Evans GROUP
PAKTRON

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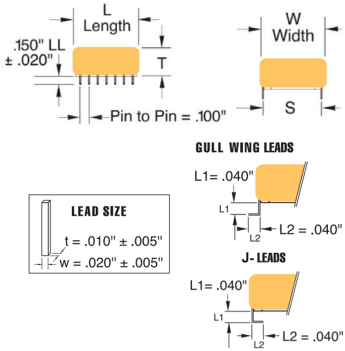
paktron@evans-group.com

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±.02 [.5]	Typical ESR 500kHz mΩ	Max Ripple current 85C° 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 (±10%) standard, J (±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

Tolerance:
Available in ± 5%, 10% (standard), 20%

Voltage Range:
1000, 1200 VDC

Dissipation Factor:
≤1.0 % @ 25°C, 1KHz

Insulation Resistance:
1000ΩF 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

Performance

Accelerated DC Voltage Life Test:
1,000 Hours, 85°C, 1.25 × Rated VDC
Δ C/C ≤ 5%
DF ≤ 1.0%, 1KHz, 25°C
IR ≥ 1,000 Megohm x µF
Need not exceed 1,000 Megohms

Moisture Test:
85°C / 85% RH / 21 days Applied Voltage:
zero bias Δ C/C ≤ 7%
DF ≤ 1.0%, 1KHz, 25°C
IR ≥ 30% of initial limit

Long Term Stability:
After 2 years storage, standard environment
Δ C/C ≤ 2%

Physical

Vibration:
Mil Std 202 Method 204D

Solder Resistance:
Thru-hole wave: 260°C, 5 Sec. Δ C/C ≤ 2%
SMD reflow: 220°C, 30 Sec. Δ C/C 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:
ǂPǂ 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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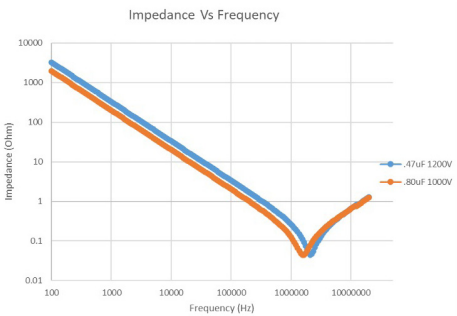
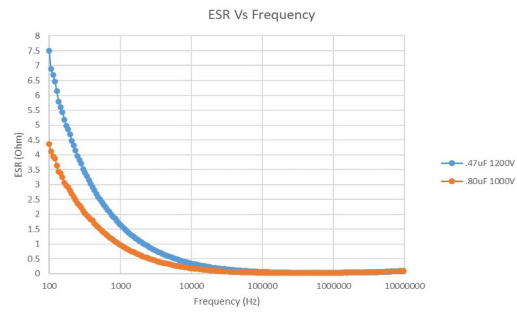
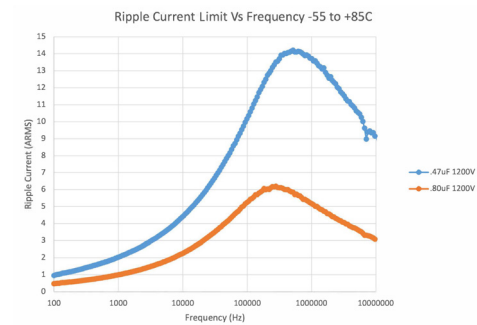
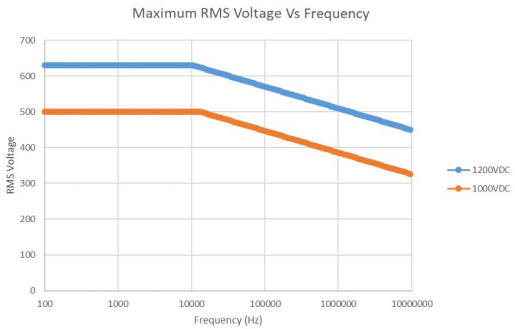
Electrical Characteristics
1000 VDC and 1200 VDC Ratings









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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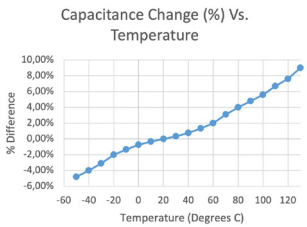
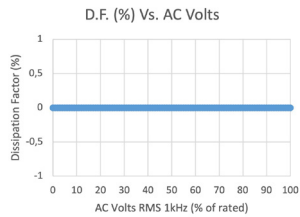
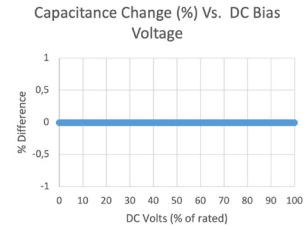
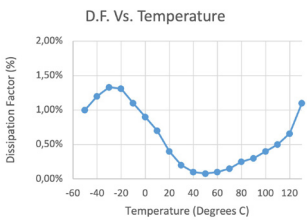
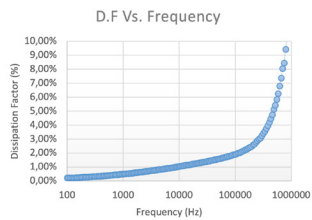
Electrical Characteristics

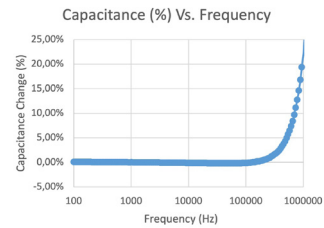


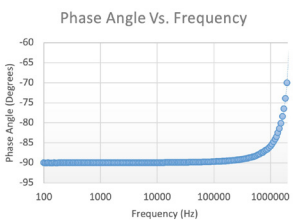


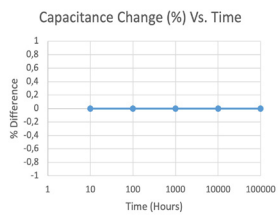












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