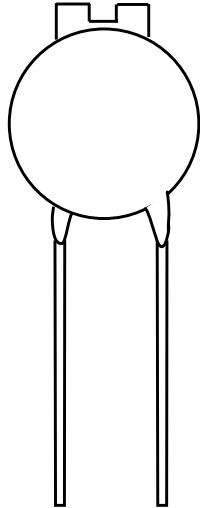


## Ceramic Disc Capacitors (Straight Leads) Gap-Kap 1 kV to 3 kV



Simplified Outline

### FEATURES

- High reliability
- Straight leads
- Lead (Pb)-free available

### APPLICATIONS

- Monitors
- Color TV

### DESIGN

The capacitors consist of a ceramic disc both sides of which are silver-plated. Connection leads are made of tinned copper having a diameter of 0.8 mm.

The capacitors are supplied with straight leads and lead spacings from 5.0 mm to 10.0 mm. Encapsulation is phenolic resin coated, flammable resistant in accordance with "UL94V-0".

### INTRODUCTION

BCcomponents Gap-Kap capacitors provide a safe reliable discharge path for stray transient overvoltages and static voltage build-up. Combination of capacitor-spark-gap construction allows the circuit designer to specify lower voltage components and consequently lower cost, with assurance that overvoltage conditions will be prevented.

The Gap-Kap capacitor is ideally suited for many industrial commercial equipment applications. A typical application in color TV monitors utilizes a minimum capacitance Gap-Kap which is inserted between the grid lead and chassis ground. This protects the components of control circuitry by providing a low impedance path to ground for transient voltages of 1500 volts and above.

### CAPACITANCE RANGE:

At 1 kHz, 1 ± 0.2 V (RMS); 0.75 to 22 000 pF

### RATED DC VOLTAGE:

1 kV; 1.5 kV; 3 kV

### INSULATION RESISTANCE AT 500 V (DC):

≥ 10 000 MΩ min.

### TOLERANCE ON CAPACITANCE:

± 10 %; ± 20 %

### DISSIPATION FACTOR:

At 1 kHz, 1 ± 0.2 V (RMS); 2.5 % max



**RoHS**  
COMPLIANT

### TEMPERATURE COEFFICIENTS:

EIA code Z5P or Z5U

### SECTIONAL SPECIFICATIONS:

Class 2 IEC 60 384-9,

EIA 198

### OPERATING TEMPERATURE RANGE:

- 30 to + 85 °C

### MARKING

Marking indicates capacitance value and tolerance in accordance with "EIA 198" and voltage marks.

The capacitors meet the essential requirements of IEC 60 384-9 and EIA 198. Unless stated otherwise all electrical values apply at an ambient temperature of 25 ± 3 °C, at normal atmospheric conditions.



| ORDERING INFORMATION |             |                                |                            |                          |                          |                           |  |
|----------------------|-------------|--------------------------------|----------------------------|--------------------------|--------------------------|---------------------------|--|
| C<br>(pF)            | TOL.<br>(%) | VOLTAGE                        |                            | D <sub>max</sub><br>(mm) | T <sub>max</sub><br>(mm) | LEAD SPACING<br>S<br>(mm) | CLEAR TEXT CODE<br>16 <sup>th</sup> DIGIT:<br>R = RoHS COMPLIANT |
|                      |             | WORKING<br>(kV <sub>DC</sub> ) | ARC<br>(kV <sub>DC</sub> ) |                          |                          |                           |  |
| 0.75                 | max         | 1.0                            | 1.0 - 2.0                  | 11.0                     | 5.0                      | 5.0                       | S758X43000183L5.   |
|                      |             |                                |                            |                          |                          | 6.4                       | S758X43000183L6.   |
| 1000                 | ± 20        | 1.5                            | 2.0 - 3.0                  | 11.0                     | 4.5                      | 5.0                       | S102M43Z5P283L5.   |
|                      |             |                                |                            |                          |                          | 6.4                       | S102M43Z5P283L6.   |
| 4700                 | ± 20        | 3.0                            | 4.0 - 6.0                  | 24.5                     | 6.0                      | 10.0                      | S472M96Z5P483L0.   |
| 10 000               | ± 20        | 1.5                            | 2.0 - 3.0                  | 17.5                     | 5.0                      | 10.0                      | S103M69Z5U283L0.   |
| 22 000               | ± 20        | 1.5                            | 2.0 - 3.0                  | 24.5                     | 4.5                      | 10.0                      | S223M96Z5U283L0.   |

| PACKAGING                       |           |                 |               |      |                               |
|---------------------------------|-----------|-----------------|---------------|------|-------------------------------|
| PACKAGING TYPE                  | SIZE CODE | LEAD SPACE (mm) | VOLTAGE (VDC) | SPQ  | BOX DIMENSIONS L × W × H (mm) |
| Bulk<br>(long lead L ≥ 25.4 mm) | 20 to 47  | all             | all           | 1000 | 245 x 120 x 65                |
|                                 |           |                 |               | 1000 |                               |
|                                 | 1000      |                 |               |      |                               |
|                                 | 500       |                 |               |      |                               |
|                                 | 250       |                 |               |      |                               |
|                                 | 53 to 75  |                 |               |      |                               |
|                                 | 84 to 96  |                 |               |      |                               |

**Note**

The capacitors are supplied in bulk packaging (cardboard boxes).



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