## HID Lighting Capacitors – GEM III 280, 330, 400, 480, 540, and 580 VAC

This capacitor series is **designed specifically for the HID Lighting applications** where the capacitors are used as part of the ballast circuit for mercury vapor, metal halide, and high-pressure sodium lamps. The units are designed to **operate at up to 90°C**, which is the normal requirement for HID ballast capacitors. Due to advances in material technology and breakthroughs in proprietary capacitor manufacturing processes, **selected ratings** are now available for operation up to **100°C** for 60,000 hours. If there are **any questions** regarding the correct application of these products, please **contact your RBC sales representative**.

### **SPECIFICATIONS:**

Available Capacitance Range: 5 to 60µF

Capacitance Tolerance: ±3%

**Capacitance Variation with Temperature:** See Chart L-3 on page 20.

Rated Voltage: See Rating Tables.

Leakage Current: 30µA maximum

Frequency: 50/60 Hz.

Operating Temperature: -40°C to +90°C and up to 100°C MAX on selected ratings

(See page 16 & 17)

Storage Temperature: -40°C to +90°C

Operating Life: 60,000 hours with 90% survival

**Dissipation Factor:** 0.1% maximum

Case Material/Finish: Unpainted Aluminum case, terne plate steel cover.

**Terminations:** 'Combo' terminal: 0.250" x 0.031" quick connect blades

plus a solderable fork on each terminal.

Dielectric Fluid: Dielektrol VI

Internal Protection:

UL recognized Pressure Sensitive Interrupter. The UL Code
Numbers in the Ratings Tables are the numbers listed under

Regal-Beloit's UL File No. E322597. When including these capacitors in a UL submittal, use this 'Pxxx' numbers **not** the Catalog Number. The generic UL designations corresponding to the Regal-Beloit numbers are given below. This number includes the Available Fault Current (AFC) ratings. All these capacitors are capable of interrupting available fault currents of up to **10,000** amperes.

Case Style	RBC Code	Generic UL Code
Α	P921	A10000AFC
В	P922	B10000AFC
С	P923	C10000AFC
D	P924	D10000AFC
Р	P965	P10000AFC
S	P968	\$10000AFC



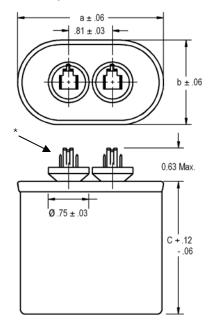




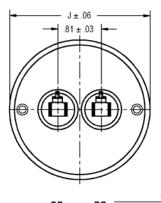
## HID Lighting Capacitors – GEM III Single Ratings – 1 Section

#### Height UL Voltage Capacitance Catalog Base Can Case (VAC) Number Size (in.) C (in.) (µF) Style Code Type Oval 2.12 P921 6.0 97F6801 Α 1.25 8.0 97F6857 Α 1.25 Oval 2.88 P921 10.0 97F6858 2.88 P921 Α 1.25 Oval 10.0 97F6805 В 1.50 Oval P922 97F6871 3.88 P921 12.0 Oval 97F6860 1.50 Oval P922 В 2.88 15.0 Oval 17.5 97F6812 В 1.50 2.88 P922 20.0 97F6861 В 1.50 Oval 3.88 P922 20.0 97F6862 С 1.75 Oval 2.88 P923 22.5 97F6855 В 1.50 Oval 3.88 P922 24.0 97F6873 В 1.50 Oval 3.88 P922 24.0 97F6864 С 1.75 Oval 2.88 P923 P922 26.0 97F6868 В 1.50 Oval 2.88 28.0 97F6824 В 1.50 3.88 P922 Oval 28.0 97F6823 1.75 2.88 P923 С Oval 280 29.0 97F6846 В 1.50 Oval 3.88 P922 34.0 97F6854 В 1.50 Oval 3.88 P922 35.0 97F6865 С 1.75 Oval 3.88 P923 40.0 97F6866 Oval 3.88 P923 42.0 97F6869 В 1.50 Oval 3.88 P922 97F6850 С 1.75 Oval P923 45.0 3.88 3.88 P923 48.0 97F6836 Oval P924 48.0 97F6872 D 2.00 Oval 2.88 97F6867 P924 52.0 D 2.00 Oval 3.88 22.5 97F6516 Round 2.88 P965 24.0 97F6522 Р 1.75 Round 2.88 P965 P965 30.0 97F6533 3.88 1.75 Round P965 35.0 97F6538 1.75 Round 3.88 38.0 97F6509 Р 1.75 Round 3.88 P965 P965 40.0 3.88 97F6530 P 1.75 Round 45.0 3.88 P968 97F6540 2.00 Round 48.0 97F6541 2.00 3.88 P968 Round

