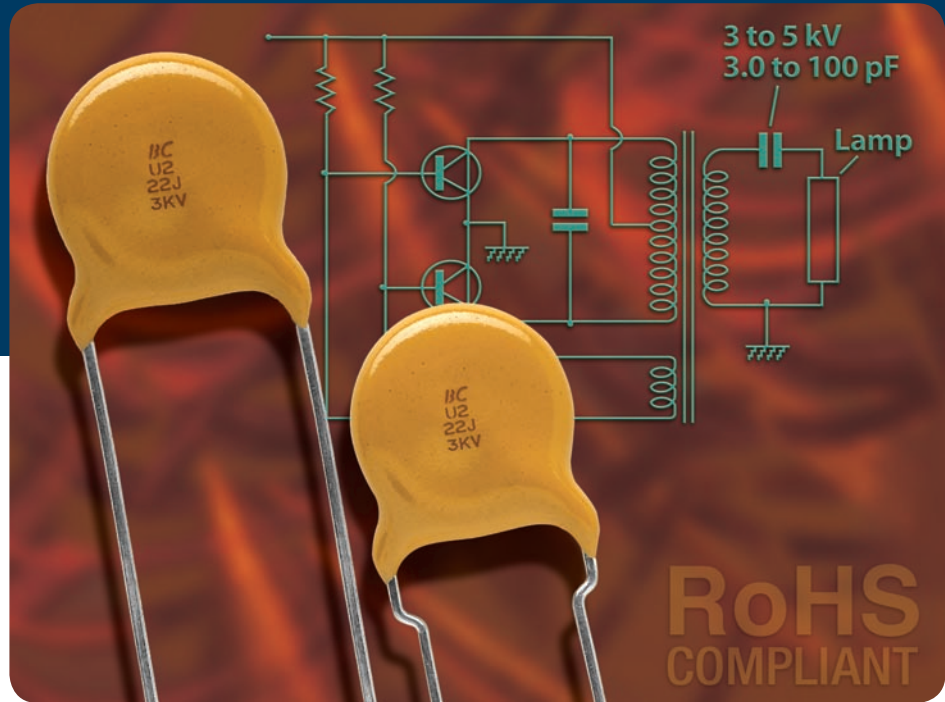




# SINGLE-LAYER DISC CAPACITORS

3 kV Series



## High-Voltage 3 kV Series

### KEY BENEFITS

- Complies with IEC 60384-8
- High reliability
- WEEE/RoHS compliance, according to EU directive 2002/95/EC
- Kinked (preferred) or straight leads
- Gold-colored epoxy resin coating, flammable-resistant according to UL94V-0
- Small size
- Capacitance range: 2 pF to 220 pF
- Rated voltage: 3 kVdc
- Operating temperature: - 55 °C to + 125 °C
- Dielectric strength: 150 % of V rated + 500 Vdc (5 kV)

### APPLICATIONS

- High voltage dc applications
- High voltage pulse applications
- LCD backlight inverters

# Ceramic Disc Capacitors Class 1, 3 kV (DC)

### FEATURES

- Low losses
- High stability
- High capacitance in small size
- Kinked (preferred) or straight leads
- Lead (Pb)-free available

### APPLICATIONS

- DC high voltage
- Pulse high voltage
- LCD backlight inverter

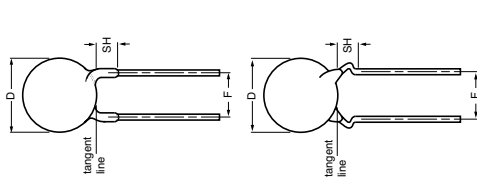
### DESIGN

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 0.6 mm or 0.8 mm.

The capacitors may be supplied with kinked or straight leads with a lead spacing of 7.5 mm (0.300") or 10 mm (0.400") and a lead length from 4 mm to 30 mm. The standard tolerance on capacitance is  $\pm 5\%$  or  $\pm 10\%$  for class 1 capacitors. Encapsulation is made of gold-colored epoxy-resin, flammable resistant in accordance with "UL94V-0".



RoHS COMPLIANT



Capacitors with 7.5 mm (0.30") and 10 mm (0.40") lead spacing

### OPERATING TEMPERATURE RANGE

Class 1 C0G; U2J, U2M: -55 °C to +125 °C

### TEMPERATURE COEFFICIENTS

Class 1

### SECTIONAL SPECIFICATIONS

Class 1 IEC 60384-8, EIA 198

### CLIMATIC CATEGORY

Class 1 C0G; U2J, U2M 55/125/21

### MARKING

Straight and kinked leaded versions are gold coloured. Marking indicates capacitance value and tolerance in accordance with "EIA 198", and voltage.

### ORDERING INFORMATION, 3 kV<sub>DC</sub>, KINKED

C (pF)	TOL (%)	D <sub>max</sub> (mm)	LEAD SPACING F (mm)	SH/D <sub>Rmax</sub> (1) (mm)	CLEAR TEXT CODE
CLASS 1					
2	± 0.25	6.5	7.5	4.0	S209C250UR6.K7R
3	± 0.50				S309C250UR6.K7R
49	± 0.50	6.5	7.5	4.0	S499D250HR6.K7R
10					S100J25U2JR6.K7R
15	± 0.50	6.5	7.5	4.0	S150J25U2JR6.K7R
22					S220J25U2MR6.K7R
33	± 0.50	6.5	7.5	4.0	S330J25U2MR6.K7R
47					S470J29U2MR6.K7R
68	± 0.50	6.5	7.5	4.0	S680J31U2MR6.K7R
100					S101J35U2MR6.K7R
120	± 0.50	6.5	7.5	4.0	S121J39U2MR6.K7R
150					S151J41U2MR6.K7R
180	± 0.50	6.5	7.5	4.0	S181J49U2MR6.K7R
220					S221J49U2MR6.K7R

### Notes

- (1) SH = Seated height
- Maximum thickness 5.0 mm
- Refer to outward kinked leads. Other styles available on request (straight or inline kinked leads).

### PACKAGING

PACKAGING TYPE	SIZE CODE	LEAD SPACE (mm)	VOLTAGE (V <sub>oc</sub> )	SPQ	BOX DIMENSIONS L x W x H (mm)
Bulk (long lead L ≥ 25.4 mm)	20 to 47	≥ 7.5	3 kV	1000	245 x 120 x 85
	53 to 75			1000	
	84 to 96			500	
Tape and reel	≤ 47			1000	370 x 370 x 60
Ampmpack	≤ 47			1500	360 x 330 x 55

### Note

- The capacitors are supplied in bulk packaging (cardboard boxes), in tape on reel or in ampmpack

Revision 20-Aug-08

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