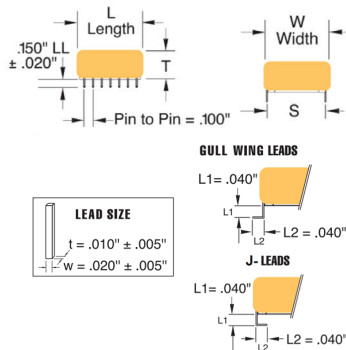


Capstick® Capacitor
Metallized Polyester Dielectric

CS11

Stacked Metallized
Polyester Capacitor
With -55°C to +125°C
operating temperature range



NEW

- High voltage ratings
- High ripple current ratings
- High capacitance density
- Surface-mount options available
- Ultra-low ESR/ESL
- Lightweight <25% of equivalent MLCC
- Low losses at high frequency
- Self-healing
- Rugged construction
- Made in U.S.A.

1200 VDC/630 VAC

PF Code	Value μF	W Max	T Max	L Max	S $\pm$.02 [.5]	Typical ESR 500kHz m Ω	Max Ripple current 85°C 500kHz [ARMS]	Lead Configuration	Part No.
474	0.47	1.22(31.0)	0.57(14.5)	1.2 [30.5]	1.1 [27.5]	33	14.2	Thru-hole	474K1200CS11_
474	0.47	1.22(31.0)	0.57(14.5)	1.2 [30.5]	1.1 [27.5]	33	14.2	SMD GULL-WING	474K1200CS11G_
474	0.47	1.22(31.0)	0.57(14.5)	1.2 [30.5]	1.1 [27.5]	33	14.2	SMD J-Lead	474K1200CS11J_

1000 VDC/500 VAC

804	0.80	1.22(31.0)	0.39(9.9)	1.1 [27.5]	1.1 [27.5]	28	5.8	Thru-hole	804K1000CS11_
804	0.80	1.22(31.0)	0.39(9.9)	1.1 [27.5]	1.1 [27.5]	28	5.8	SMD GULL-WING	804K1000CS11G_
804	0.80	1.22(31.0)	0.39(9.9)	1.1 [27.5]	1.1 [27.5]	28	5.8	SMD J-Lead	804K1000CS11J_

Dimensions in inches, metric (mm) in parenthesis
Tolerance: K ($\pm 10\%$) standard, J ($\pm 5\%$) available

RoHS part number information —

No suffix indicates RoHS-5 compliant standard part number. RoHS-5 product does not contain five of the RoHS banned materials (Hg, CrVI, Cd, PBB and PBDE) in levels exceeding the industry defined limits. Component lead wires are plated with Sn / Pb and match conventional SnPb 1 assembly requirements.

For a RoHS-6 compliant part, add a -FA suffix. RoHS-6 product does not contain any of the six RoHS banned materials (Hg, CrVI, Cd, PBB, PBDE and Pb) in levels exceeding the industry defined limits. Component lead wires are plated with Sn.

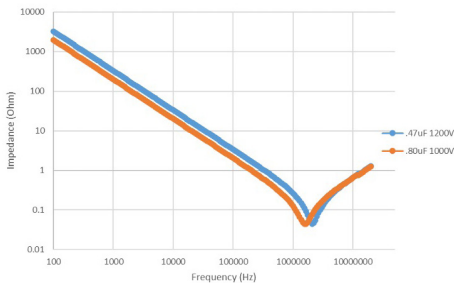
Electrical	Performance	Physical
Tolerance: Available in $\pm 5\%$, 10% (standard), 20% Voltage Range: 1000, 1200 VDC Dissipation Factor: $\leq 1.0\%$ @ 25°C, 1KHz Insulation Resistance: 1000GΩ or 100GΩ, whichever is less at rated voltage and 25°C Dielectric Strength: 1.3 x RVDC, 2 seconds max. Self Inductance: 2nh to 6nh typical Temperature Range: -55°C to 125°C operating -55°C to 85°C @ rated DC voltage derate voltage 1.25% / °C above 85°C max operating temperature, 125°C	Accelerated DC Voltage Life Test: 1,000 Hours, 85°C, 1.25 x Rated VDC $\Delta C/C \leq 5\%$ DF $\leq 1.0\%$, 1KHz, 25°C IR $\geq 1,000$ Megohm x μF Need not exceed 1,000 Megohms Moisture Test: 85°C / 85% RH / 21 days Applied Voltage: zero bias $\Delta C/C \leq 7\%$ DF $\leq 1.0\%$, 1KHz, 25°C IR $\geq 30\%$ of initial limit Long Term Stability: After 2 years storage, standard environment $\Delta C/C \leq 2\%$	Vibration: Mil Std 202 Method 204D Solder Resistance: Thru-hole wave: 260°C, 5 Sec. $\Delta C/C \leq 2\%$ SMD reflow: 220°C, 30 Sec. $\Delta C/C \leq 2\%$ Construction: Non-inductively constructed with metallized polyester dielectric (polyethylene terephthalate). Parallel plate-multilayer polymer (MLP) design. Electrode: Aluminum metallization Case: UL94V-0 rated epoxy coating Lead-Frame Material: Tinned Cu Alloy Lead-Frame Lead Spacing: 1.1" (27.5mm) spacing nominal 7 leads per side Marking: +P+ type, capacitance code, tolerance code, voltage and date code Packaging: Anti-static tube. SMD units are dry-packed with desiccant in a moisture barrier bag (MBB). Moisture Sensitivity Level (MSL): 4 per IPC/JEDEC J-STD-020; level indicated on package.

