

# Capacitors for AC and DC General Purpose Applications

#### Proven EIA-456-A Compliant 60,000 Hour Reliability Industry Standard



A Regal Brand



www.regalbeloit.com

### **Capacitor Application Data Sheet**

To ensure correct selection of a capacitor for your application, please provide the information indicated below. This sheet may be duplicated or additional copies may be obtained from RBC.

Of particular importance are the voltages and current waveforms complete with values of voltage and current over a complete cycle. Send this data to your local RBC Sales Representative or directly to:

#### **Genteq Capacitors**

1325 Heil Quaker Blvd. LAVERGNE, TN 37086

 Phone:
 800-672-6495

 Fax:
 800-468-2062

 Email:
 capacitors@regalbeloit.com

#### **PRIMARY INFORMATION (Essential)**

1.	Application:	
2.	Capacitance:Tolerance:	
3.	Peak Voltage:RMS Voltage:	
4.	Peak Current:RMS Current:	
5.	Transient Voltage:Duration:Freq. Of C	Occurrence:
6.	Frequency or Repetition Rate (Hz):Duty Cyc	le:
7.	Ambient Temperature:Max.:Min.:_	
8.	Capacitor Charge Time:Discharge Time:	
9.	Required Operating Life (Hours):	
10.	Waveforms:	
	+	_
	Voltage 0	Time
	- 1	
	+ Current 0	Time
SECO	NDARY INFORMATION (Provide as Appropriate)	
11.	Physical Size Limitations:	
12.	Mounting Requirements:	
13.	Applicable Specifications:	
14.	Type of Cooling Available:	
15.	Unusual Atmospheric Conditions:	
16.		
17.		
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### Genteq Capacitors Capacitors for General Purpose Applications

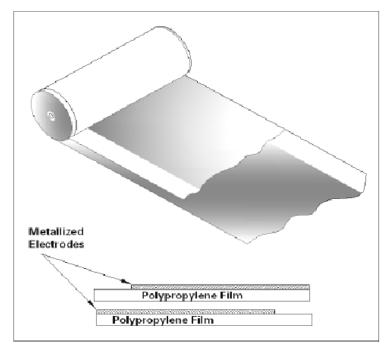
Metallized film capacitors are unsurpassed in terms of size, weight, performance, and reliability for AC applications. Regal-Beloit brings over 60 year of capacitor manufacturing experience to the product lines described in this publication. These capacitors represent the best in product design for long-term reliability and safe operation. Regal-Beloit's materials, product, and process development work continue to provide capacitor users with outstanding total value.

The specific products in this bulletin are aimed at market / application segments for General Purpose, Power Supply, and Electronic Power Conversion.

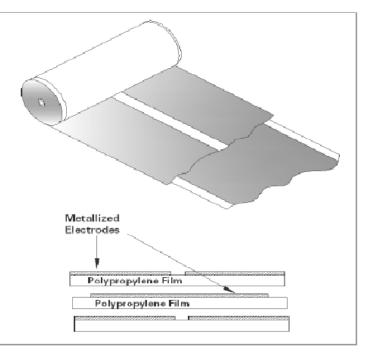
The GEM III General Purpose Capacitors are used for filtering on a wide variety of light industrial equipment. The conversion of electrical power and uninterruptible power supplies and drive control systems requires filter capacitors. An application note is included to help customers in the correct choice and use of these capacitors.



**GEM III** Construction



### **GEM III Series Construction**



Regal-Beloit's GEM III capacitors are manufactured with high-grade metallized polypropylene film. This film is in the range of 5 to 10 microns thick, depending on the application, voltage, and conditions. The metallized electrode is several hundred angstroms thick.

The film is wound into capacitor rolls on high-speed, highprecision machines. The winding is extremely tight so that there is not enough space between the layers for corona (localized partial electrical discharges) to occur. The rolls are sprayed on both ends with metal to make the connection to the extremely thin edges of the metallized electrodes. This process is critical to the quality and performance of the capacitors.

The rolls are assembled in metal cases, Regal-Beloit's proprietary dielectric liquid is introduced under vacuum, and the capacitors are sealed. They are then subjected to 100% electrical testing for capacitance, dissipation factor, and high potential electrical withstand, both terminal-to-terminal and terminal-to-case.



### **Product Safety**

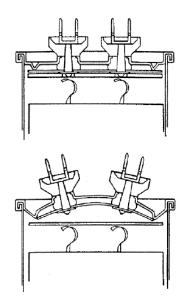
### **Pressure Sensitive Interrupter**

All the capacitors listed in this publication contain Regal-Beloit's Pressure Sensitive Interrupter (PSI). This device, developed by GE, is designed to sense the build-up of pressure within the capacitor if a fault occurs and to interrupt the internal electrical connections before the case can rupture.

The PSI carries U.L.\* recognition for applications where the specified fault currents are not exceeded. The fault current is the maximum current that is available from the circuit to flow through the capacitor if the capacitor were to become a short circuit with zero impedance. It is the responsibility of the capacitor user to determine what the available fault current is for a particular application.

In the Catalog Number listings a four character U.L. Code, Pxxx, is given. This number is part of the listing for Regal-Beloit in U.L. File No. E322597. When applying to U.L. for approvals or recognition of equipment using these capacitors refer to the Pxxx number and not the Catalog Number of the capacitor in question.

Proper operation of the PSI requires that the cover be able to expand without restriction. The following mounting considerations should be noted in mounting the these capacitors.



\*Underwriter's Laboratory

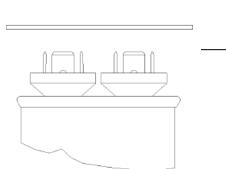


### **Mounting Considerations**

#### Vertical Clearance

**Product Safety** 

There must be sufficient clearance between the tops of the terminals (and/or the assembled wire connectors) and a plane perpendicular to the capacitor terminals. This clearance must be at least 0.5 inches plus the electrical spacing requirements of the end application.



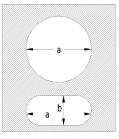
0.5" min. plus end application spacing

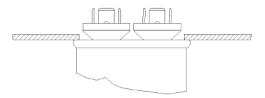
Case Style	a	b
А	2.00	1.00
В	2.25	1.25
С	2.50	1.62
D	3.25	1.62

Case Style	a
Р	1.62
S	1.88
Т	2.38

#### Cut-Out Clearance

In certain instances, capacitors are mounted with the top of the capacitors case resting against the chassis and the terminals protruding through the chassis. Care must be taken to see that the cutout in the chassis is large enough. The following dimensions are recommended.







### Gen Purpose AC Capacitors – GEM III 240 & 370 VAC

This series of GEM III is **designed specifically for applications such as AC filters where harmonic frequencies greater than 60Hz are common**. Application Data is provided starting on page 9 that gives the Equivalent Series Resistance (ESR) for these units. This allows the user to calculate the losses for each design / application and to ensure that they are kept within the permissible limits. Any questions regarding the suitability of a capacitor for a particular application may be referred to Regal-Beloit Engineers by **contacting your Regal-Beloit sales representative**.

#### **SPECIFICATIONS:**

Available Capacitance Range:	2 to 120µF				
Capacitance Tolerance:	±6%				
Capacitance Variation with Temperature:	See Chart E-3 on page 13.				
Rated Voltage:	See Rating Tables. Rating is the 60Hz RMS voltage for a sinusoidal waveform. For other waveforms refer to the Application Note on page 9.				
Leakage Current:	30µA maximum				
Frequency:	50/60 Hz. For higher frequencies refer to the Application Note on page 10.				
Operating Temperature:	-40°C to +70°C				
Storage Temperature:	-40°C to +90°C				
Operating Life:	60,000 hours with 94% survival (In accordance with the EIA-456 Industry Standard)				
Dissipation Factor:	0.1% maximum				
Case Material/Finish:	Unpainted Aluminum Case, Tin Plated Steel Cover.				
Terminations:	'Combo' terminal: 0.250" x 0.031" quick connect blades				
Dielectric Fluid:	Proprietary Genteq dielectric oil				
Internal Protection:	UL recognized Pressure Sensitive Interrupter. See Ratings Table for Regal-Beloit's UL Code Number listed under Regal-Beloit's UL File E322597. For UL submittals				
Case Style RBC Code Generic UL Code	with these capacitors, use the RBC 'Pxxx' number not the				
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	rating is given below. All these capacitors are capable of				



