

# JANTZEN AUDIO

## SUPERIOR Z-CAP

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 speakers and also as coupling capacitors in tube and power amplifiers.

Super MKP double foil design, where four times as much foil is used per microfarad, compared to single foil MKP capacitors.

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

Nitrogen filled instead of dielectric fluid, offering more foil per capacitor and eliminating risk of evaporation.

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

# 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

**Rated Voltage:** 1200 VDC / 800 VAC  
800 VDC / 630 VAC

**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

**Capacitance Range:** 1200VDC from 0.1  $\mu$ F to 0.39 $\mu$ F  
800VDC 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 ( $\emptyset$  35mm - L: 65mm) (Product Index: 001-0570)
- ▶ 8,20 $\mu$ F ( $\emptyset$  35mm - L: 70mm) (Product Index: 001-0574)
- ▶ 10,00 $\mu$ F ( $\emptyset$  46mm - L: 70mm) (Product Index: 001-0578)
- ▶ 12,00 $\mu$ F ( $\emptyset$  46mm - L: 70mm) (Product Index: 001-0582)
- ▶ 15,00 $\mu$ F ( $\emptyset$  52mm - L: 70mm) (Product Index: 001-0586)
- ▶ 18,00 $\mu$ F ( $\emptyset$  52mm - L: 70mm) (Product Index: 001-0588)
- ▶ 22,00 $\mu$ F ( $\emptyset$  52mm - L: 70mm) (Product Index: 001-0590)