# 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:**

 $-25^{\circ}$ C to  $+85^{\circ}$ C ( $-13^{\circ}$ F to  $+185^{\circ}$ 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>

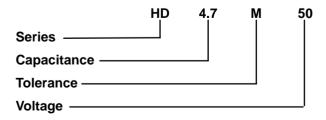
**Load Life:** 1000 Hrs @ 12V DC, +70°C (+158°F), at specified ripple current

Leakage Current: Initial specified value or less Dissipation Factor: < 200% of specified value Capacitance Change: Within  $\pm 15\%$  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

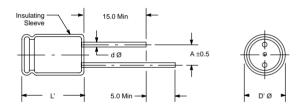
#### Marking:

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 detergents. 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	25V and 50V	Ripple Current*	
(μf)		$(A_{p-p})$	
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>Z</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	0.8	0.8