

JANTZEN AUDIO

Amber Z-Cap

PURE COPPER FOIL CAPACITOR



PRODUCT FEATURES

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

They are primarily used for the tweeter section of crossovers but work equally well for mid-range section 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 simply has a different sonic “flavor” compared to aluminum foil.

The “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).

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 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: Pure solid copper foil spliced to polypropylene insulation film

Voltage Rating: 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 8.2 μF

Capacitance tolerance: $\pm 5\%$ (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=5 μ m

Equivalent series resistance: Extremely low

Self-inductance: 0 nH

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

Temperature coefficient: $-200^\circ\text{C} \times 10^{-6} / ^\circ\text{C}$

Temperature Range: -55°C to $+85^\circ\text{C}$

Metal layer thickness: PB=0.3 μ m

Metal layer conductivity: PB = $1.2 \text{ }\Omega/\text{cm}^2$

VALUES AND SIZES

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