

# JANTZEN AUDIO

## Superior Z-Cap

Metalized PP foil super MKP capacitor



# PRODUCT FEATURE

The Superior-Z Cap offers extremely high performance, but still at a reasonable price point.

Highly recommended for tweeters and mid-range application for high-end passive speaker crossovers and as coupling capacitors in tube and power amplifiers.

The Superior Z-Cap is a metalized polypropylene foil capacitor but made as special construction we call a “Super MKP Capacitor”.

Super MKP capacitors are made with a double lane of metalized polypropylene foil, hence a double foil construction.

By using special winding machines and winding techniques, two capacitors are connected in series within one capacitor housing,

When making this type of capacitor you therefore need 4 times the foil used in standard type metalized polypropylene foil capacitors.

Compared to standard type metalized polypropylene foil capacitors, the Superior Z-Cap is on a higher audiophile level, where even finest nuance improvements can be heard.

An extremely well made and precise MKP capacitor with a tolerance on capacitance of only +/- 2%.

We do not fill our capacitors with any dielectric fluid, which eliminates all risks of evaporation or leakage that can shorten longevity and quality of the capacitor.

# TECHNICAL DATA (Part 1 of 2)

**Type:** Non-polarized super MKP (double foil lanes)

**Dielectric:** Polypropylene film

**Construction:** Double-layer round tubular type axial leads

**Winding:** Bifilar extended metalized foil

**Test Voltage:** 150% rated voltage

**Electrodes:** Aluminum metallized vacuum deposited

**Contacts:** Non-inductive zinc thermally sprayed extended film

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

**Leads:** Tin plated oxygen free copper

**Voltage rating:** 1200 VDC / 800 VAC from 0.1  $\mu$ F to 0.39 $\mu$ F  
800 VDC / 630 VAC from 0.47  $\mu$ F to 22 $\mu$ F

**Capacitance tolerance:**  $\pm 2\%$  (on nominal value)

**Dielectric constant:** Non-polar dielectric

**Dissipation factor:** Extremely low

# TECHNICAL DATA (Part 2 of 2)

**Dielectric absorption factor:**  $< 0.5\% @ 20^{\circ}\text{C}$

**Dielectric thickness:** PB=6 $\mu\text{m}$

**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:**  $-55^{\circ}\text{C}$  to  $+85^{\circ}\text{C}$

**Metal layer thickness:** PB=0.4 $\mu\text{m}$

**Metal layer conductivity:** PB = 2.5  $\Omega/\text{cm}^2$

# VALUES AND SIZES (Part 1 of 2)

- ▶ 0,10 $\mu$ F ( $\varnothing$  17mm - L: 43mm) (Product Index: 001-0502)
- ▶ 0,15 $\mu$ F ( $\varnothing$  17mm - L: 43mm) (Product Index: 001-0506)
- ▶ 0,22 $\mu$ F ( $\varnothing$  23mm - L: 45mm) (Product Index: 001-0510)
- ▶ 0,33 $\mu$ F ( $\varnothing$  26mm - L: 45mm) (Product Index: 001-0514)
- ▶ 0,39 $\mu$ F ( $\varnothing$  31mm - L: 45mm) (Product Index: 001-0516)
- ▶ 0,47 $\mu$ F ( $\varnothing$  17mm - L: 43mm) (Product Index: 001-0518)
- ▶ 0,56 $\mu$ F ( $\varnothing$  17mm - L: 43mm) (Product Index: 001-0522)
- ▶ 0,68 $\mu$ F ( $\varnothing$  17mm - L: 43mm) (Product Index: 001-0526)
- ▶ 0,82 $\mu$ F ( $\varnothing$  19mm - L: 43mm) (Product Index: 001-0530)
- ▶ 1,00 $\mu$ F ( $\varnothing$  19mm - L: 43mm) (Product Index: 001-0534)
- ▶ 1,50 $\mu$ F ( $\varnothing$  22mm - L: 45mm) (Product Index: 001-0538)
- ▶ 1,80 $\mu$ F ( $\varnothing$  26mm - L: 45mm) (Product Index: 001-0542)
- ▶ 2,20 $\mu$ F ( $\varnothing$  26mm - L: 45mm) (Product Index: 001-0546)
- ▶ 2,70 $\mu$ F ( $\varnothing$  30mm - L: 45mm) (Product Index: 001-0550)
- ▶ 3,30 $\mu$ F ( $\varnothing$  30mm - L: 45mm) (Product Index: 001-0554)
- ▶ 3,90 $\mu$ F ( $\varnothing$  30mm - L: 57mm) (Product Index: 001-0558)
- ▶ 4,70 $\mu$ F ( $\varnothing$  30mm - L: 57mm) (Product Index: 001-0562)
- ▶ 5,60 $\mu$ F ( $\varnothing$  35mm - L: 65mm) (Product Index: 001-0566)

## VALUES AND SIZES (Part 2 of 2)

- ▶ 6,80 $\mu$ F ( $\varnothing$  35mm - L: 65mm) (Product Index: 001-0570)
- ▶ 8,20 $\mu$ F ( $\varnothing$  35mm - L: 70mm) (Product Index: 001-0574)
- ▶ 10,00 $\mu$ F ( $\varnothing$  46mm - L: 70mm) (Product Index: 001-0578)
- ▶ 12,00 $\mu$ F ( $\varnothing$  46mm - L: 70mm) (Product Index: 001-0582)
- ▶ 15,00 $\mu$ F ( $\varnothing$  52mm - L: 70mm) (Product Index: 001-0586)
- ▶ 18,00 $\mu$ F ( $\varnothing$  52mm - L: 70mm) (Product Index: 001-0588)
- ▶ 22,00 $\mu$ F ( $\varnothing$  52mm - L: 70mm) (Product Index: 001-0590)