

# Safety Standard Certified Ceramic Capacitors-CE Series (Class Y2) Data Sheet





## Feature



- Wide operating voltage range from 100pF to 10000pF
- Operating Temperature: -40°C ~ 125°C
- Storage Temperature: 15°C ~ 35°C
- Fix capacitors Y2 for electromagnetic interference suppression and connection to the supply mains has high dielectric coefficient ceramic dielectric and flame retardant epoxy resin package

## Applications

- Can be used for power supply noise suppression circuit in cross connection and bypass. It is a primary and secondary coupling X/Y capacitor used as AC line filter and switching power supply and AC converter

## Applicable Standard

| Approval      |   | Organization | Safety Standards  | Certificate No. |
|---------------|---|--------------|-------------------|-----------------|
| USA<br>Canada |  | UL<br>CUL    | UL60384           | E208107         |
| Korea         |  | KTL          | K60384-14         | SU03031-7001    |
| China         |  | CQC          | GB/T 6346.14-2015 | CQC07001019906  |
| Germany       |  | VDE          | En 60384-14       | 40025748        |

| Approval |   | Organization | Safety Standards | Certificate No. |
|----------|---|--------------|------------------|-----------------|
| EU       |  | ENEC         | En 60384-14      | 40025748        |
| IEC      |  | IEC-CB       | IEC 60384-14     | US-21745-UL     |

### Part Number Code

|   |    |   |   |   |     |   |    |   |   |   |   |   |   |
|---|----|---|---|---|-----|---|----|---|---|---|---|---|---|
| G | 08 | F | 1 | E | 222 | M | N0 | B | 0 | S | 0 | N | 0 |
|---|----|---|---|---|-----|---|----|---|---|---|---|---|---|

**Rated Voltage**  
G:Y2

**Core Diameter**  
08:8mm  
14:14mm

**Temperature Characteristic**  
B:Y5P  
E:Y5U  
F:Y5V

**Pitch**  
E:7.5mm  
D:10.0mm

**Tolerance**  
K:±10%  
M:±20%

**Nominal capacitance**  
101:100pF  
222:2200pF  
103:10000pF

**Foot Type**  
1:Long straight  
2:Outside Crimped  
3:Short Straight  
8:Vertical Crimped

**Package**  
B: Bulk  
T: Tape

**Inner Management**

**Environmental Standard**  
0:RoHS  
2:RoHS+Halogen-Free

**Lead Length**  
S0~S9:1.0~1.9mm  
X0~X9:2.0~2.9mm  
A0~A9:3.0~3.9mm  
B0~B9:4.0~4.9mm  
C0~C9:5.0~5.9mm  
D0~D9:6.0~6.9mm  
E0~E9:7.0~7.9mm

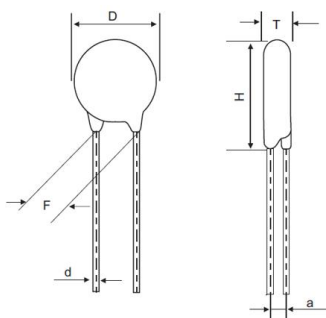
**Lead Length**  
F0~F9:8.0~8.9mm  
G0~G9:9.0~9.9mm  
H0~H9:10.0~10.9mm  
J0~J9:11.0~11.9mm  
K0~K9:12.0~12.9mm  
L0~L9:13.0~13.9mm  
M0~M9:14.0~14.9mm

**Lead Length**  
M0~M9:14.0~14.9mm  
N0:16~27.0mm(Bulk)  
**Crimped Lead Taped**  
N0:H0=16.5mm  
P0:H0=17.0mm  
Q0:H0=19.0mm  
**Straight Lead**  
Q0:20.0mm

## Specifications

|  |                 |
|--|-----------------|
| Capacitance and Dissipation factor testing condition | 25°C、1KHz、1Vrms |
| Dissipation Factor(tanδ)                             | ≤2.5%           |
| Rated Voltage  | 250VAC          |
| Withstand Voltage                                    | 2500VAC         |
| Insulation Resistance (I.R.)                         | IR≥10000MΩ      |
| Temperature Characteristic                           | Y5P、Y5U、Y5V     |