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



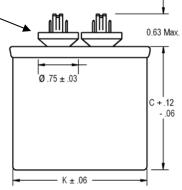
Case Style P, S, and T



Case Style	а	b
Α	2.16	1.31
В	2.69	1.56
С	2.91	1.91
D	3.66	1.97

Case Style	K	J
Р	1.75	1.88
S	2.00	2.12

\*(2) .250 x .031 Blades & Fork per terminal





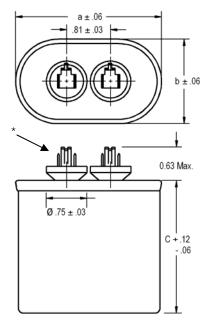




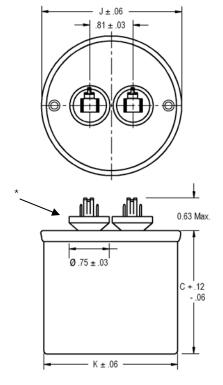
## HID Lighting Capacitors – GEM III

## Single Ratings - 1 Section

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



Case Style P, S, and T



Voltage	Capacitance	Catalog	Case	Base	Can	Height	UL
(VAC)	(μF)	Number	Style	Size (in.)	Туре	C (in.)	Code
	2.5	97F6788	А	1.25	Oval	2.12	P921
	5.0	97F6764	А	1.25	Oval	2.88	P921
	6.0	97F6765	А	1.25	Oval	2.88	P921
	7.0	97F6766	А	1.25	Oval	2.88	P921
	8.0	97F6703	А	1.25	Oval	2.88	P921
	10.0	97F6763	А	1.25	Oval	3.88	P921
	10.0	97F6767	В	1.50	Oval	2.88	P922
	11.0	97F6762	В	1.50	Oval	2.88	P922
	12.0	97F6746	А	1.25	Oval	3.88	P921
	12.0	97F6760	В	1.50	Oval	2.88	P922
	13.0	97F6708	В	1.50	Oval	2.88	P922
	13.5	97F6749	В	1.50	Oval	2.88	P922
	14.0	97F6768	В	1.50	Oval	2.88	P922
	15.0	97F6758	В	1.50	Oval	3.88	P922
	16.0	97F6769	В	1.50	Oval	3.88	P922
	17.5	97F6761	В	1.50	Oval	3.88	P922
	17.5	97F6770	С	1.75	Oval	2.88	P923
	18.0	97F6771	В	1.50	Oval	3.88	P922
	18.0	97F6779	С	1.75	Oval	2.88	P923
	19.0	97F6715	В	1.50	Oval	3.88	P922
$\simeq$	20.0	97F6716	В	1.50	Oval	3.88	P922
(,,	21.0	97F6745	В	1.50	Oval	3.88	P922
(-)	22.5	97F6773	С	1.75	Oval	3.88	P923
	24.0	97F6759	В	1.50	Oval	3.88	P922
	24.0	97F6774	С	1.75	Oval	3.88	P923
	26.0	97F6755	В	1.50	Oval	3.88	P922
	28.0	97F6776	С	1.75	Oval	3.88	P923
	29.0	97F6780	С	1.75	Oval	3.88	P923
	30.0	97F6726	С	1.75	Oval	3.88	P923
	32.0	97F6727	С	1.75	Oval	3.88	P923
	34.0	97F6757	С	1.75	Oval	3.88	P923
	36.0	97F6784	C	1.75	Oval	3.88	P923
	45.0	97F6778	D	2.00	Oval	3.88	P924
	7.0	97F6531	Р	1.75	Round	2.88	P965
	8.0	97F6518	Р	1.75	Round	2.88	P965
	10.0	97F6515	Р	1.75	Round	2.88	P965
	14.0	97F6506	Р	1.75	Round	2.88	P965
	15.0	97F6504	Р	1.75	Round	2.88	P965
	16.0	97F6519	Р	1.75	Round	2.88	P965
	17.5	97F6505	Р	1.75	Round	2.88	P965
	24.0	97F6537	Р	1.75	Round	3.88	P965
	28.0	97F6521	Р	1.75	Round	3.88	P965