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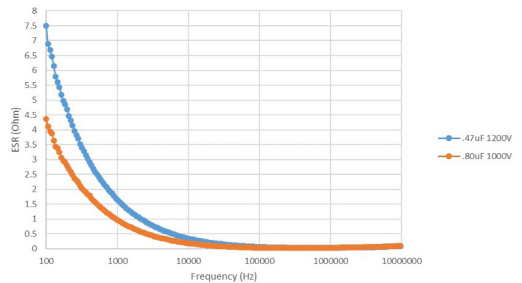
CS11

Electrical Characteristics 1000 VDC and 1200 VDC Ratings

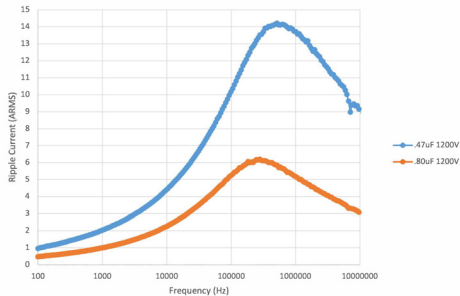
Impedance Vs Frequency



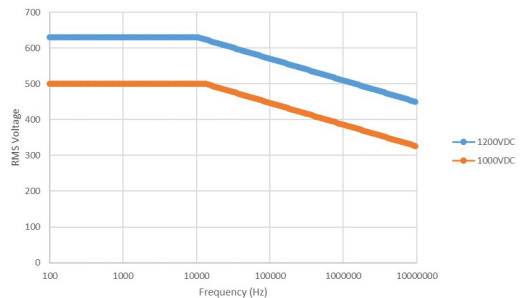
ESR Vs Frequency



Ripple Current Limit Vs Frequency -55 to +85C



Maximum RMS Voltage Vs Frequency



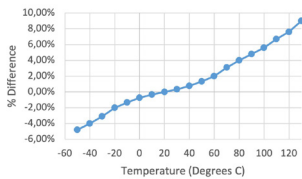
Test data is for 1200 VDC and 1000 VDC ratings only, and unless specified otherwise, all temperature and voltage tests were performed at 1kHz and all frequency tests performed at 25C°.

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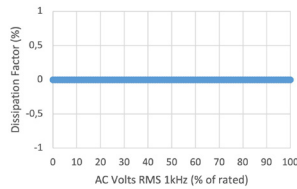
CS11

Electrical Characteristics

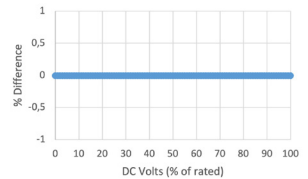
Capacitance Change (%) Vs. Temperature



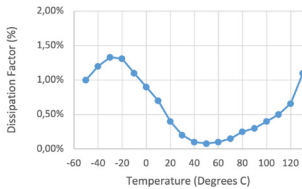
D.F. (%) Vs. AC Volts



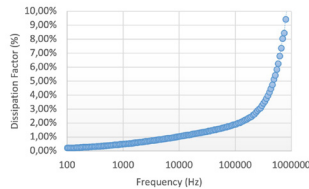
Capacitance Change (%) Vs. DC Bias Voltage



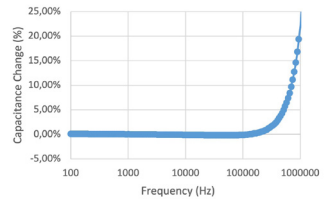
D.F. Vs. Temperature



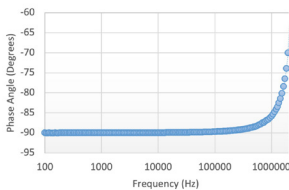
D.F. Vs. Frequency



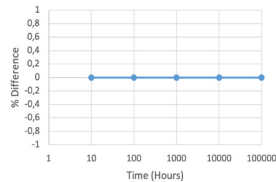
Capacitance (%) Vs. Frequency



Phase Angle Vs. Frequency



Capacitance Change (%) Vs. Time



Test data is for 1200 VDC and 1000 VDC ratings only, and unless specified otherwise, all temperature and voltage tests were performed at 1kHz and all frequency tests performed at 25°C.

Evans **Trusted Brands. Single Source.**
GROUP **Hi-Rel Capacitors for Mission Critical Systems.**

Uniting four industry leaders—Evans, Paktron, UTC, and Eulex—Evans Group delivers the industry's most specialized and comprehensive capacitor portfolio. Together, we provide power-dense, high-reliability solutions engineered for mission-critical environments across defense, aerospace, energy, and advanced RF systems.

Paktron
1205 McConville Road Lynchburg, VA 24504

T +1 434.239.6941
E paktron@evans-group.com
URL www.evans-group.com/paktron