Evans GROUP
PAKTRON

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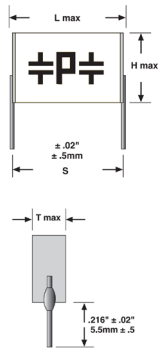
paktron@evans-group.com

Angstor® Capacitor
Metallized Polymer Dielectric

# RC

Stacked Metallized polymer capacitor

With -55 to +150C operating temperature range




- Highest ripple current x C°V ratings in the industry
- Novel dielectric material: Ultra-low D.F, high operating temperature, self-healing properties
- Ultra-low ESR/ESL
- Lightweight <25% of equivalent MLCC
- Low losses at high frequency
- Excellent for resonant circuits
- High dv/dt
- Efficient size
- Rugged construction
- Made in U.S.A.

## 200 VDC / 140 VAC

| PF Code | Value µF | L MAX | T MAX | H MAX | S±.02 (.5) | d | Typical dv/dt (V/µs) | Typical ESR 500khz mOhm | Max Ripple current 85C 500kHz (ARMS) | SRF (MHz) | Part Number |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 844 | 0.84 | 0.650 (16.5) | 0.290 (7.4) | 0.440 (11.1) | 0.591 (15) | 0.032 (.8) | 35 | 17 | 6.1 | 1.75 | 844K200RC6 _ _ |

## 400 VDC / 280 VAC

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 424 | 0.42 | 0.650 (16.5) | 0.290 (7.4) | 0.440 (11.1) | 0.591 (15) | 0.032 (.8) | 120 | 13 | 5.4 | 2.5 | 424K400RC6 _ _ |

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

**Capacitance Range:**
.42 to .84 µF @ 1KHz

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

**Voltage Range:**
200, 400 VDC

**Dissipation Factor:**
≤ 0.1 % @ 25°C, 1KHz

**Insulation Resistance:**
100ΩF or 10GΩ, whichever is less at Rated voltage and 25C

**Dielectric Strength:**
1.3 x RVDC, 2 seconds max.

**Self Inductance:**
2 to 6nh typical

**Temperature Range:**
-55°C to 150°C operating
-55°C to 105°C @ rated DC voltage
derate voltage 1.66% / °C above 105°C
max operating temperature; 150C

## 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 ≤ 0.1%, 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:
260°C, 5 Sec. Δ C/C ≤ 2%

**Construction:**
Non-inductively constructed with metallized polymer dielectric. Parallel plate-multilayer polymer (MLP) design.

**Electrode:**
Aluminum metallization

**Case:**
polymer tape wrap

**Marking:**
Parts are continuously marked ⨦P⨦ and pf code. Capacitance, tolerance and working voltage are printed on container.

**Packaging:**
Bulk Packaging Standard

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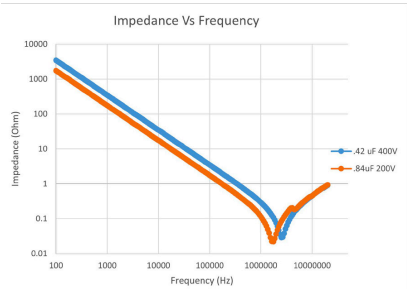
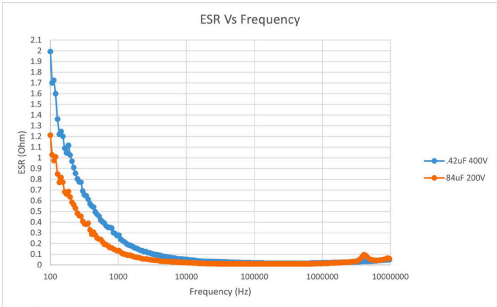
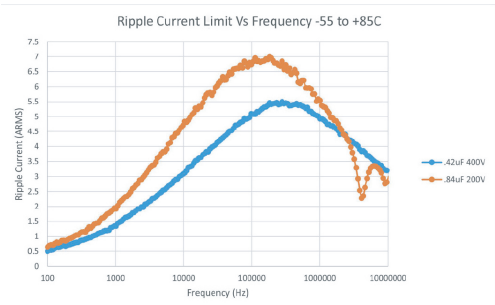
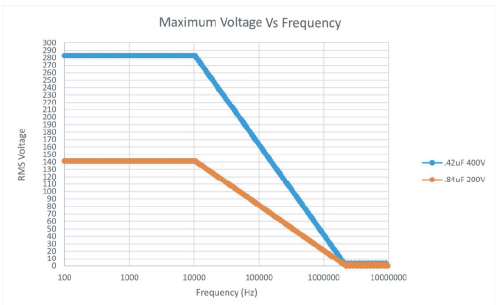
# Electrical Characteristics



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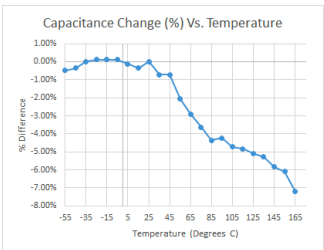
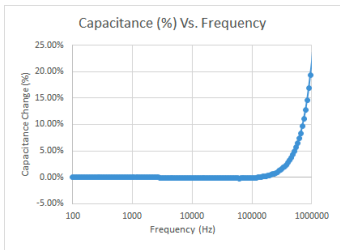
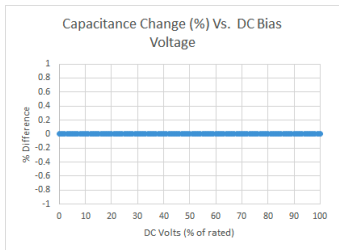
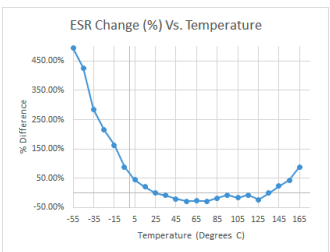
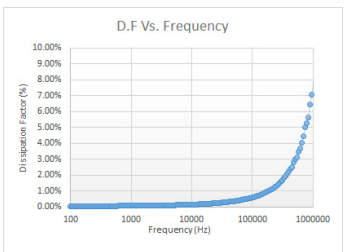
# Electrical Characteristics
## for 200V and 400V Ratings

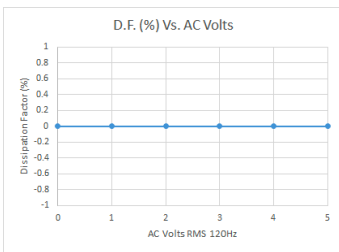


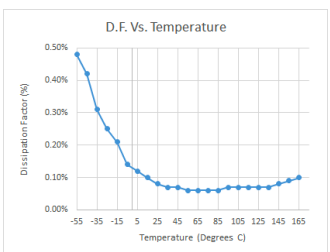



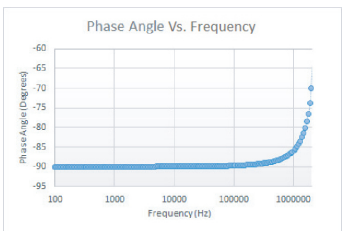



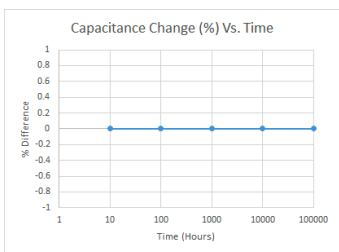






**Paktron**
1205 McConville Road Lynchburg, VA 24504

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