JANTZEN AUDIO

AMBER Z-CAP

PURE COPPER FOIL CAPACITOR

Please note:
Due to periodic issues with sourcing the metallic foil for printing the stickers (wrapping), different production batches will have different shades and finishes for the stickers

Due to the max. 200 volts DC voltage rating, we advise customers to be mindful when using Amber 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).

PRODUCT FEATURES

The Amber Z-Cap is a super high-end pure copper foil capacitor, designed specifically for passive crossovers (mainly tweeters).

They are also equally well suited for mid-range application, but due to the price point of these super high-end capacitors, they will most often be used for tweeter application.

The Amber Z-Cap builds on the same design principles of our already critically acclaimed Alumen Z-Caps.

The differences between the two are subtle, but to the connoisseur listener, the listening experience will still be a clear improvement in the overall tonal balance.

Copper foil has a noticeable positive impact on the “flavor” of the sound.

This “flavor” of copper foil is best described as an even more neutral/natural depiction of vocals and instruments.

This is paired with the enhancements in transparency and detail richness on an even higher level compared metalized polypropylene capacitors (MKP / Super MKP capacitors).

KEY INNOVATIONS

- An extremely fast reacting capacitor
- Ultra-thin dielectric insulation to eliminate memory effect in the capacitor
- Extremely low ESR, SEL, inductance and dielectric absorption data
- High quality pure copper foil wound with highly specialized machinery and precision winding techniques
- The center of the capacitor is enforced by small steel balls to further ensure stability and shape of the capacitor
- The specialized winding technique and overall quality of this capacitor enables us to offer a high-end product with a lot less distortion compared to the market standard
- Specifically designed for the tweeter and mid-range section of passive crossovers
- Can also be used as coupling capacitors for transistor amplifiers

TECHNICAL DATA (Part 1 of 2)

Type: Non polarized pure copper foil capacitor

Dielectric: Polypropylene film

Construction: Four-layer round tubular type axial leads

Winding: Copper foil spliced to polypropylene insulation film

Rated Voltage: 200VDC / 160VAC

Test Voltage: 150% rated voltage

Electrodes: Pure copper foil

Contacts: Non-inductive zinc thermally sprayed extended film

Coating: Bronze plastic tape wrapped black resin, sealed in a copper colored anodized aluminum tube

Leads: Tin plated oxygen free pure copper

Capacitance Range: 200VDC from 1.0 µF to 8.2µF

Capacitance tolerance: ±5% (on nominal value)

Dielectric constant: Non-polar dielectric

Dissipation factor: Extremely low

Dielectric absorption factor: ＜0.5% @20℃

TECHNICAL DATA (Part 2 of 2)

Dielectric thickness: PB=5µm

Equivalent series resistance: Extremely low

Self-inductance: 0 nH

Insulation resistance: ＞100.000 MΩ@20℃

Temperature coefficient: -200℃x10^{-}6/℃

Temperature Range: -55℃to +85℃

Metal layer thickness: PB=0.3µm

Metal layer conductivity: PB =1.2 Ω/cm^2

VALUES AND SIZES

- 1,00µF (Ø 26mm - L: 86mm) (Product Index: 001-7222)
- 1,50µF (Ø 26mm - L: 86mm) (Product Index: 001-7224)
- 2,20µF (Ø 30mm - L: 86mm) (Product Index: 001-7228)
- 2,70µF (Ø 30mm - L: 86mm) (Product Index: 001-7230)
- 3,30µF (Ø 30mm - L: 86mm) (Product Index: 001-7235)
- 3,90µF (Ø 36mm - L: 96mm) (Product Index: 001-7237)
- 4,70µF (Ø 51mm - L: 96mm) (Product Index: 001-7240)
- 5,60µF (Ø 51mm - L: 96mm) (Product Index: 001-7243)
- 6,80µF (Ø 62mm - L: 96mm) (Product Index: 001-7250)
- 8,20µF (Ø 62mm - L: 96mm) (Product Index: 001-7253)