JANTZEN AUDIO

AMBER Z-CAP

PURE COPPER FOIL CAPACITOR

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)