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: $1.0\mu f$ to $10\mu f$

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 (μf)

V = Rated Voltage (V)

Capacitance Tolerance: ±20% (M) measured at +20°C (+68°F), 1kH_Z

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

at specified ripple current

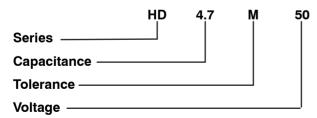
Leakage Current: Initial specified value or less Dissipation Factor: < 200% of specified value Capacitance Change: Within $\pm 15\%$ of initial value

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

MECHANICAL SPECIFICATIONS (Cont'd)

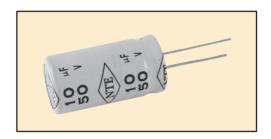
Marking:

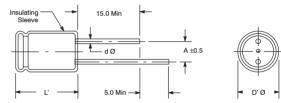
Consists of series type, nominal capacitance, rated voltage, temperature range, anode and/or cathode identification, NTE identification.

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 15.75kH₇

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