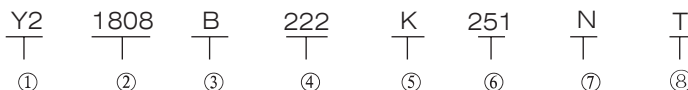
● 特性

- * 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

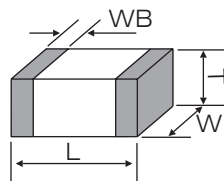
⑤誤差級別	
代碼	誤差
J	± 5%
K	± 10%
M	± 20%

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

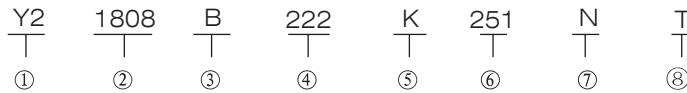
● Features

- * A new monolithic structure capacitor for small, high-capacitance capability of operating at high-voltage levels;
- * The type GF can be 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;
- * +125 degree 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



① Code	
Y2 Capacitor	

② Dimensions		
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

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

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

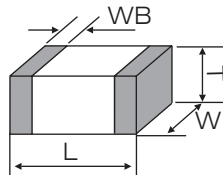
⑤ Capacitance Tolerance (PF)	
Code	Tolerance
J	± 5%
K	± 10%
M	± 20%

⑥ Rated Voltage	
Expression Method	Actual Value
251	AC 250 voltages

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

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

● Outside Dimension



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

● 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