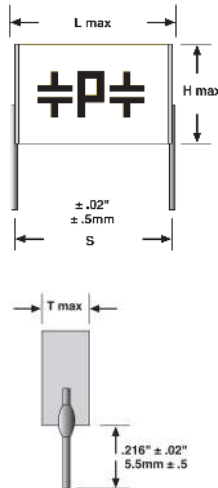


Angstor® Capacitor  
Metallized Polymer Dielectric

# 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

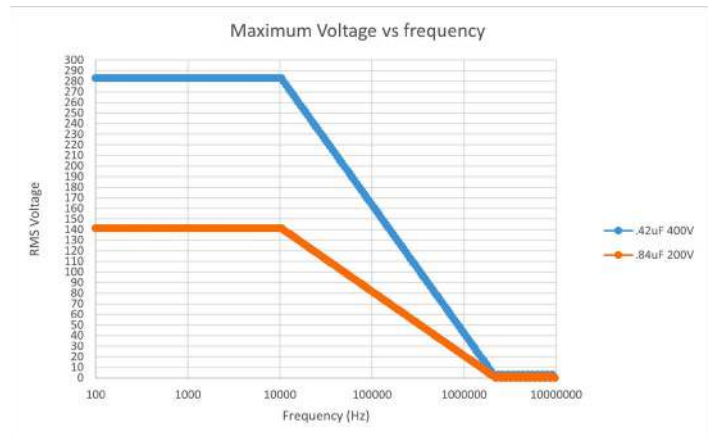
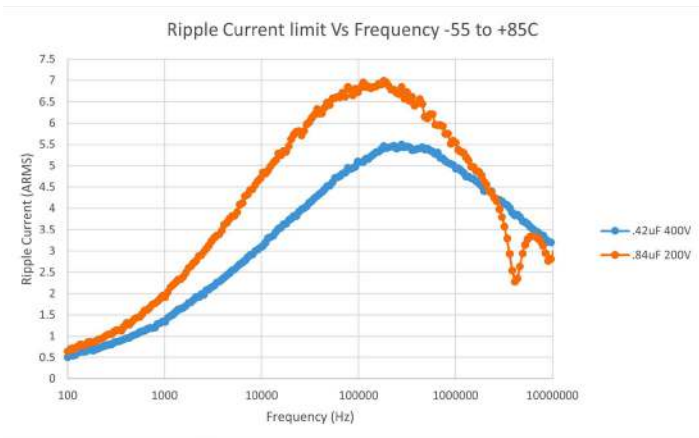
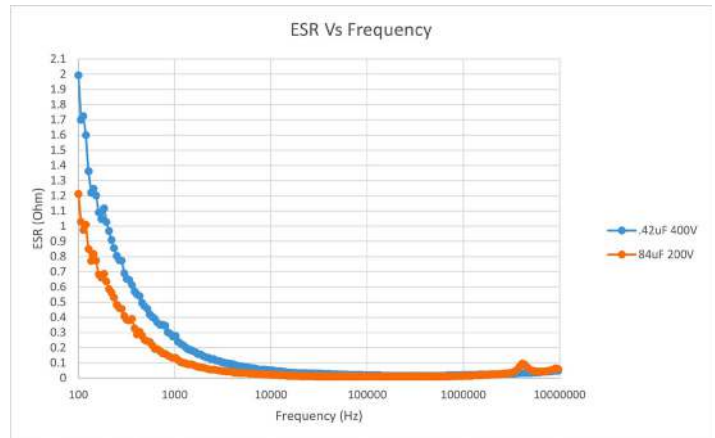
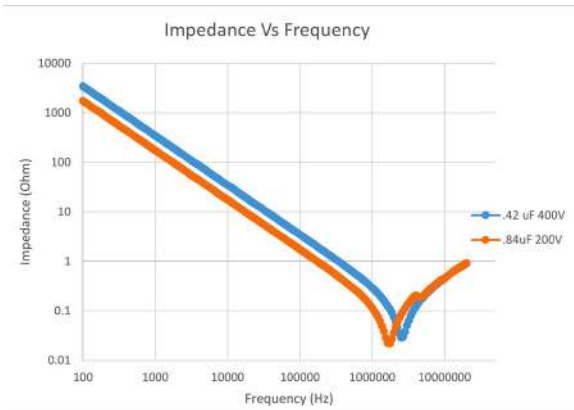
For a RoHS-6 compliant part, add a -FA suffix. RoHS-6 product does not contain any of the six RoHS banned materials (Hg, CrVI, Cd, PBB, PBDE and Pb) in levels exceeding the industry defined limits. Component lead wires are plated with Sn.

