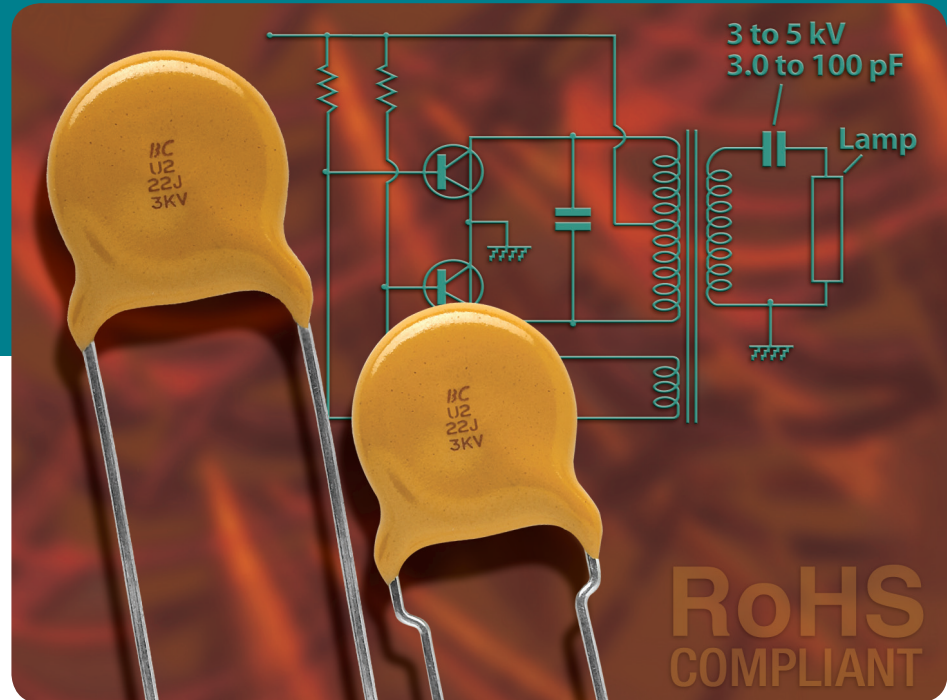




SINGLE-LAYER DISC CAPACITORS

S Series



High-Voltage 3 kV Series

KEY BENEFITS

- Complies with IEC 60384-8
- High reliability
- Compliant to RoHS directive 2002/95/EC and in accordance to WEEE 2002/96/EC
- Kinked (preferred) or straight leads
- Gold-colored epoxy resin coating, flammable-resistant according to UL 94 V-0
- Small size
- Capacitance range: 2 pF to 220 pF
- Rated voltage: 3 kV_{DC}
- Operating temperature: - 55 °C to + 125 °C
- Dielectric strength: 150 % of $V_{\text{rated}} + 500 V_{\text{DC}}$ (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
- Compliant to RoHS directive 2002/09/EC



RoHS COMPLIANT

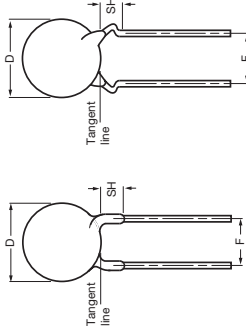
APPLICATIONS

- 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 (0.30") or 10 mm (0.40") 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 "UL 94 V-0"



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

QUICK REFERENCE DATA	
DESCRIPTION	CLASS 1 (C0G)
Voltage (V _{dc})	3000
Min. Capacitance (pF)	2
Max. Capacitance (pF)	220
Mounting	Through hole

MARKING

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

OPERATING TEMPERATURE RANGE

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

TEMPERATURE COEFFICIENTS

Class 1, C0G

SECTIONAL SPECIFICATIONS

Class 1, IEC 60384-8, EIA 198

CLIMATIC CATEGORY

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

ORDERING INFORMATION 3 kV _{DC} , KINKED					
C (pF)	TOL (%)	D _{MAX} (mm)	LEAD SPACING (mm)	SH/DR _{MAX} (mm)	CLEAR TEXT CODE
CLASS 1 C0G					
2					13 TH DIGIT: T = REEL; U = AMMO; 3 = BULK
3	± 0.25				S209C25C0UR6.K7R
4.9	± 0.50				S309C25C0UR6.K7R
10		6.5			S499D25C0HR6.K7R
15					S100U25U2JHR6.K7R
22					S220J25U2MR6.K7R
33			7.5	4.0	S330J25U2MR6.K7R
47					S470J29U2MR6.K7R
68	± 5				S680J31U2MR6.K7R
100					S101J35U2MR6.K7R
120					S121J39U2MR6.K7R
150		10.5			S151J41U2MR6.K7R
180		12.5			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 _{dc})	SPQ	BOX DIMENSIONS L x W x H
Bulk (long lead L ≥ 25.4 mm)	20 to 47			1000	
	53 to 45			1000	245 x 120 x 65
	84 to 96	≥ 7.5	3 kV	500	
Tape and reel	≤ 47			250	
Ammopack	≤ 47			1000	370 x 370 x 60
Note				1500	360 x 330 x 55

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

Revision 07-Jan-10

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