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

Case Style	K	J
Р	1.75	1.88
S	2.00	2.12

\*(2) .250 x .031 Blades & Fork per terminal



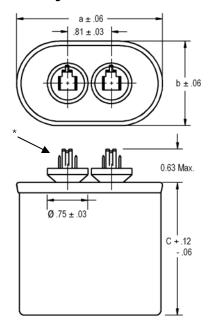




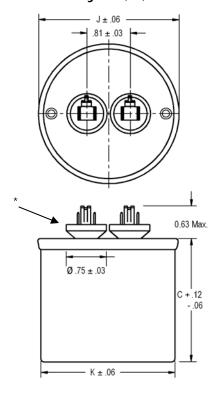
## HID Lighting Capacitors – GEM III Single Ratings – 1 Section

Voltage (VAC)	Capacitance (µF)	Catalog Number	Case Style	Base Size (in.)	Can Type	Height C (in.)	UL Code
	7.5	97F6656	А	1.25	Oval	3.88	P921
	10.0	97F6601	Α	1.25	Oval	3.88	P921
	10.0	97F6606	В	1.50	Oval	2.88	P922
	12.0	97F6659	В	1.50	Oval	3.88	P922
	12.0	97F6660	С	1.75	Oval	2.88	P923
	13.0	97F6698	В	1.50	Oval	3.88	P922
	14.0	97F6661	С	1.75	Oval	2.88	P923
_	15.0	97F6602	В	1.50	Oval	3.88	P922
0	15.0	97F6621	С	1.75	Oval	2.88	P923
400	18.0	97F6658	С	1.75	Oval	2.88	P923
4	24.0	97F6622	С	1.75	Oval	3.88	P923
	24.0	97F6623	D	2.00	Oval	2.88	P924
	26.0	97F6926	В	1.50	Oval	3.88	P922
	10.0	97F6526	Р	1.75	Round	2.88	P965
	14.0	97F6539	Р	1.75	Round	2.88	P965
	15.0	97F6517	Р	1.75	Round	2.88	P965
	24.0	97F6535	Р	1.75	Round	3.88	P965
	26.0	27L709	S	2.00	Round	3.88	P968

