

# High-Voltage Disk-Style Ceramic Capacitors

Elwood-HVC manufactures a wide variety of high voltage, disc style, ceramic capacitors. TC type(NPO through N5600) and high K types are available.

Parts made from the TC bodies find applications in R.F. power generating devices where modest KVAR ratings are acceptable. The high K types are most widely used in high voltage DC power supplies such as voltage multiplier supplies.

All of Elwood-HVC's high voltage disc style capacitors incorporated special material, design and construction reliability. Dielectric section thicknesses are adequate to permit reliable operation at full rated voltage. The electrode always extends to the edge of the disc to minimize electric field stress within the dielectric and to maximize corona inception levels.

Special metalizing materials and techniques are used to provide outstanding electrode to ceramic adhesion to minimize noise, corona and instability problems from this source. Wire leads are offset in the area of egress from the body to eliminate corona and breakdown problems in these areas. Soldering of leads is carefully controlled to maintain electrode adhesion and to minimize thermal shock that can lower the dielectric strength of the ceramic element.

Assembled parts are subjected to a multiple stage dual solvent system cleaning operation to insure cleanliness prior to the final processing operation of coating. The coating is selected to suit the intended application and to enhance and preserve the characteristics of the component. It is generally a fluidized bed epoxy though other systems are used where indicated. The coating is always nonflammable and self-extinguishing.

Testing and inspections of the finished product use equipment and techniques developed to detect and remove potential catastrophic failures that are sometimes missed by generally accepted testing techniques. To the maximum extent practical, the test conditions, test duration, accept-reject decisions and sorting are automatically controlled to minimize operator error.

## Product Features:

- High voltage capabilities with ratings(1 to 50 KVDC)
- Full range of capacitance values(2pF to 0.022u)
- Full range of temperature characteristics (NPO to Z5U)
- Tolerances to meet the needs of demanding applications,±5%, ±10%, ±20%, and +80 /- 20%)
- Low dissipation factor (D.F.)
- Custom solutions engineered to specifications
- Samples built to custom specifications
- Engineered, built and shipped in 1 to 2 weeks
- Factory orders in 6 weeks or less (typical)
- RoHS compliant

## Product Value :

- Pricing to compete with any ceramic disc capacitor
- No minimum quantities
- Flexible delivery options to suit Lean, Just In Time (JIT), and kanban manufacturing and inventory management systems.