Т

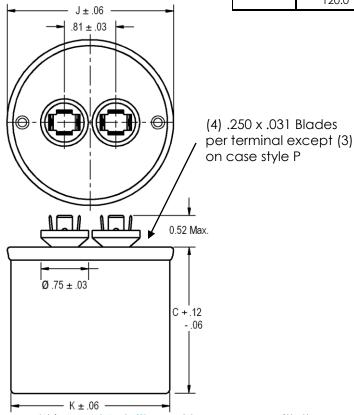
P969

T10000AFC

### Gen Purpose AC Capacitors – GEM III Single Ratings – 1 Section

Voltage	Capacitance	Catalog	Case	Base	Can	Height	UL
(VAC)	(µF)	Number	Style	Size (in.)	Туре	C (in.)	Code
	15.0	97F8036	Р	1.75	Round	2.88	P965
	25.0	97F8037	Р	1.75	Round	2.88	P965
	30.0	97F8038	Р	1.75	Round	3.88	P965
	35.0	97F8039	Р	1.75	Round	3.88	P965
	40.0	97F8040	Р	1.75	Round	3.88	P965
	45.0	97F8041	Р	1.75	Round	4.75	P965
	50.0	97F8042	Р	1.75	Round	4.75	P965
	55.0	97F8043	Р	1.75	Round	4.75	P965
240	60.0	97F8044	S	2.00	Round	4.75	P968
5	65.0	97F8045	S	2.00	Round	4.75	P968
	70.0	97F8046	S	2.00	Round	4.75	P968
	75.0	97F8047	S	2.00	Round	4.75	P968
	80.0	97F8048	Т	2.50	Round	3.88	P969
	85.0	97F8049	Т	2.50	Round	3.88	P969
	90.0	97F8050	Т	2.50	Round	3.88	P969
	95.0	97F8051	Т	2.50	Round	4.75	P969
	100.0	97F8052	Т	2.50	Round	4.75	P969
	120.0	97F8053	Т	2.50	Round	4.75	P969

#### Case Style P, S, and T



Case Style	K	J
Р	1.75	1.88
S	2.00	2.12
Т	2.50	2.62

\*It is **Regal-Beloit's goal** to serve you with the **most cost effective** and **highest quality capacitor** designs. Standardization to the catalog type shown is a major program at Regal-Beloit. However, Regal-Beloit remains sensitive to your needs and requirements, and **will continue to offer the above ratings (and more) in case configurations to meet your application(s).** 

⇒genteq<sup>®</sup>

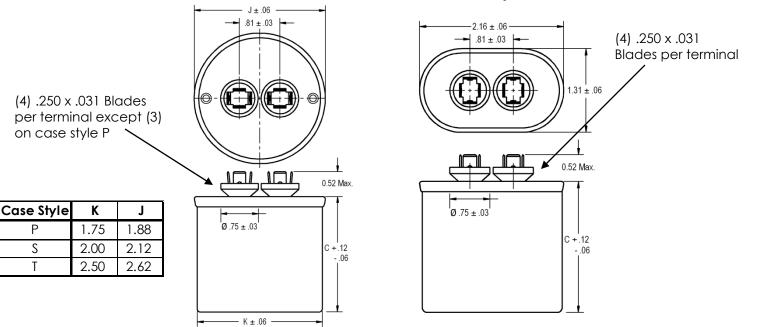
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### Gen Purpose AC Capacitors – GEM III Single Ratings – 1 Section

Voltage	Capacitance	Catalog	Case	Base	Can	Height	UL
(VAC)	(μF)	Number	Style	Size (in.)	Туре	C (in.)	Code
	3.0	97F8054	А	1.25	Oval	2.12	P921
	4.0	97F8055	А	1.25	Oval	2.12	P921
	5.0	97F8056	А	1.25	Oval	2.88	P921
	6.0	97F8057	А	1.25	Oval	2.88	P921
	7.5	97F8058	А	1.25	Oval	2.88	P921
	10.0	97F8059	А	1.25	Oval	3.88	P921
	12.5	97F8060	А	1.25	Oval	3.88	P921
	15.0	97F8061	Р	1.75	Round	2.88	P965
	17.5	97F8062	Р	1.75	Round	2.88	P965
370	20.0	97F8063	Р	1.75	Round	3.88	P965
3	25.0	97F8064	Р	1.75	Round	3.88	P965
	30.0	97F8065	Р	1.75	Round	3.88	P965
	35.0	97F8066	Р	1.75	Round	4.75	P965
	40.0	97F8067	Р	1.75	Round	4.75	P965
	45.0	97F8068	S	2.00	Round	4.75	P968
	50.0	97F8069	S	2.00	Round	4.75	P968
	55.0	97F8070	S	2.00	Round	4.75	P968
	60.0	97F8071	Т	2.50	Round	3.88	P969
	65.0	97F8072	Т	2.50	Round	3.88	P969
	70.0	97F8073	Т	2.50	Round	4.75	P969

#### Case Style P, S, and T

Case Style A



\*It is **Regal-Beloit's goal** to serve you with the **most cost effective** and **highest quality capacitor** designs. Standardization to the catalog type shown is a major program at Regal-Beloit. However, Regal-Beloit remains sensitive to your needs and requirements, and will continue to offer the above ratings (and more) in case configurations to meet your application(s).



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Ρ

S

Т

### Gen Purpose AC Capacitors – GEM III Application Notes – 97F8000 Series – 240 & 370 VAC

ESR Values for 97F8000 Series – Curve Numbers refer to Graphs on Page 10.

Voltage	Catalog	Capacitance	ESR	Curve
(VAC)	Number	(μF)	(ohms)	Number
	97F8036	15.0	0.0257	2
	97F8037	25.0	0.0180	2
	97F8038	30.0	0.0228	3
	97F8039	35.0	0.0206	3
	97F8040	40.0	0.0190	3
	97F8041	45.0	0.0241	4
	97F8042	50.0	0.0226	4
	97F8043	55.0	0.0213	4
9	97F8044	60.0	0.0215	5
240	97F8045	65.0	0.0206	5
	97F8046	70.0	0.0198	5
	97F8047	75.0	0.0191	5
	97F8048	80.0	0.0164	5
	97F8049	85.0	0.0160	5
	97F8050	90.0	0.0156	5
	97F8051	95.0	0.0193	6
	97F8052	100.0	0.0189	6
	97F8053	120.0	0.0176	6

Voltage	Catalog	Capacitance	ESR	Curve
(VAC)	Number	(µF)	(ohms)	Number
	97F8054	3.0	0.0700	1
	97F8055	4.0	0.0539	1
	97F8056	5.0	0.0586	2
	97F8057	6.0	0.0499	2
	97F8058	7.5	0.0411	2
	97F8059	10.0	0.0471	3
	97F8060	12.5	0.0392	3
	97F8061	15.0	0.0244	2
	97F8062	17.5	0.0218	2
370	97F8063	20.0	0.0281	3
3.	97F8064	25.0	0.0240	3
	97F8065	30.0	0.0213	3
	97F8066	35.0	0.0262	4
	97F8067	40.0	0.0240	4
	97F8068	45.0	0.0235	5
	97F8069	50.0	0.0222	5
	97F8070	55.0	0.0210	5
	97F8071	60.0	0.0175	5
	97F8072	65.0	0.0169	5
	97F8073	70.0	0.0207	6

The 97F8000 Series of capacitors may be used in AC applications where the voltage waveform is nonsinusoidal. This Application Note is provided to assist in the correct use of the capacitors where higher frequency harmonic currents are present. If you need further assistance please contact Regal-Beloit's Capacitors Operation through your normal sales channel.

Higher frequency currents are commonly encountered in the filter circuits of Static Power Converters. These frequencies range from 180 to 1500 Hz for a 60 Hz system in various combinations of the odd harmonics depending on the type of converter. Generally, there are not significant harmonic currents above the 25<sup>th</sup> harmonic.

These capacitors can carry a total current of up to 15 amperes RMS (fundamental plus harmonics). The Equivalent Series Resistance (ERS) for each Catalog Number is shown in the ESR tables on this page. This value may be used to calculate the expected watts loss for a particular application. The user must determine the total RMS current (fundamental plus harmonics) for the application. The watts loss is then calculated using the equation:  $W=I^2 \times ESR$  I = Total RMS current ESR = Value from ESR Tables

The calculated watts from this equation must not exceed the allowable watts loss shown on the curve corresponding to the particular capacitor. Two sets of curves are shown, one for natural circulation and one for forced air circulation.

