

JANTZEN AUDIO

SUPERIOR Z-CAP

Metalized polypropylene foil super-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 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 Cap”.

A “Super cap” is made with a special double lane metalized polypropylene foil and using special winding machines and techniques, two capacitors are connected in series within one capacitor housing.

When making a “Super Cap” 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.

Nitrogen filled instead of dielectric fluid, which means having 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 μF to 0.39 μF
800VDC from 0.47 μF to 22 μF

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 μm

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=0.4 μm

Metal layer conductivity: PB = 2.5 Ω/cm^2

VALUES AND SIZES (Part 1 of 2)

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

VALUES AND SIZES (Part 2 of 2)

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