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



### Case Style P, S, and T



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

Case Style	K	J
Р	1.75	1.88
ς	2.00	2 1 2

\*(2) .250 x .031 Blades & Fork per terminal



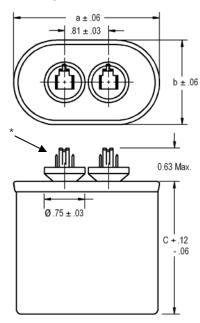




## HID Lighting Capacitors - GEM III

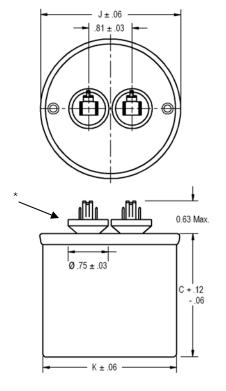
## Single Ratings - 1 Section

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



Voltage (VAC)	Capacitance (µF)	Catalog Number	Case Style	Base Size (in.)	Can Type	Height C (in.)	UL Code
	3.0	97F6676	А	1.25	Oval	2.88	P921
	4.0	97F6677	Α	1.25	Oval	2.88	P921
	4.5	97F6678	А	1.25	Oval	2.88	P921
	5.0	97F6681	Α	1.25	Oval	2.88	P921
	6.5	97F6695	А	1.25	Oval	3.88	P921
	8.5	97F6692	В	1.50	Oval	2.88	P922
	10.0	97F6907	В	1.50	Oval	3.88	P922
80	12.0	97F6674	В	1.50	Oval	3.88	P922
1 84	14.0	97F6673	В	1.50	Oval	3.88	P922
7	15.0	97F6685	В	1.50	Oval	3.88	P922
	16.0	97F6675	С	1.75	Oval	3.88	P923
	20.0	97F6694	С	1.75	Oval	3.88	P923
	21.0	97F6683	С	1.75	Oval	3.88	P923
	24.0	97F6680	С	1.75	Oval	3.88	P923
	24.0	97F6679	D	2.00	Oval	2.88	P924
	28.0	97F6918	С	1.75	Oval	4.75	P923

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



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

Case Style	K	J
Р	1.75	1.88
S	2.00	2.12

\*(2) .250 x .031 Blades & Fork per terminal



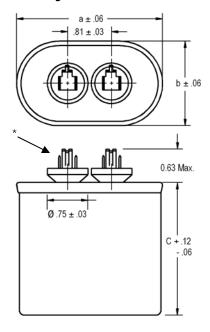




# HID Lighting Capacitors – GEM III Single Ratings – 1 Section

Voltage (VAC)	Capacitance (µF)	Catalog Number	Case Style	Base Size (in.)	Can Type	Height C (in.)	UL Code
	7.5	27L176	В	1.50	Oval	2.88	P962
	10.5	97F6935	С	1.75	Oval	2.88	P963
	13.0	97F6924	В	1.50	Oval	3.88	P962
	16.0	97F6919	С	1.75	Oval	3.88	P963
	16.0	97F6920	В	1.50	Oval	3.88	P962
40	18.0	97F6933	С	1.75	Oval	3.88	P963
	22.5	97F6951	С	1.75	Oval	4.75	P963
D.	22.5	97F6956	D	2.00	Oval	3.88	P964
	26.0	97F6934	D	2.00	Oval	3.88	P964
	32.0	97F6923	D	2.00	Oval	3.88	P964
	35.0	97F6940	D	2.00	Oval	4.75	P964
	36.0	97F6952	D	2.00	Oval	4.75	P964

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



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

\*(2) .250 x .031 Blades & Fork per terminal



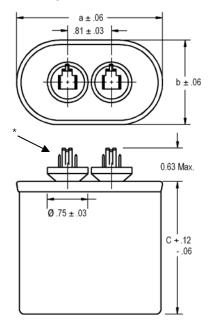




## **HID Lighting Capacitors – GEM III**

## Single Ratings - 1 Section

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



Voltage (VAC)	Capacitance (µF)	Catalog Number	Case Style	Base Size (in.)	Can Type	Height C (in.)	UL Code
	8.0	27L791	В	1.50	Oval	3.88	P962
	10.0	97F6930	В	1.50	Oval	3.88	P962
	14.5	97F6948	В	1.50	Oval	3.88	P962
$\infty$	20.0	97F6931	С	1.75	Oval	4.75	P963
2	21.0	97F6946	С	1.75	Oval	4.75	P963
	24.0	97F6945	С	1.75	Oval	4.75	P963
	26.0	97F6921	С	1.75	Oval	4.75	P963