Electrical	Performance	Physical
<p><b>Capacitance Range:</b> .42 to .84 µF @ 1KHz</p> <p><b>Tolerance:</b> Available in ± 5%, 10% [standard], 20%</p> <p><b>Voltage Range:</b> 200, 400 VDC</p> <p><b>Dissipation Factor:</b> ≤ 0.1 % @ 25°C, 1KHz</p> <p><b>Insulation Resistance:</b> 100ΩF or 10GΩ, whichever is less at Rated voltage and 25C</p> <p><b>Dielectric Strength:</b> 1.3 x RVDC, 2 seconds max.</p> <p><b>Self Inductance:</b> 2 to 6nh typical</p> <p><b>Temperature Range:</b> -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</p>	<p><b>Accelerated DC Voltage Life Test:</b> 1,000 Hours, 85°C, 1.25 x Rated VDC Δ C/C ≤ 5% DF ≤ 1.0%, 1KHz, 25°C IR ≥ 1,000 Megohm x µF Need not exceed 1,000 Megohms</p> <p><b>Moisture Test:</b> 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</p> <p><b>Long Term Stability:</b> After 2 years storage, standard environment Δ C/C ≤ 2%</p>	<p><b>Vibration:</b> Mil Std 202 Method 204D Solder Resistance: 260°C, 5 Sec. Δ C/C ≤ 2%</p> <p><b>Construction:</b> Non-inductively constructed with metallized polymer dielectric. Parallel plate-multilayer polymer (MLP) design.</p> <p><b>Electrode:</b> Aluminum metallization</p> <p><b>Case:</b> polymer tape wrap</p> <p><b>Marking:</b> Parts are continuously marked <b>±P±</b> and pf code. Capacitance, tolerance and working voltage are printed on container.</p> <p><b>Packaging:</b> Bulk Packaging Standard</p>

