

# SERIES ZD

## Metallized Polyester (Mylar\*) Capacitors

### Performance Characteristics

#### General Data

**CONSTRUCTION:** Extended foil (non-inductive).

**CONFIGURATION:** Available in the following: A, oval wrap and fill; B, tubular wrap and fill; X, axial lead epoxy case; R, radial lead epoxy case; L, tubular hermetically sealed case; and G, rectangular hermetically sealed case.

**LEADS:** "Copperweld" (steel coated with 30% copper by wt. and tin-plated with 60-40 Sn-Pb) leads are standard.

#### Performance Data

##### 1. Capacitance

Capacitance shall be measured at or referred to  $1000 \pm 20$  Hz at  $25 \pm 5$  degrees C for capacitance values up to and including 1.0 MFD. Capacitance values greater than 1.0 MFD measured at  $60 \pm 6$  Hz.

##### 2. Available Capacitance Tolerances

Standard Capacitance Tolerance is  $\pm 20\%$ . For other tolerances a designation must be added to the end of the part number. Tolerance designators are:  $\pm 10\%$  K,  $\pm 5\%$  J,  $\pm 3\%$  H,  $\pm 2\%$  G and  $\pm 1\%$  F.

##### 3. Capacity Variation

Typical capacitance variation is shown on performance chart.

##### 4. Dissipation Factor

Dissipation factor shall be measured as described for capacitance, and shall not exceed 1.0%.

##### 5. Insulation Resistance

Insulation resistance shall be measured at rated voltage or 100V, whichever is less, after 2 minutes electrification. Minimum values shall be:

Temperature	+25 deg. C	+85 deg. C	+125 deg. C
Megohms X			
Microfarads	10,000	100	10
Need not Exceed (Megohms)	40,000	1,000	100

##### 6. Dielectric Strength

Capacitors shall withstand specified dc test potential for 60 seconds through a limiting resistance of 100 ohms/volts.

Terminal to terminal—150% of dc rating.

Terminal to case—200% of dc rating.

##### 7. Operating Temperature Range

These capacitors are designed to operate over the temperature range from  $-55^{\circ}\text{C}$  to  $+125^{\circ}\text{C}$ . Derate linearly from  $85^{\circ}\text{C}$  to 50% at  $125^{\circ}\text{C}$ .

##### 8. Moisture Resistance

Capacitors will meet or exceed the requirements of MIL-STD-202, Method 103, Condition B, with 100 volts or rated voltage applied, whichever is less.

##### 9. Life Test

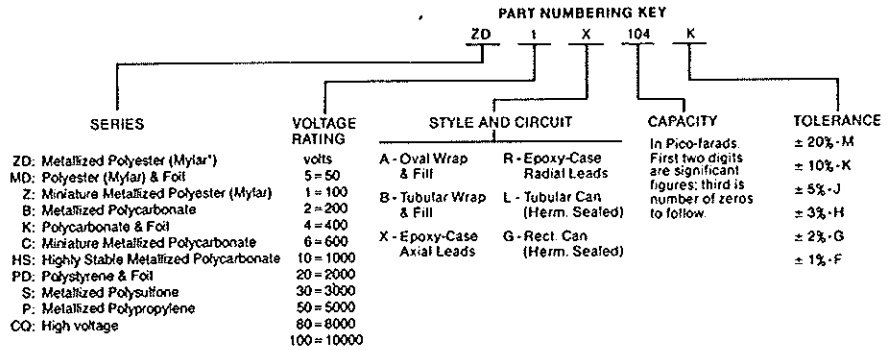
Will withstand 140% of rated voltage for 250 hours at  $\pm 125$  deg. C.

##### 10. Lead Pull Test

The leads on these capacitors will withstand a steady axially applied pull of 5 lbs. for one minute.

##### 11. Vibration

Capacitors will meet or exceed the requirements of MIL-STD-202, Method 204.



TEMPERATURE CHARACTERISTIC CURVES

