Class 1 Radial-Leaded High Voltage Single Layer Ceramic Disc Capacitors Feature Low DC Bias and DF, Reduce Power Losses in High Voltage Generators for Industrial and Medical Applications

Product Benefits:

- Low capacitance loss of < 25 % at 15 kV
- Low DF < 1.0 % at 1 kHz
- Low DC bias
- Capacitance range from 100 pF to 1 nF, with standard tolerances of ± 10 %
- Voltages of 15 kV_{DC}
- Available with straight leads with spacing of 9.5 mm and 12.5 mm
- Encapsulation made of flame-resistant epoxy resin in accordance with UL 94 V-0
- RoHS-compliant

Market Applications:

- High voltage generators for baggage scanners, medical and industrial X-ray applications, air purifiers and ionizers, and pulsed lasers

The News:

Vishay Intertechnology introduces a new series of Class 1 radial-leaded high voltage single layer ceramic disc capacitors that deliver a low dissipation factor (DF) and DC bias for industrial and medical applications.

- The devices' capacitance loss at 15 kV is half that of Class 2 devices, while their DF at 1 kHz is .5 % lower. The result is reduced power losses and high reliability
- The capacitors consist of a silver-plated ceramic disc with tinned copper-clad steel connection leads offering 0.65 mm and 0.80 mm diameters

The Key Specifications:

- Voltage: 15 kV_{DC}
- Capacitance: 100 pF to 1 nF
- Capacitance tolerance: ± 10 %
- Dissipation factor: < 1.0 % at 1 kHz
- Operating temperature range: -30 °C to +85 °C

Availability:
Samples and production quantities of the HVCC Class 1 series are available now, with lead times of 12 weeks.

To access the product datasheet on the Vishay Website, go to
http://www.vishay.com/ppg?23149 (HVCC Class 1 Series)

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