#### NOTES:

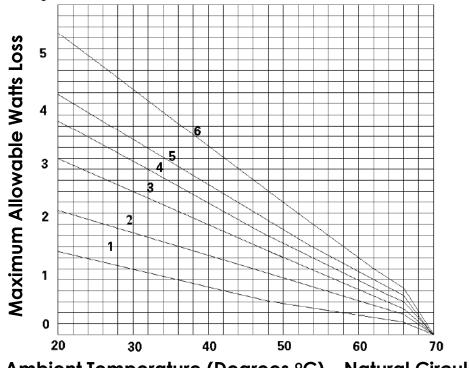
(1) In no case should the total RMS current of 15 amperes be exceeded for any of these capacitors

(2) Running the capacitors at case temperatures above 70°C will have a significant effect on expected life. (See chart G-1 on page 11).

(3) Running the capacitors at voltages above the nominal rated voltage will also results in significantly reduced life. (See chart G-2 on page 12).

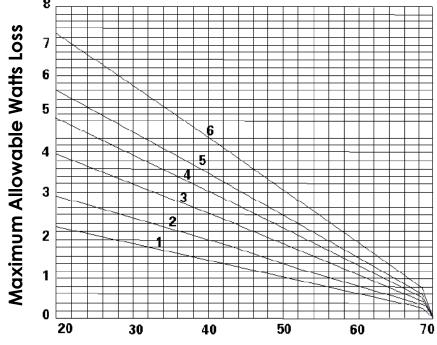


### **ALLOWABLE WATTS LOSS – Natural Circulation**



Ambient Temperature (Degrees °C) – Natural Circulation



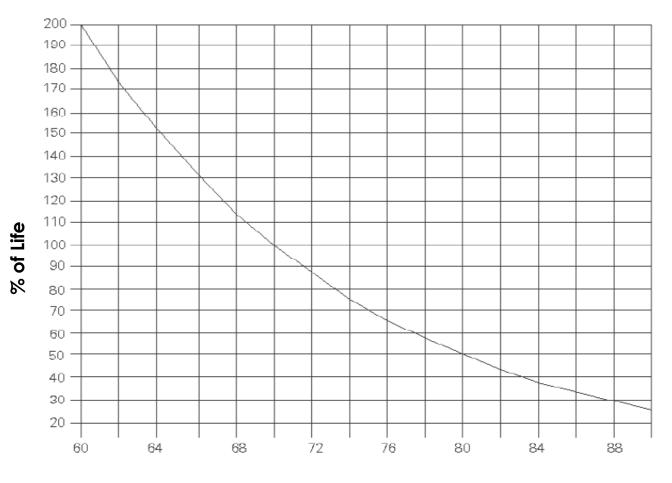


Ambient Temperature (Degrees °C) – Forced Circulation



### LIFE vs. TEMPERATURE

CHART G-1

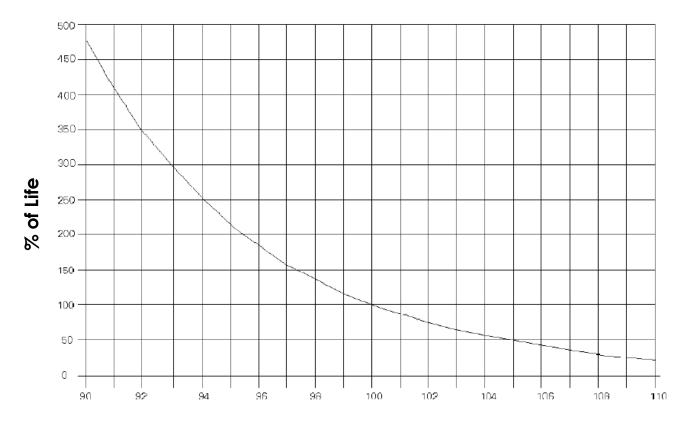


Temperature (Degrees °C)



## LIFE vs. VOLTAGE

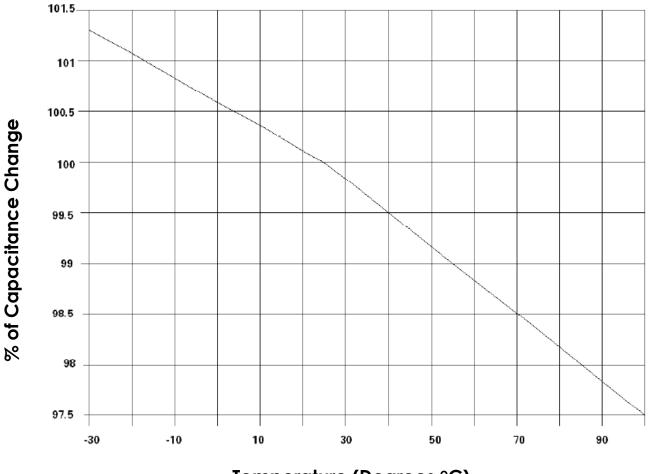
CHART G-2



% of Rated Voltage



## % CAPACITANCE vs. TEMPERATURE



**CHART E-3** 

Temperature (Degrees °C)

⇒genteq<sup>®</sup>

### Gen Purpose AC Capacitors – GEM III 600 VAC

This series of GEM III is **designed specifically for general purpose AC applications in power supplies**, **UPS**, **and power conversion equipment**. Application Data is provided starting on page 16 that gives the Equivalent Series Resistance (ESR) for each unit. This allows the user to calculate the losses for each design / application and to ensure that they are kept within the permissible limits. Any questions regarding the suitability of a capacitor for a particular application may be referred to Regal-Beloit Engineers by contacting your Regal-Beloit sales representative.