## Dimensions (mm) and Approval



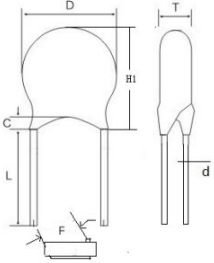
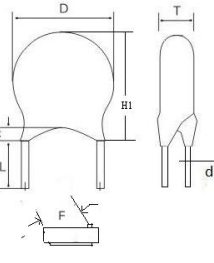
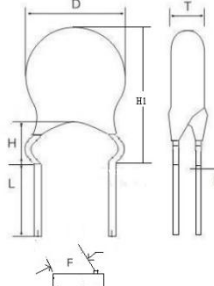
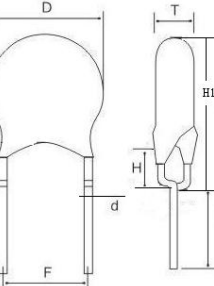
| Part No.    | Size (mm) |        |            |        | Approval |     |              |     |      |
|-------------|-----------|--------|------------|--------|----------|-----|--------------|-----|------|
|             | D Max.    | T Max. | F±0.8      | d±0.05 | CQC      | VDE | cUL (Canada) | KTL | ENEC |
| Y2-Y5P-101K | 7.0       | 4.0    | 7.5        | 0.6    | √        | √   | √            | √   | √    |
| Y2-Y5P-151K | 7.0       | 4.0    | 7.5        | 0.6    | √        | √   | √            | √   | √    |
| Y2-Y5P-221K | 7.0       | 4.0    | 7.5        | 0.6    | √        | √   | √            | √   | √    |
| Y2-Y5P-331K | 7.0       | 4.0    | 7.5        | 0.6    | √        | √   | √            | √   | √    |
| Y2-Y5P-471K | 7.0       | 4.0    | 7.5        | 0.6    | √        | √   | √            | √   | √    |
| Y2-Y5P-681K | 8.5       | 4.0    | 7.5        | 0.6    | √        |     | √            | √   |      |
| Y2-Y5U-681M | 7.0       | 4.0    | 7.5        | 0.6    | √        |     | √            | √   |      |
| Y2-Y5U-102M | 7.0       | 4.0    | 7.5        | 0.6    | √        | √   | √            | √   | √    |
| Y2-Y5U-152M | 9.0       | 4.0    | 7.5        | 0.6    | √        | √   | √            | √   | √    |
| Y2-Y5U-222M | 10.0      | 4.0    | 7.5        | 0.6    | √        | √   | √            | √   | √    |
| Y2-Y5U-332M | 12.0      | 4.0    | 7.5        | 0.6    | √        | √   | √            | √   | √    |
| Y2-Y5U-472M | 14.0      | 4.5    | 7.5   10.0 | 0.65   | √        | √   | √            | √   | √    |
| Y2-Y5U-103M | 18.0      | 4.5    | 7.5   10.0 | 0.65   | √        | √   | √            | √   | √    |
| Y2-Y5V-152M | 7.0       | 4.0    | 7.5        | 0.6    | √        | √   | √            | √   | √    |
| Y2-Y5V-222M | 8.0       | 4.0    | 7.5        | 0.6    | √        | √   | √            | √   | √    |



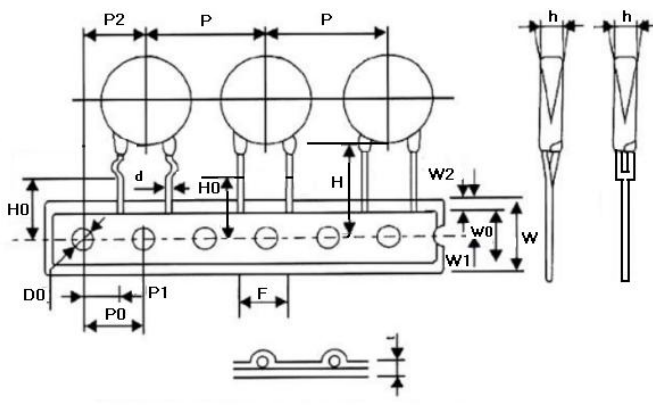
## Safety Standard Certified Ceramic Capacitors-CE Series (Class Y2)