Angstor® Capacitor  
Metallized Polymer Dielectric

RC

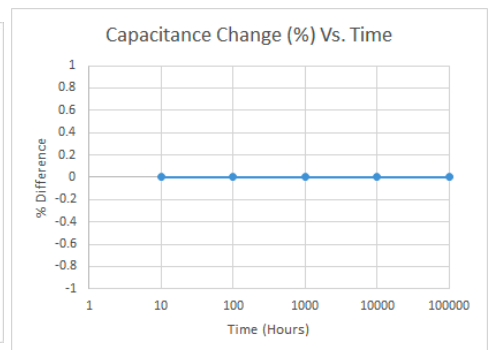
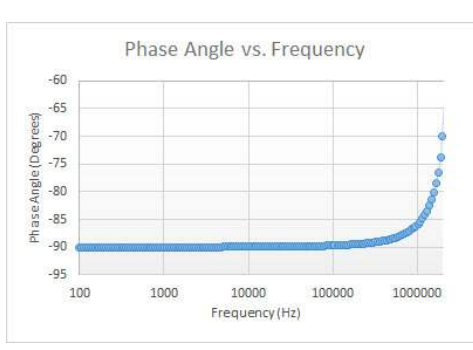
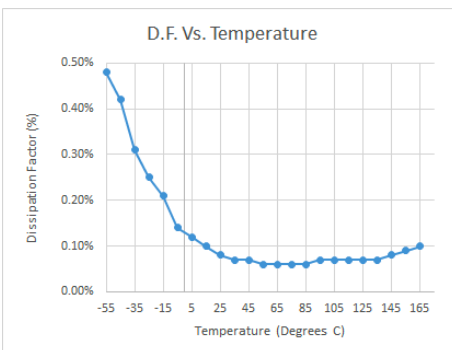
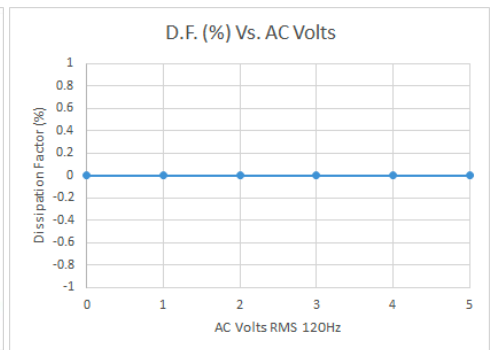
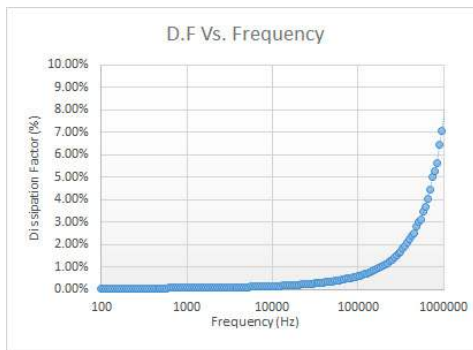
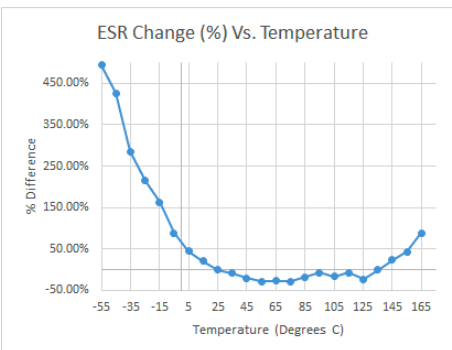
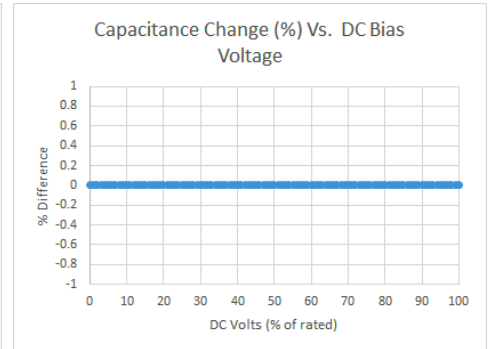
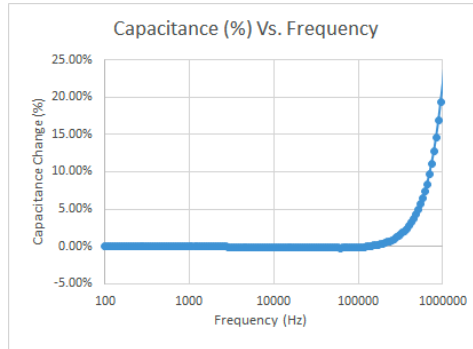
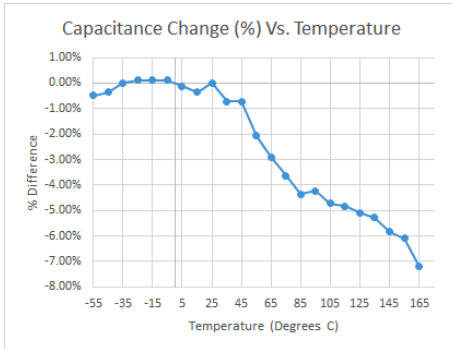
# Electrical Characteristics



Angstor® Capacitor  
 Metallized Polymer Dielectric

# RC

## Electrical Characteristics for 200V and 400V Ratings



### Quantic Paktron

1205 McConville Road  
 Lynchburg, VA 24502  
 USA

**TEL** 434.239.6941

**EMAIL** [info@quanticpaktron.com](mailto:info@quanticpaktron.com)

**URL** [quanticpaktron.com](http://quanticpaktron.com)