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

\*(2) .250 x .031 Blades & Fork per terminal



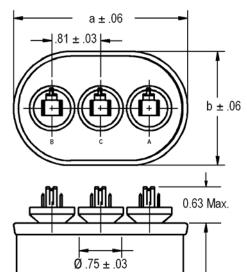




# HID Lighting Capacitors – GEM III Dual Ratings – 2 Sections

Voltage	Capac	itance	Catalog	Case	Base	Can	Height	UL
(VAC)	Main (µF)	Aux (µF)	Number	Style	Size (in.)	Туре	C (in.)	Code
	8.5	3.5	27L382	С	1.75	Oval	2.12	P923
	18.0	6.0	27L430	С	1.75	Oval	2.88	P923
	18.0	10.0	97F6890	С	1.75	Oval	2.88	P923
	20.0	8.0	25L6755	С	1.75	Oval	2.88	P923
	20.0	12.0	97F6880	С	1.75	Oval	2.88	P923
	20.0	15.0	97F6878	С	1.75	Oval	3.88	P923
	22.0	7.0	27L432	С	1.75	Oval	2.88	P923
	24.0	4.0	97F6691	С	1.75	Oval	2.88	P923
	24.0	8.0	97F6882	С	1.75	Oval	2.88	P923
0	24.0	11.0	27L724	С	1.75	Oval	3.88	P923
$\overset{\circ}{\infty}$	27.0	8.0	97F6886	С	1.75	Oval	3.88	P923
7	28.0	7.0	27L442	С	1.75	Oval	2.88	P923
	33.0	15.0	97F6884	С	1.75	Oval	3.88	P923
	35.0	13.0	25L6753	С	1.75	Oval	3.88	P923
	35.0	20.0	27L55	D	2.00	Oval	3.88	P924
	36.0	12.0	97F6885	С	1.75	Oval	3.88	P923
	36.0	20.0	97F6883	С	1.75	Oval	4.75	P923
	38.0	17.0	97F6887	С	1.75	Oval	3.88	P923
	40.0	15.0	27L573	С	1.75	Oval	3.88	P923
	42.0	14.0	97F6881	С	1.75	Oval	3.88	P923
	42.0	22.0	27L705	D	2.00	Oval	3.88	P924

## Case Style C and D



Case Style	а	b
С	2.91	1.91
D	3.66	1.97

MAIN SECTION: C to A

**AUXILIARY SECTION: B to C** 

\*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).

C + .12 - .06



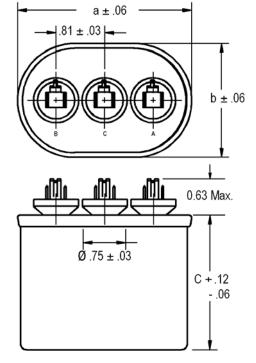




# HID Lighting Capacitors – GEM III Dual Ratings – 2 Sections

Voltage	Capac	itance	Catalog	Case	Base	Can	Height	UL
(VAC)	Main (µF)	Aux (µF)	Number	Style	Size (in.)	Туре	C (in.)	Code
	19.0	7.0	27L630	С	1.75	Oval	2.88	P923
	20.0	8.0	27L401	С	1.75	Oval	3.88	P923
	24.0	8.0	27L402	С	1.75	Oval	3.88	P923
	24.0	11.0	27L590	С	1.75	Oval	3.88	P923
00	25.0	10.0	27L470	С	1.75	Oval	3.88	P923
3(	26.0	9.0	27L400	С	1.75	Oval	3.88	P923
(-)	35.0	15.0	27L591	С	1.75	Oval	4.75	P923
	35.0	16.0	27L413	С	1.75	Oval	4.75	P923
	37.0	11.0	27L444	С	1.75	Oval	4.25	P923
	45.0	19.0	27L727	D	2.00	Oval	4.75	P924