#### **SPECIFICATIONS:**

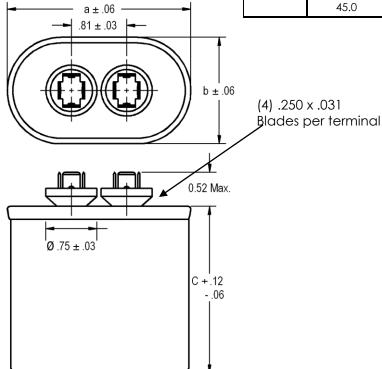
Capacitance Tolerance:±6%Capacitance Variation with Temperature:See Chart E-3 on page 20.Rated Voltage:See Rating Tables. Rating is the 60Hz RMS voltage for a sinusoidal waveform. For other waveforms refer to the Application Note on page 16.Leakage Current:30µA maximumFrequency:50/60 Hz. For higher frequencies refer to the Application Note on page 17.Operating Temperature:-40°C to +70°CStorage Temperature:-40°C to +90°COperating Life:60,000 hours with 94% survival (In accordance with the EIA-456 Industry Standard)Dissipation Factor:0.1% maximumCase Material/Finish:Unpainted Aluminum Case, Tin Plated Steel Cover. Contact Regal-Beloit if material/finish to meet UL outdoor standards is required.Dielectric Fluid:Proprietary Genteq dielectric oilInternal Protection:UL recognized Pressure Sensitive Interrupter. See Ratings Table for Regal-Beloit's UL Code Number listed under Regal-Beloit's UL File E322597. For UL submittals with these capacitors, use the RBC 'Pxxx' number not the Catalog Number. The corresponding generic UL designation that includes the Available Faults Current (AFC)	Available Capacitance Range:	1.5 to 45µF				
Capacitance Variation with Temperature:See Chart E-3 on page 20.Rated Voltage:See Rating Tables. Rating is the 60Hz RMS voltage for a sinusoidal waveform. For other waveforms refer to the Application Note on page 16.Leakage Current:30µA maximumFrequency:50/60 Hz. For higher frequencies refer to the Application Note on page 17.Operating Temperature:-40°C to +70°CStorage Temperature:-40°C to +90°COperating Life:60,000 hours with 94% survival (In accordance with the EIA-456 Industry Standard)Dissipation Factor:0.1% maximumCase Material/Finish:Unpainted Aluminum Case, Tin Plated Steel Cover. Contact Regal-Beloit if material/finish to meet UL outdoor standards is required.Dielectric Fluid:Proprietary Genteq dielectric oilInternal Protection:UL recognized Pressure Sensitive Interrupter. See Ratings Table for Regal-Beloit's UL Code Number listed under Regal-Beloit's UL Code Number listed under Regal-Beloit's UL File E322597. For UL submittals with these capacitors, use the RRG Press' number not the Catolog Number. The corresponding generic UL designation that includes the Available Faults Current (AFC)						
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Note on page 17.Operating Temperature:-40°C to +70°CStorage Temperature:-40°C to +90°COperating Life:60,000 hours with 94% survival (In accordance with the EIA-456 Industry Standard)Dissipation Factor:0.1% maximumCase Material/Finish:Unpainted Aluminum Case, Tin Plated Steel Cover. Contact Regal-Beloit if material/finish to meet UL outdoor standards is required.Terminations:'Combo' terminal: 0.250" x 0.031" quick connect bladesDielectric Fluid:Proprietary Genteq dielectric oilInternal Protection:UL recognized Pressure Sensitive Interrupter. See Ratings Table for Regal-Beloit's UL Code Number listed under Regal-Beloit's UL Code Number listed under Regal-Beloit's UL Code Number listed with these capacitors, use the RBC 'Pxxx' number not the Catalog Number. The corresponding generic UL designation that includes the Available Faults Current (AFC)	Leakage Current:	30µA maximum				
Storage Temperature:-40°C to +90°COperating Life:60,000 hours with 94% survival (In accordance with the EIA-456 Industry Standard)Dissipation Factor:0.1% maximumCase Material/Finish:Unpainted Aluminum Case, Tin Plated Steel Cover. Contact Regal-Beloit if material/finish to meet UL outdoor standards is required.Terminations:'Combo' terminal: 0.250" x 0.031" quick connect bladesDielectric Fluid:Proprietary Genteq dielectric oilInternal Protection:UL recognized Pressure Sensitive Interrupter. See Ratings Table for Regal-Beloit's UL Code Number listed under Regal-Beloit's UL File E322597. For UL submittals with these capacitors, use the RBC 'Pxxx' number not the Catalog Number. The corresponding generic UL designation that includes the Available Faults Current (AFC)	Frequency:					
Operating Life:60,000 hours with 94% survival (In accordance with the EIA-456 Industry Standard)Dissipation Factor:0.1% maximumCase Material/Finish:Unpainted Aluminum Case, Tin Plated Steel Cover. Contact Regal-Beloit if material/finish to meet UL outdoor standards is required.Terminations:'Combo' terminal: 0.250" x 0.031" quick connect bladesDielectric Fluid:Proprietary Genteq dielectric oilInternal Protection:UL recognized Pressure Sensitive Interrupter. See Ratings Table for Regal-Beloit's UL Code Number listed under Regal-Beloit's UL File E322597. For UL submittals with these capacitors, use the RBC 'Pxxx' number not the Catalog Number. The corresponding generic UL designation that includes the Available Faults Current (AFC)	Operating Temperature:	-40°C to +70°C				
Dissipation Factor:0.1% maximumCase Material/Finish:Unpainted Aluminum Case, Tin Plated Steel Cover. Contact Regal-Beloit if material/finish to meet UL outdoor standards is required.Terminations:'Combo' terminal: 0.250" x 0.031" quick connect bladesDielectric Fluid:Proprietary Genteq dielectric oilInternal Protection:UL recognized Pressure Sensitive Interrupter. See Ratings Table for Regal-Beloit's UL Code Number listed under Regal-Beloit's UL File E322597. For UL submittals with these capacitors, use the RBC 'Pxxx' number not the Catalog Number. The corresponding generic UL designation that includes the Available Faults Current (AFC)	Storage Temperature:	-40°C to +90°C				
Case Material/Finish:Unpainted Aluminum Case, Tin Plated Steel Cover. Contact Regal-Beloit if material/finish to meet UL outdoor standards is required.Terminations:'Combo' terminal: 0.250" x 0.031" quick connect bladesDielectric Fluid:Proprietary Genteq dielectric oilInternal Protection:UL recognized Pressure Sensitive Interrupter. See Ratings Table for Regal-Beloit's UL Code Number listed under Regal-Beloit's UL File E322597. For UL submittals with these capacitors, use the RBC 'Pxxx' number not the Catalog Number. The corresponding generic UL designation that includes the Available Faults Current (AFC)	Operating Life:					
Contact Regal-Beloit if material/finish to meet UL outdoor standards is required.Terminations:'Combo' terminal: 0.250" x 0.031" quick connect bladesDielectric Fluid:Proprietary Genteq dielectric oilInternal Protection:UL recognized Pressure Sensitive Interrupter. See Ratings Table for Regal-Beloit's UL Code Number listed under Regal-Beloit's UL File E322597. For UL submittals with these capacitors, use the RBC 'Pxxx' number not the Catalog Number. The corresponding generic UL designation that includes the Available Faults Current (AFC)	Dissipation Factor:	0.1% maximum				
Dielectric Fluid:Proprietary Genteq dielectric oilInternal Protection:UL recognized Pressure Sensitive Interrupter. See Ratings Table for Regal-Beloit's UL Code Number listed under Regal-Beloit's UL File E322597. For UL submittals with these capacitors, use the RBC 'Pxxx' number not the Catalog Number. The corresponding generic UL designation that includes the Available Faults Current (AFC)	Case Material/Finish:	Contact Regal-Beloit if material/finish to meet UL outdoor				
Internal Protection:Case Style RBC Code Generic UL CodeUL recognized Pressure Sensitive Interrupter. SeeAP961A10000AFCBP962B10000AFCCP963C10000AFCDP964D10000AFC	Terminations:	'Combo' terminal: 0.250" x 0.031" quick connect blades				
Case Style RBC Code Generic UL CodeAP961A10000AFCBP962B10000AFCCP963C10000AFCDP964D10000AFC	Dielectric Fluid:	Proprietary Genteq dielectric oil				
interrupting available fault currents of up to 10,000 amperes.	Case Style         RBC Code         Generic UL Code           A         P961         A10000AFC           B         P962         B10000AFC           C         P963         C10000AFC	Ratings Table for Regal-Beloit's UL Code Number listed under Regal-Beloit's UL File E322597. For UL submittals with these capacitors, use the RBC 'Pxxx' number not the Catalog Number. The corresponding generic UL				



### Gen Purpose AC Capacitors – GEM III Single Ratings – 1 Section

Voltage	Capacitance	Catalog	Case	Base	Can	Height	UL
(VAC)	(µF)	Number	Style	Size (in.)	Туре	C (in.)	Code
	1.5	97F8240	А	1.25	Oval	2.12	P961
	2.0	97F8241	А	1.25	Oval	2.12	P961
	2.5	97F8242	А	1.25	Oval	2.88	P961
	3.0	97F8243	А	1.25	Oval	2.88	P961
	4.0	97F8244	А	1.25	Oval	2.88	P961
	5.0	97F8245	А	1.25	Oval	3.88	P961
	6.0	97F8246	А	1.25	Oval	3.88	P961
	7.0	97F8247	А	1.25	Oval	4.75	P961
0	8.0	97F8248	А	1.25	Oval	4.75	P961
600	10.0	97F8249	В	1.50	Oval	3.88	P962
<b>9</b>	12.0	97F8250	В	1.50	Oval	3.88	P962
	15.0	97F8251	В	1.50	Oval	3.88	P962
	18.0	97F8252	В	1.50	Oval	4.75	P962
	20.0	97F8253	В	1.50	Oval	4.75	P962
	25.0	97F8254	С	1.75	Oval	4.75	P963
	30.0	97F8255	D	2.00	Oval	3.88	P964
	35.0	97F8256	D	2.00	Oval	4.75	P964
	40.0	97F8257	D	2.00	Oval	4.75	P964
	45.0	97F8258	D	2.00	Oval	4.75	P964

#### Case Style A, B, C, and D



Case Style	a	b
А	2.16	1.31
В	2.69	1.56
С	2.91	1.91
D	3.66	1.97

\*It is **Regal-Beloit's goal** to serve you with the **most cost effective** and **highest quality capacitor** designs. Standardization to the catalog type shown is a major program at Regal-Beloit. However, Regal-Beloit remains sensitive to your needs and requirements, and **will continue to offer the above ratings (and more) in case configurations to meet your application(s).** 

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ESR Values for 97F8200 Series - Curve Numbers refer to Graphs on Page 17.

Voltage	Catalog	Capacitance	ESR	Curve
(VAC)	Number	(μF)	(ohms)	Number
	97F8240	1.5	0.1277	1
	97F8241	2.0	0.0971	1
	97F8242	2.5	0.0984	2
	97F8243	3.0	0.0831	2
	97F8244	4.0	0.0639	2
	97F8245	5.0	0.0723	3
	97F8246	6.0	0.0615	3
	97F8247	7.0	0.0739	4
0	97F8248	8.0	0.0657	4
600	97F8249	10.0	0.0404	4
\$	97F8250	12.0	0.0366	4
	97F8251	15.0	0.0309	4
	97F8252	18.0	0.0361	5
	97F8253	20.0	0.0334	5
	97F8254	25.0	0.0294	5
	97F8255	30.0	0.0220	5
	97F8256	35.0	0.0258	6
	97F8257	40.0	0.0240	6
	97F8258	45.0	0.0225	6

The 97F8200 Series of capacitors may be used in AC applications where the voltage waveform is nonsinusoidal. This Application Note is provided to assist in the correct use of the capacitors where higher frequency harmonic currents are present. If you need further assistance please contact Regal-Beloit's Capacitors Operation through your normal sales channel.