| Part No.    | Size (mm) |        |       |      | Approval |     |     |                 |     |      |
|-------------|-----------|--------|-------|------|----------|-----|-----|-----------------|-----|------|
|             | D Max.    | T Max. | F±0.8 |      | d±0.05   | CQC | VDE | cUL<br>(Canada) | KTL | ENEC |
| Y2-Y5V-332M | 9.0       | 4.0    | 7.5   |      | 0.6      | √   | √   | √               | √   | √    |
| Y2-Y5V-472M | 10.0      | 4.0    | 7.5   |      | 0.6      | √   | √   | √               | √   | √    |
| Y2-Y5V-103M | 14.0      | 4.5    | 7.5   | 10.0 | 0.65     | √   | √   | √               | √   | √    |

## Lead Configuration

| Lead Style       | Drawing   | Lead Length L (mm)                                 | Coating Lead Length C (mm)   | Height H (mm) |
|------------------|---|--|--|---------------|
| Long Straight    |    | 16.0 min   | ① C ≤ 2.5mm<br>(Product diameter < 12mm)<br><br>② C ≤ 3.0mm<br>(Product diameter ≥ 12mm) | /             |
| Short Straight   |    | ① [2.5 ≤ L < 6.0] ± 0.5;<br>② [6.0 ≤ L ≤ 10] ± 1.0 | ① C ≤ 2.5mm<br>(Product diameter < 12mm)<br><br>② C ≤ 3.0mm<br>(Product diameter ≥ 12mm) | /             |
| Outside Crimped  |   | ① [2.5 ≤ L < 6.0] ± 0.5;<br>② [6.0 ≤ L ≤ 10] ± 1.0 | Not exceed the bend point  | 5.0mm Max     |
| Vertical Crimped |  | ① [2.5 ≤ L < 6.0] ± 0.5;<br>② [6.0 ≤ L ≤ 10] ± 1.0 | Not exceed the bend point  | 4.0mm Max     |

### Taping And Dimensions (mm)

| Figure   | Symbol | P=7.5                    |              | P=10.0                   |               |              |
|--|--------|--------------------------|--------------|--------------------------|---------------|--------------|
|  | Po     | 12.7±0.3                 |              | 12.7±0.3                 |               |              |
|  | P      | 25.4±1.0                 |              | 25.4±1.0                 |               |              |
|  | P1     | 8.95±0.7                 |              | 7.7±0.7                  |               |              |
|  | P2     | 12.7±1.3                 |              | 12.7±1.3                 |               |              |
|  | F      | 7.5±0.8                  |              | 10.0±0.8                 |               |              |
|  | Δh     | 0±2.0                    |              | 0±2.0                    |               |              |
|  | W      | 18.0 +1.5/-1.0           |              | 18.0 +1.5/-1.0           |               |              |
|  | Wo     | 10.5 Max                 |              | 10.5 Max                 |               |              |
|  | W1     | 9.0+0.75/-0.5            |              | 9.0+0.75/-0.5            |               |              |
|  | W2     | 3.0 Max                  |              | 3.0 Max                  |               |              |
|  | Do     | 4.0±0.2                  |              | 4.0±0.2                  |               |              |
|  | H      | 20+1.5/-1.0              |              | 20+1.5/-1.0              |               |              |
|  | Ho     | 16.5&17.0&19.0 +1.5/-1.0 |              | 16.5&17.0&19.0 +1.5/-1.0 |               |              |
|  | L      | Straight Lead            | Crimped Lead |                          | Straight Lead | Crimped Lead |
|  |        | 11.0 Max                 | 9.0 Max      |                          | 11.0 Max      | 9.0 Max      |
|  | t1     | 0.5±0.2                  |              | 0.5±0.2                  |               |              |
|  | t2     | 1.7 Max                  |              | 1.7 Max                  |               |              |

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