

JANTZEN AUDIO

Alumen Z-Cap

PURE ALUMINUM FOIL CAPACITOR



PRODUCT FEATURES

The Alumen Z-Cap is a high-end pure aluminum foil capacitor, designed specifically for passive crossovers (tweeters and midrange drivers).

It utilizes a much thinner dielectric insulation compared to the market standard.

A high voltage rating is not needed for application related to passive loudspeaker crossovers.

The usage of a thinner dielectric insulator allows for a capacitors with less “memory” and one that is much faster reacting.

The Alumen Z-Cap offers unparalleled value for money in terms of cost versus performance.

Compared to the Superior and Silver Z-Caps (Super MKP / double metallized polypropylene foil) capacitors, the Alumen Z-Cap will bring less brightness and a little more natural top end balance to your system.

Ideal for audio aficionados who prefer a slightly less bright system, while also hearing improvements in the overall naturalness/neutrality of the whole system.

Due to the max. 100 volts DC voltage rating, we advise customers to be mindful when using Alumen Z-Caps for tube/valve and power amplifier application.

For upgrading the coupling capacitors in amplifiers, we instead recommend choosing our Superior or Silver Z-Caps (Double-foil Super MKP capacitors).

KEY INNOVATIONS

- We use the thinnest possible dielectric insulation to eliminate memory effect in the capacitor
- An extremely fast reacting capacitor
- Very low ESR, SEL, inductance and dielectric absorption data
- High quality pure aluminum foil wound with high precision using specialized winding machinery
- Specifically designed for the tweeter and upper mid-range sections on passive crossovers
- Can also be used as coupling capacitors for transistor amplifiers

TECHNICAL DATA (Part 1 of 2)

Type: Non polarized pure aluminum foil capacitor

Dielectric: Polypropylene film

Construction: Four-layer round tubular type axial leads

Winding: Aluminum foil spliced to polypropylene insulation film

Rated Voltage: 100 VDC / 65 VAC

Test Voltage: 150% rated voltage

Electrodes: Pure copper foil

Contacts: Non-inductive zinc thermally sprayed extended film

Coating: Gray plastic tape wrapped black resin, sealed in an anodized aluminum tube

Leads: Tin plated oxygen free pure copper

Capacity Range: 100VDC from 1.0 μF to 10 μF

Capacity tolerance: $\pm 3\%$ (on nominal value)

Dielectric constant: Non-polar dielectric

Dissipation factor: Extremely low

Dielectric absorption factor: $< 0.5\%$ @20°C

TECHNICAL DATA (Part 2 of 2)

Dielectric thickness: PB=4 μ m

Equivalent series resistance: Extremely low

Self-inductance: 0 nH

Insulation resistance: > 100.000 M Ω @20 $^{\circ}$ C

Temperature coefficient: -200 $^{\circ}$ Cx10 $^{-6}$ / $^{\circ}$ C

Temperature Range: -55 $^{\circ}$ Cto +85 $^{\circ}$ C

Metal layer thickness: PB=0.3 μ m

Metal layer conductivity: PB =1.2 Ω /cm 2

VALUES AND SIZES

- ▶ 0,47 μ F (\emptyset 17mm - L: 44mm) (Product Index: 001-7012)
- ▶ 0,56 μ F (\emptyset 16mm - L: 43mm) (Product Index: 001-7014)
- ▶ 0,68 μ F (\emptyset 18mm - L: 43mm) (Product Index: 001-7016)
- ▶ 0,82 μ F (\emptyset 18mm - L: 43mm) (Product Index: 001-7018)
- ▶ 1,00 μ F (\emptyset 22mm - L: 70mm) (Product Index: 001-7022)
- ▶ 1,50 μ F (\emptyset 26mm - L: 70mm) (Product Index: 001-7025)
- ▶ 2,20 μ F (\emptyset 22mm - L: 80mm) (Product Index: 001-7028)
- ▶ 2,70 μ F (\emptyset 26mm - L: 80mm) (Product Index: 001-7030)
- ▶ 3,30 μ F (\emptyset 26mm - L: 96mm) (Product Index: 001-7035)
- ▶ 3,90 μ F (\emptyset 26mm - L: 96mm) (Product Index: 001-7037)
- ▶ 4,70 μ F (\emptyset 26mm - L: 96mm) (Product Index: 001-7040)
- ▶ 5,60 μ F (\emptyset 30mm - L: 96mm) (Product Index: 001-7045)
- ▶ 6,80 μ F (\emptyset 31mm - L: 105mm) (Product Index: 001-7050)
- ▶ 8,20 μ F (\emptyset 31mm - L: 105mm) (Product Index: 001-7055)
- ▶ 10,00 μ F (\emptyset 36mm - L: 105mm) (Product Index: 001-7060)