Higher frequency currents are commonly encountered in the filter circuits of Static Power Converters. These frequencies range from 180 to 1500 Hz for a 60 Hz system in various combinations of the odd harmonics depending on the type of converter. Generally, there are not significant harmonic currents above the 25<sup>th</sup> harmonic.

These capacitors can carry a total current of up to 15 amperes RMS (fundamental plus harmonics). The Equivalent Series Resistance (ERS) for each Catalog Number is shown in the ESR tables on this page. This value may be used to calculate the expected watts loss for a particular application. The user must determine the total RMS current (fundamental plus harmonics) for the application. The watts loss is then calculated using the equation:  $W=I^2 \times ESR$  I = Total RMS current ESR = Value from ESR Tables

The calculated watts from this equation must not exceed the allowable watts loss shown on the curve corresponding to the particular capacitor. Two sets of curves are shown, one for natural circulation and one for forced air circulation.

#### NOTES:

(1) In no case should the total RMS current of 15 amperes be exceeded for any of these capacitors

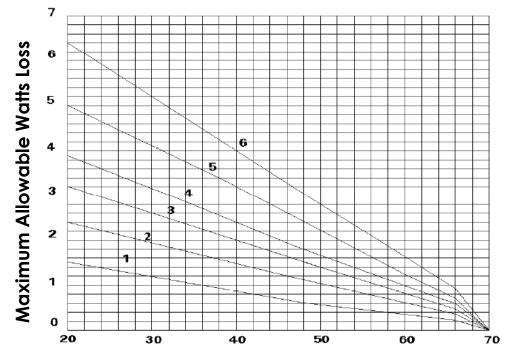
(2) Running the capacitors at case temperatures above 70°C will have a significant effect on expected life. (See chart G-1 on page 18).

(3) Running the capacitors at voltages above the nominal rated voltage will also results in significantly reduced life. (See chart G-2 on page 19).



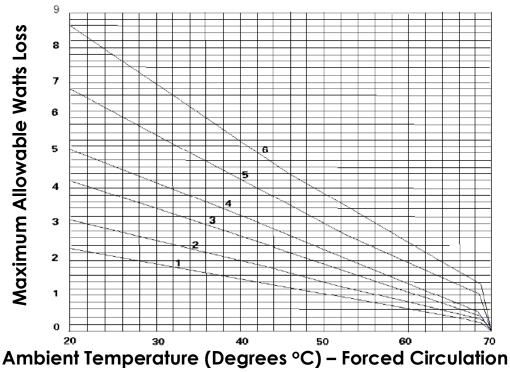
### Gen Purpose AC Capacitors – GEM III Application Notes – 97F8200 Series – 600 VAC

### **ALLOWABLE WATTS LOSS – Natural Circulation**



Ambient Temperature (Degrees °C) – Natural Circulation

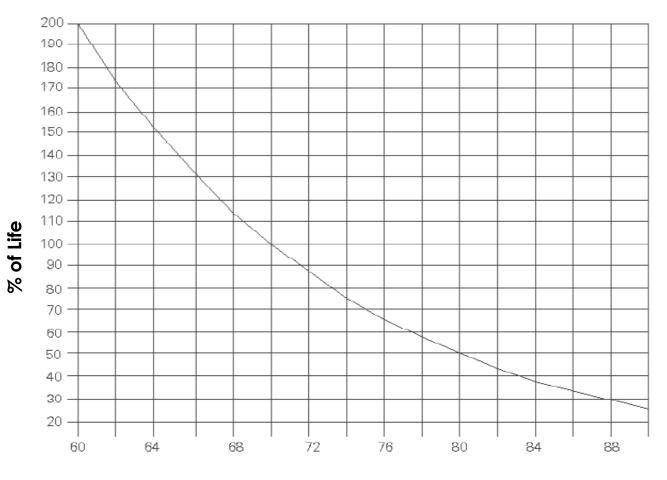
**ALLOWABLE WATTS LOSS – Forced Circulation** 



genteq<sup>®</sup>

## LIFE vs. TEMPERATURE

CHART G-1

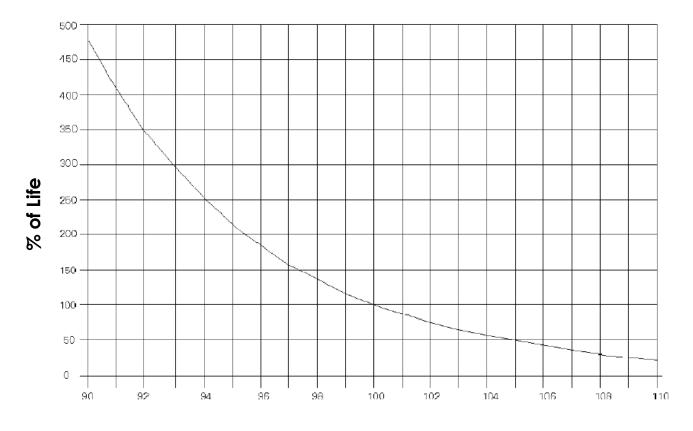


Temperature (Degrees °C)



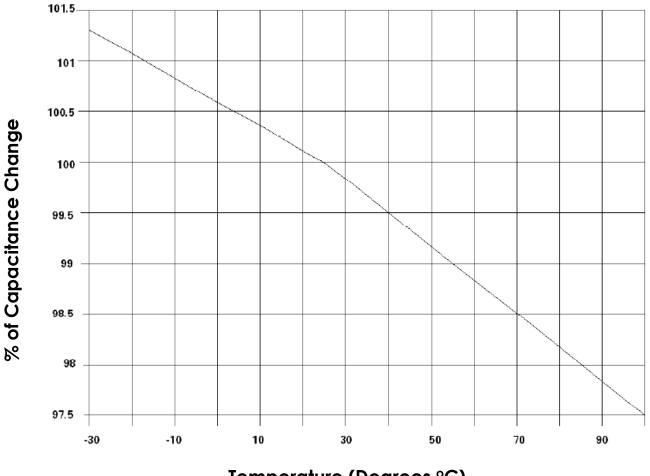
### LIFE vs. VOLTAGE

CHART G-2



% of Rated Voltage

## % CAPACITANCE vs. TEMPERATURE



**CHART E-3** 

Temperature (Degrees °C)



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### Gen Purpose AC Capacitors – GEM III 660 VAC (Series Section)

This series of GEM III is **designed specifically for general purpose applications in power supplies**, UPS, and **power conversation equipment**. Application Data is provided starting on page 23 that gives the Equivalent Series Resistance (ESR) for these units. This allows the user to calculate the losses for each design / application and to ensure that they are kept within the permissible limits. Any questions regarding the suitability of a capacitor for a particular application may be referred to Regal-Beloit Engineers by contacting your Regal-Beloit sales representative.

#### **SPECIFICATIONS:**

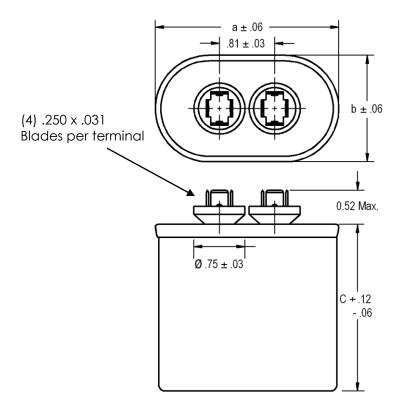
Available Capacitance Range:	2 to 45µF				
Capacitance Tolerance:	±6%				
Capacitance Variation with Temperature:	See Chart E-3 on page 27.				
Rated Voltage:	See Rating Tables. Rating is the 60Hz RMS voltage for a sinusoidal waveform. For other waveforms refer to the Application Note on page 23.				
Leakage Current:	30µA maximum				
Frequency:	50/60 Hz. For higher frequencies refer to the Application Note on page 24.				
Operating Temperature:	-40°C to +70°C				
Storage Temperature:	-40°C to +90°C				
Operating Life:	60,000 hours with 94% survival (In accordance with the EIA-456 Industry Standard)				
Dissipation Factor:	0.1% maximum				
Case Material/Finish:	Unpainted Aluminum Case, Tin Plated Steel Cover.				
Terminations:	'Combo' terminal: 0.250'' x 0.031'' quick connect blades				
Dielectric Fluid:	Proprietary Genteq dielectric oil				
Internal Protection:	UL recognized Pressure Sensitive Interrupter. See Ratings Table for Regal-Beloit's UL Code Number listed under Regal-Beloit's UL File E322597. For UL submittals				
Case Style RBC Code Generic UL Code	with these capacitors, use the RBC 'Pxxx' number not the				
A P851 A1000AFC	Catalog Number. The corresponding generic UL designation that includes the Available Faults Current (AFC)				
B         P852         B1000AFC           C         P853         C1000AFC	rating is given below. All these capacitors are capable of				
C 1000 C1000AIC	interrupting available fault currents of up to 1,000 amperes				

interrupting available fault currents of up to 1,000 amperes.

