# HIGH-FREQ ALUMINUM ELECTROLYTIC

#### **HD SERIES**

## **SUBMINIATURE** (Radial Lead, Horizontal Deflection)

The NTE HD series of aluminum electrolytic non-polarized capacitors are designed specifically for horizontal deflection current correction where high frequency and high ripple current occur.

#### **RATINGS**

Capacitance Range: 1.0µf to 10µf

Tolerance: ±20%

Voltage Range: 25 Volts and 50 Volts

#### PERFORMANCE SPECIFICATIONS

#### **Operating Temperature Range:**

-25°C to +85°C (-13°F to +185°F)

**Leakage Current:**  $1 \le 0.2CV$  (measured after 5 minutes of applied rated voltage)

 $I = Leakage Current (\mu A)$  $C = Nominal Capacitance (\mu f)$ 

V = Rated Voltage (V)

**Capacitance Tolerance:** ±20% (M) measured at +20°C (+68°F), 1kH<sub>7</sub>

**Load Life:** 1000 Hrs @ 12V DC, +70°C (+158°F),

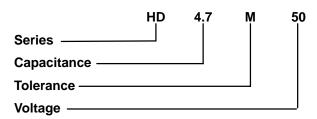
at specified ripple current

Leakage Current: Initial specified value or less Dissipation Factor: < 200% of specified value Capacitance Change: Within ±15% of initial value

**Shelf Life:** 500 Hrs @ +85°C (+185°F), no voltage applied

Leakage Current: Initial specified value or less Dissipation Factor: < 200% of specified value Capacitance Change: Within ±15% of initial value

#### ORDERING INFORMATION



#### **MECHANICAL SPECIFICATIONS**

#### Lead Solderability:

Meets the requirements of MIL-STD 202, Method 208

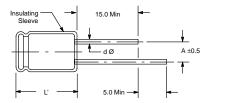
#### Marking:

Consists of series type, nominal capacitance, rated voltage, temperature range, anode and/or cathode identification, NTE identification.

#### **Recommended Cleaning Solvents:**

Methanol, isopropanol ethanol, isobutanol, petroleum ether, propanol and/or commercial deter-Halogenated hydrocarbon cleaning agents such as Freon (MF, TF, or TC), trichloroethylene, trichloroethane, or methylchloride are not recommended as they may damage the capacitor.

#### **CASE SIZE AND DIMENSIONS:**





# **HD Series Dimensions:**

Diameter (D Ø) x Length (L): mm

| Capacitance<br>(μf) | 25V and 50V | Ripple Current*<br>(A <sub>p-p</sub> ) |  |
|---------------------|-------------|--|--|
| 1.0                 | 12.5 x 20   | 2.0                                    |  |
| 2.2                 | 12.5 x 25   | 3.0                                    |  |
| 3.3                 | 16 x 25     | 4.0                                    |  |
| 4.7                 | 16 x 31.5   | 5.0                                    |  |
| 5.6                 | 16 x 31.5   | 6.0                                    |  |
| 6.8                 | 16 x 35.5   | 7.0                                    |  |
| 8.2                 | 18 x 35.5   | 8.0                                    |  |
| 10.0                | 18 x 40     | 9.0                                    |  |

Allowable ripple current @ 70°C, 12V DC, and 15.75kH<sub>7</sub>

### **HD Mechanical Specs: Dimensions (mm)**

| Outside Diameter (D Ø) | 12.5 | 16  | 18  |
|------------------------|------|-----|-----|
| Lead Spacing (A)       | 5.0  | 7.5 | 7.5 |
| Lead Wire (d Ø)        | 0.6  | 8.0 | 8.0 |