

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:** 1.0 μ f to 10 μ f
- Tolerance:** $\pm 20\%$
- Voltage Range:** 25 Volts and 50 Volts

PERFORMANCE SPECIFICATIONS

- Operating Temperature Range:**
-25°C to +85°C (-13°F to +185°F)
- Leakage Current:** $I \leq 0.2CV$ (measured after 5 minutes of applied rated voltage)
 I = Leakage Current (μ A)
 C = Nominal Capacitance (μ f)
 V = Rated Voltage (V)

Capacitance Tolerance: $\pm 20\%$ (M)
measured at +20°C (+68°F), 1kHz

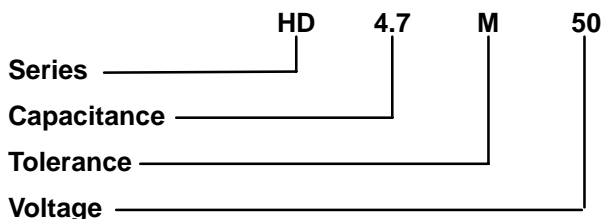
Load Life: 1000 Hrs @ 12V DC, +70°C (+158°F),
at specified ripple current

- 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 $\pm 15\%$ of initial value

ORDERING INFORMATION



MECHANICAL SPECIFICATIONS

Lead Solderability:

Meets the requirements of MIL-STD 202, Method 208

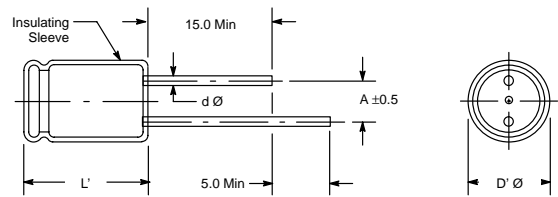
Marking:

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 (μ f)	25V and 50V	Ripple Current* (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 15.75kHz

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