### Gen Purpose AC Capacitors – GEM III Single Ratings – 1 Section

Voltage	Capacitance	Catalog	Case	Base	Can	Height	UL
(VAC)	(µF)	Number	Style	Size (in.)	Туре	C (in.)	Code
	2.0	27L6095	А	1.25	Oval	3.88	P851
	2.5	27L6093	А	1.25	Oval	3.88	P851
	3.0	27L6094	А	1.25	Oval	3.88	P851
	4.0	27L6012	А	1.25	Oval	3.88	P851
	5.0	27L6013	А	1.25	Oval	3.88	P851
	6.0	27L6014	А	1.25	Oval	4.75	P851
0	7.0	27L6015	А	1.25	Oval	4.75	P851
660	8.0	27L6016	А	1.25	Oval	4.75	P851
•	10.0	27L6017	В	1.50	Oval	3.88	P852
	12.0	27L6018	В	1.50	Oval	4.75	P852
	15.0	27L6073	С	1.75	Oval	4.75	P853
	18.0	27L6089	D	2.00	Oval	3.88	P854
	20.0	27L6082	D	2.00	Oval	4.75	P854
	25.0	27L6022	D	2.00	Oval	4.75	P854
	30.0	27L6023	D	2.00	Oval	4.75	P854

Case Style A, B, C, and D



Case Style	a	b
A	2.16	1.31
В	2.69	1.56
С	2.91	1.91
D	3.66	1.97

\*It is **Regal-Beloit's goal** to serve you with the **most cost effective** and **highest quality capacitor** designs. Standardization to the catalog type shown is a major program at Regal-Beloit. However, Regal-Beloit remains sensitive to your needs and requirements, and **will continue to offer the above ratings (and more) in case configurations to meet your application(s)**.



## Gen Purpose AC Capacitors – GEM III Application Notes – 27L Series – 660 VAC

ESR Values for 27L Series – Curve Numbers refer to Graphs on Page 24.

Voltage	Catalog	Capacitance	ESR	Curve
(VAC)	Number	(μF)	(ohms)	Number
	27L6095	2.0	0.0971	1
	27L6093	2.5	0.0984	2
	27L6094	3.0	0.0831	2
	27L6012	4.0	0.0639	2
	27L6013	5.0	0.0723	2
	27L6014	6.0	0.0615	3
0	27L6015	7.0	0.0739	3
660	27L6016	8.0	0.0657	4
\$	27L6017	10.0	0.0404	4
	27L6018	12.0	0.0366	4
	27L6073	15.0	0.0309	4
	27L6089	18.0	0.0361	4
	27L6082	20.0	0.0334	5
	27L6022	25.0	0.0294	5
	27L6023	30.0	0.0220	5

The 27L Series of capacitors may be used in AC applications where the voltage waveform is nonsinusoidal. This Application Note is provided to assist in the correct use of the capacitors where higher frequency harmonic currents are present. If you need further assistance please contact Regal-Beloit's Capacitors Operation through your normal sales channel.

Higher frequency currents are commonly encountered in the filter circuits of Static Power Converters. These frequencies range from 180 to 1500 Hz for a 60 Hz system in various combinations of the odd harmonics depending on the type of converter. Generally, there are not significant harmonic currents above the 25<sup>th</sup> harmonic.

These capacitors can carry a total current of up to 15 amperes RMS (fundamental plus harmonics). The Equivalent Series Resistance (ERS) for each Catalog Number is shown in the ESR tables on this page. This value may be used to calculate the expected watts loss for a particular application. The user must determine the total RMS current (fundamental plus harmonics) for the application. The watts loss is then calculated using the equation:

W=I<sup>2</sup> x ESR I = Total RMS current ESR = Value from ESR Tables

The calculated watts from this equation must not exceed the allowable watts loss shown on the curve corresponding to the particular capacitor. Two sets of curves are shown, one for natural circulation and one for forced air circulation.

#### NOTES:

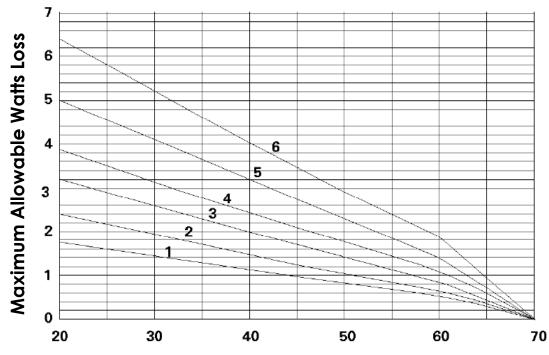
In no case should the total RMS current of 15 amperes be exceeded for any of these capacitors
 Running the capacitors at case temperatures above 70°C will have a significant effect on expected life. (See chart G-1 on page 25).

(3) Running the capacitors at voltages above the nominal rated voltage will also results in significantly reduced life. (See chart G-2 on page 26).

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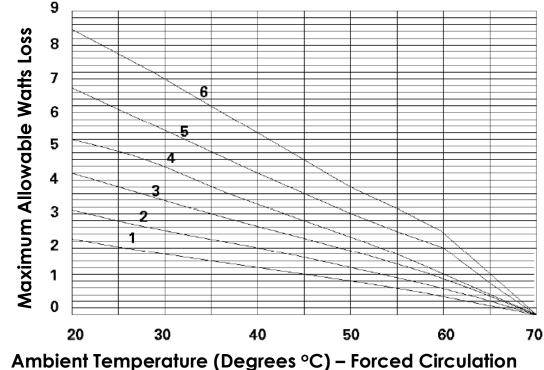


### **ALLOWABLE WATTS LOSS – Natural Circulation**



Ambient Temperature (Degrees °C) – Natural Circulation

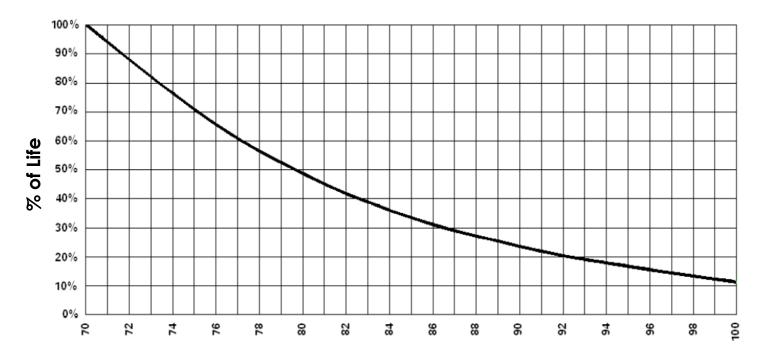
ALLOWABLE WATTS LOSS – Forced Circulation





### LIFE vs. TEMPERATURE

**CHART G-1** 



Temperature (Degrees °C)

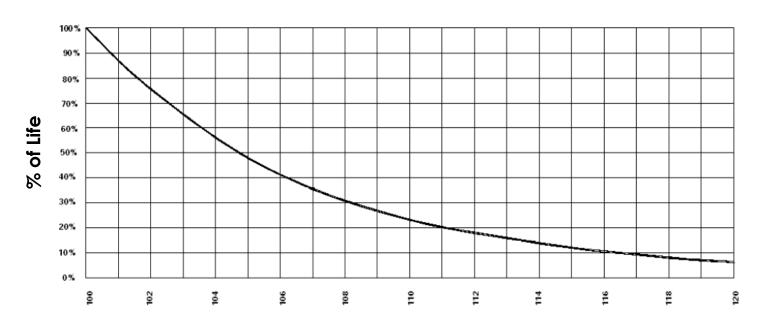
The above chart is intended as general reference only. Any indication of extended life by reducing temperature is in no way a guarantee of extended product life.





