

## Capacitor Unit Details

### Capacitor Part Number:

**51L255WC10**

|   |                  |           |
|---|------------------|-----------|
| Rated Voltage                                   | 19920 V          | 60 Hz     |
| KVAR at Rated Voltage                           | 50 kVAR          |           |
| Rated Capacitance                               | 0.33 $\mu$ F     |           |
| Manufacturing tolerance for capacitor unit kvar | -0% to +10%      |           |
| Capacitor Unit BIL                              | 150 kV           |           |
| Bushing Leakage Distance (Nominal)              | 18 in            | 457 mm    |
| Number of Film Layers per Pad                   | 2                |           |
| Total Film Pad Thickness                        | 1.40 mil         |           |
| Dry Space Factor                                | 29.4 %           |           |
| Number of Series Sections                       | 13               |           |
| Number of Parallel Packs per Section            | 1                |           |
| Section Voltage                                 | 1532 Volts       |           |
| Volts/mil stress (film only)                    | 1095 Volts/mil   |           |
| Volts/mil stress (film and fluid)               | 846 Volts/mil    |           |
| Discharge Resistor Rating                       | 110.5 M $\Omega$ |           |
| Weight  | 38.6 Lbs         | 17.5 kg   |
| Gallons of Dielectric Fluid                     | 1.46 Gal         |           |
| Ground Test                                     | 0 V              | AC 10 sec |
| Dielectric Test                                 | 42828 V          | AC 10 sec |
| Manufactured with Folded edges (Y/N)            | Yes              |           |

### Additional Comments:

- Case thickness: Sides: 0.042", Cover: 0.05", Bottom: 0.09".
- Average losses of a stabilized unit in service is 0.1 W/kvar.
- Paint is an epoxy primer w/ urethane top coat meeting ANSI C57.12.31-2010 Pole Mounted Equipment .
- Internal elements will be extended foil and connected using ultrasonic welding.
- Capacitor unit operating temperature range is -50 to +50 deg. C.
- Maximum Bushing Torque 25 Ft-Lbs or 34 N-m.
- Percent Alteration on Surface Altered Film is 10% (avg.).
- Fluid Type (Non PCB) is DIELEKTROL VIIa, with a Dielectric Constant of 2.62.