### LIFE vs. VOLTAGE

CHART G-2



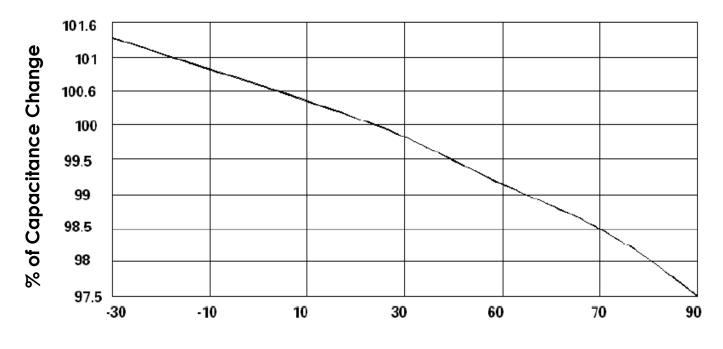
% of Rated Voltage

The above chart is intended as general reference only. Any indication of extended life by reducing voltage is in no way a guarantee of extended product life.



## % CAPACITANCE vs. TEMPERATURE





Temperature (Degrees °C)

Gen Purpose AC/DC Capacitors – GEM III 1000 VDC Peak

This series of GEM III – dual rated AC/DC Capacitors is **designed specifically for applications such as AC/DC filters where harmonic frequencies greater than 60Hz are common**. These capacitors are typically used in DC filters at voltages above those served by electrolytic type construction. **Any questions** regarding the suitability of a capacitor for a particular application may be referred to Regal-Beloit Engineers through **contacting your Regal-Beloit sales representative**.

#### **SPECIFICATIONS:**

Available Capacitance Range:	3 to 50µF			
Capacitance Tolerance:	±6%			
Capacitance Variation with Temperature:	±5% from -40°C to +70°C			
Rated Voltage:	See Rating Tables. Rating is the Max Peak DC Voltage.			
Ripple Voltage:	The RMS ripple voltage should not exceed the following percentages of the rated voltage for these frequencies:			
	Frequency         % of Rated Voltage           60 Hz         44           120 Hz         30           400 Hz         12           1,000 Hz         8           10,000 Hz         0.6			
Operating Temperature:	-30°C to +70°C			
Storage Temperature:	-55°C to +70°C			
Operating Life:	60,000 hours with 90% survival with proper derating.			
Dissipation Factor:	0.3% maximum			
Case Material/Finish:	Unpainted Aluminum Case, Tin Plated Steel Cover.			
Terminations:	'Combo' terminal: 0.250" x 0.031" quick connect blades			
Dielectric Fluid:	Proprietary Genteq dielectric oil			
Internal Protection:	UL recognized Pressure Sensitive Interrupter. See Ratings Table for Regal-Beloit's UL Code Number listed			
Case Style         RBC Code         Generic UL Code           A         P921         A10000AFC           P         P965         P10000AFC           S         P968         S10000AFC	under Regal-Beloit's UL File E322597. For UL submittals with these capacitors, use the RBC 'Pxxx' number not the Catalog Number. The corresponding generic UL designation that includes the Available Faults Current (AFC rating is given below. All these capacitors are capable of			

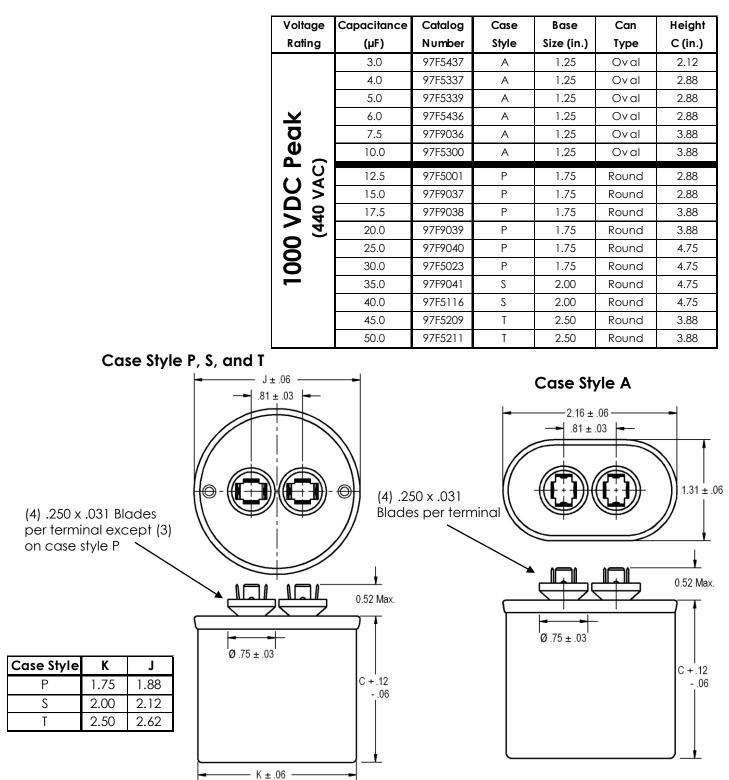


Т

P969

T10000AFC

## Gen Purpose AC/DC Capacitors – GEM III Single Ratings – 1 Section



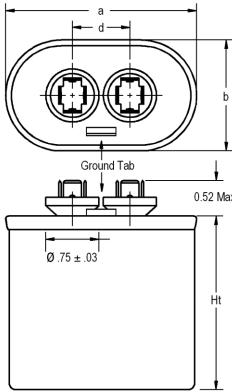
\*It is **Regal-Beloit's goal** to serve you with the **most cost effective** and **highest quality capacitor** designs. Standardization to the catalog type shown is a major program at Regal-Beloit. However, Regal-Beloit remains sensitive to your needs and requirements, and **will continue to offer the above ratings (and more) in case configurations to meet your application(s)**.



### Cross Reference 600 VAC 26F6600 Series to NEW 660 VAC 27L Series

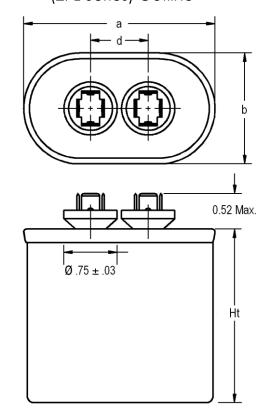
Series	Capacitance	Catalog	Case	Height	Series	Capacitance	Catalog	Case	Height	UL
Name	(µF)	Number	Style	Ht (in.)	Name	(μF)	Number	Style	Ht (in.)	Code
	2.0	26F6618	А	2.12		2.0	27L6095	А	3.88	P851
	2.5	26F6619	А	2.12		2.5	27L6093	А	3.88	P851
	3.0	26F6620	А	2.38		3.0	27L6094	А	3.88	P851
<u> </u>	4.0	26F6621	А	3.12		4.0	27L6012	А	3.88	P851
Ū	5.0	26F6622	А	3.50		5.0	27L6013	А	3.88	P851
<b>D</b> (§	6.0	26F6623	А	4.25	II (si	6.0	27L6014	А	4.75	P851
Pap Series)	7.0	26F6624	А	4.50	M III Series)	7.0	27L6015	А	4.75	P851
Se <b>P</b>	8.0	26F6625	А	5.50		8.0	27L6016	А	4.75	P851
6 Е	10.0	26F6626	С	3.88		10.0	27L6017	В	3.88	P852
<b>E</b> Š	12.0	26F6627	С	4.50	(27	12.0	27L6018	В	4.75	P852
L.	15.0	26F6628	С	5.50		15.0	27L6073	С	4.75	P853
	18.0	26F6629	С	6.75		18.0	27L6089	D	3.88	P854
	20.0	26F6634	D	6.25		20.0	27L6082	D	4.75	P854
	25.0	26F6665	D	7.25		25.0	27L6022	D	4.75	P854
	30.0	26F6636	D	8.00		30.0	27L6023	D	4.75	P854

Film / Paper (26F Series) Outline



	_			
	Case Style	α	b	d
,	A	2.16	1.31	0.81
-	В	2.69	1.56	0.81
	С	2.91	1.91	0.81
ax.	D	3.66	1.97	0.81

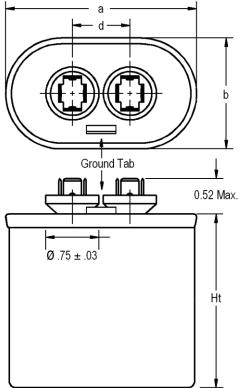
**GEM III** (27L Series) Outline



### **Cross Reference** 600 VAC 61L Series to NEW 660 VAC 27L Series

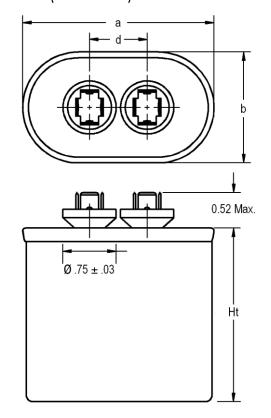
Series	Capacitance	Catalog	Case	Height	Series	Capacitance	Catalog	Case	Height	UL		
Name	(µF)	Number	Style	Ht (in.)	Name	(µF)	Number	Style	Ht (in.)	Code		
	2.0	61L1271	А	2.12		2.0	27L6095	А	3.88	P851		
	2.5	61L1280	А	2.88		2.5	27L6093	А	3.88	P851		
	3.0	61L1272	А	2.88		3.0	27L6094	А	3.88	P851		
	4.0	61L313	А	2.88		4.0	27L6012	А	3.88	P851		
	5.0	61L1273	А	3.88	EM III 71 Series)	5.0	27L6013	А	3.88	P851		
	6.0	61L1274	А	3.88		6.0	27L6014	А	4.75	P851		
M II Series)	7.0	61L316	А	3.88		L LLÌ LL	7.0	27L6015	А	4.75	P851	
S S	8.0	61L1275	А	4.75				8.0	27L6016	А	4.75	P851
S1LS	10.0	61L1286	В	3.88				10.0	27L6017	В	3.88	P852
<u>ତ</u> ତ	12.0	61L1276	В	4.75	(27	12.0	27L6018	В	4.75	P852		
	15.0	61L1289	В	5.75		15.0	27L6073	С	4.75	P853		
	18.0	61L1277	В	5.75		18.0	27L6089	D	3.88	P854		
	20.0	61L322	С	4.75		20.0	27L6082	D	4.75	P854		
	25.0	61L323	С	5.75		25.0	27L6022	D	4.75	P854		
	30.0	61L324	D	5.75		30.0	27L6023	D	4.75	P854		

**GEM II** (61L Series) Outline



•				
	Case Style	a	b	d
,	A	2.16	1.31	0.81
_	В	2.69	1.56	0.81
	С	2.91	1.91	0.81
ах	D	3.66	1.97	0.81

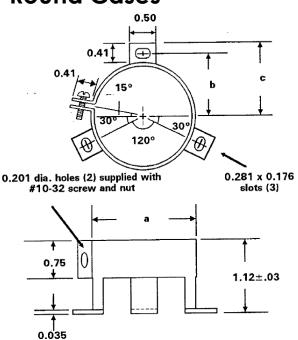
**GEM III** (27L Series) Outline



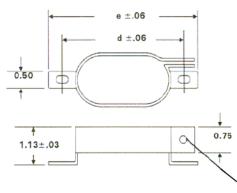
## **Mounting Hardware**



Case Style	Bracket Part Number	a	b	c
Р	M295A601631	1.75	1.12	1.31
S	M295A601632	2.00	1.25	1.44
T	M295A601633	2.50	1.50	1.69



**UNIVERSAL WRAP AROUND BRACKETS – Oval Cases** 



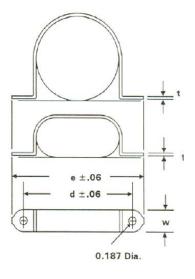
Case	Bracket	d		
Style	Part Number	α	е	
А	M128A2244AC21	2.69	3.13	
В	M128A2244AB25	3.27	3.70	
С	M128A2244AB22	3.44	3.88	
D	M128A2244AB23	4.19	4.63	

. (2) .156 dia holes suplplied with # 6-32 screw and nut

⇒genteq<sup>®</sup>

### WRAP AROUND BRACKETS – Oval & Round Cases

Case Style	Bracket Part Number	d	е	w	t
А	M982706521	2.56	2.94	0.50	0.02
В	M982706531	3.06	3.50	0.63	0.02
С	M614A30161	3.31	3.81	0.75	0.03
D	M614A30151	4.06	4.56	0.75	0.03
Р	M279A723524	2.50	2.88	0.75	0.04
S	M279A723522	2.75	3.12	0.75	0.04
Т	M279A723523	3.25	3.62	0.75	0.04



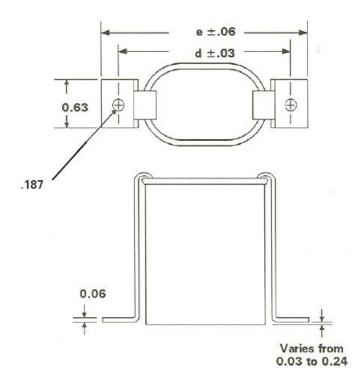
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# **Mounting Hardware**

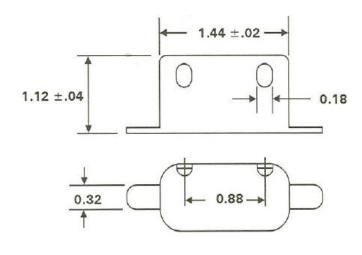
### FOOTED BRACKETS - Oval & Round Cases

Case Height	Bracket Part Number	
2.12	M302C920210	
2.88	M302C920113	
3.88	M302C920115	
4.75	M302C920116	
5.75	M302C920209	

Case Style	d	е
А	2.56	3.00
В	3.13	3.56
С	3.38	3.81
D	4.13	4.56
Р	2.33	2.76
S	2.57	3.00
T	3.07	3.50



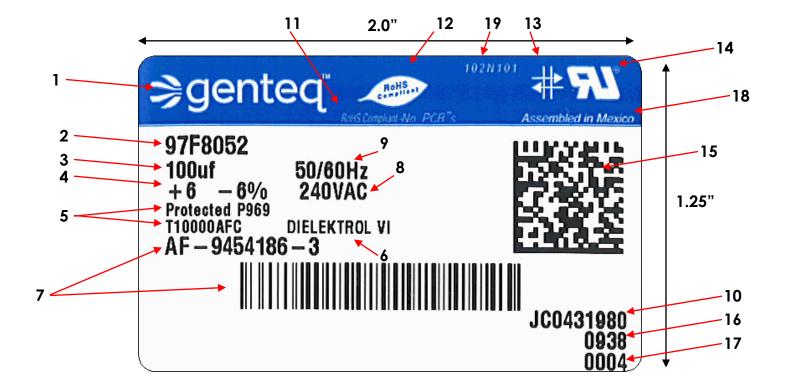
### **PROTECTIVE BOOT**



Boot Part Number	Temperature Rating
M614A52721	60°C
M178A374421	105°C

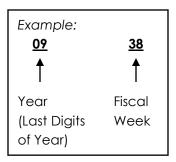


## **Capacitor Label**



- 1. Product / Brand
- 2. Genteq Catalog Model Number
- 3. Capacitance in Micro-Farads
- 4. Tolerance
- 5. UL Designation Including
- Available Fault Current (AFC) Rating
- 6. Genteq Product Name of Dielectric Fluid
- 7. Customer Part Number and Bar Code
- 8. AC Voltage Rating
- 9. Frequency
- 10. Manufacturing WIP Job Number
- 11. RoHS Compliant / No PCBs Statement
- 12. RoHs Compliant Logo
- 13. Self-Healing Symbol
- 14. UL Approved Logo

- 15. Data Matrix Bar Code
- 16. Manufacturing Date Code



- 17. Label Sequence Number
- 18. Country of Origin
- 19. Label Part Number (Internal)



# Other Available Catalogs

AVAILABLE REGAL-BELOIT COMPONENT CAPACITOR PUBLICATIONS		
Publication	Description	Notes
GTC-001	AC Capacitors for Motor Run Applications	
GTC-002	AC Capacitors for HID Lighting Applications	
GTC-003	Capacitors for AC and DC General Purpose Applications	
GTC-004	Screw Terminal Electrolytic Capacitors	
GTC-005	Snubber, High Current DC, and Switching Capacitors	
GTC-006	Dry Capacitors for Motor Run & HID Lighting Applications	New Publication
GTC-007	Snap-In Electrolytic Capacitors	New Publication
GTC-008	Dry Capacitors for Motor Start Applications	New Publication
GTC-009	Mounting, Protective, and Value-Add Accessories	New Publication
PLC-001	PROLINE - AC Capacitors for Motor Run Applications	

Please contact your local Regal-Beloit Sales Representative for further information.

Call or write directly to:





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