### Case Style C and D



Case Style	a	b
С	2.91	1.91
D	3.66	1.97

MAIN SECTION: C to A

**AUXILIARY SECTION: B to C** 



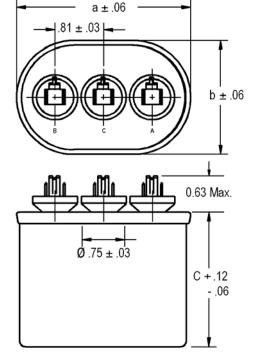




# HID Lighting Capacitors – GEM III Dual Ratings – 2 Sections

Voltage	Capac	itance	Catalog	Case	Base	Can	Height	UL
(VAC)	Main (µF)	Aux (μF)	Number	Style	Size (in.)	Туре	C (in.)	Code
	9.5	6.5	27L543	С	1.75	Oval	2.88	P923
	10.5	8.0	27L542	С	1.75	Oval	2.88	P923
	11.5	7.0	27L850	С	1.75	Oval	3.88	P923
	14.0	10.5	27L541	С	1.75	Oval	2.88	P923
	15.0	11.0	27L539	С	1.75	Oval	3.88	P923
33	16.5	11.5	27L540	С	1.75	Oval	3.88	P923
(,)	18.0	10.0	27L827	С	1.75	Oval	3.88	P923
	33.0	15.0	27L476	D	2.00	Oval	3.88	P924
	39.0	13.0	27L600	С	1.75	Oval	4.75	P923
	45.0	19.0	27L562	С	1.75	Oval	5.75	P923

### Case Style C and D



Case Style	а	b
С	2.91	1.91
D	3.66	1.97

MAIN SECTION: C to A

**AUXILIARY SECTION: B to C** 





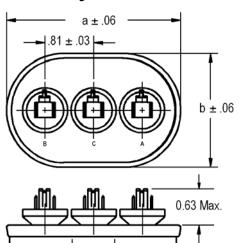


## HID Lighting Capacitors - GEM III

## **Dual Ratings - 2 Sections**

Voltage	Capac	citance	Catalog	Case	Base	Can	Height	UL
(VAC)	Main (µF)	Aux (μF)	Number	Style	Size (in.)	Туре	C (in.)	Code
	7.0	3.0	25L6252	С	1.75	Oval	2.12	P923
	8.0	2.0	97F6960	С	1.75	Oval	2.12	P923
	10.0	5.0	27L589	С	1.75	Oval	2.88	P923
	11.5	3.0	97F6927	С	1.75	Oval	2.88	P923
	12.0	12.0	97F6950	С	1.75	Oval	3.88	P923
	15.0	6.0	27L865	С	1.75	Oval	3.88	P923
	15.0	7.5	27L797	С	1.75	Oval	3.88	P923
	15.0	9.0	27L973	С	1.75	Oval	3.88	P923
	15.0	10.0	27L427	С	1.75	Oval	2.88	P923
400	16.0	10.0	27L531	С	1.75	Oval	3.88	P923
	17.0	7.0	27L443	С	1.75	Oval	3.88	P923
7	20.0	4.0	27L729	С	1.75	Oval	3.88	P923
	20.0	6.0	27L480	С	1.75	Oval	3.88	P923
	20.0	8.0	27L576	С	1.75	Oval	3.88	P923
	24.0	10.0	27L853	С	1.75	Oval	3.88	P923
	24.0	15.0	27L428	С	1.75	Oval	3.88	P923
	26.0	15.0	27L53	С	1.75	Oval	3.88	P923
	30.0	18.0	27L68	D	2.00	Oval	3.88	P924
	35.0	24.0	27L862	D	2.00	Oval	3.88	P924
	42.0	22.0	27L667	D	2.00	Oval	3.88	P924

### Case Style C and D



Case Style	а	b
С	2.91	1.91
D	3.66	1.97

MAIN SECTION: C to A

AUXILIARY SECTION: B to C

\*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).

C + .12 - .06



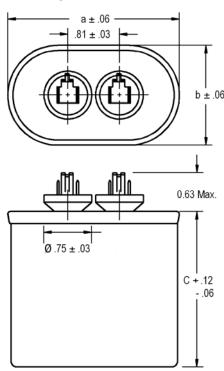




# HID Lighting Capacitors – GEM III 100°C Max – Single Ratings – 1 Section

Voltage	Capacitance	Catalog	Case	Base	Can	Height	UL
(VAC)	(μF)	Number	Style	Size (in.)	Туре	C (in.)	Code
280	48.0	27L7000	С	1.75	Oval	3.88	P923
330	14.0	27L7002	Α	1.25	Oval	3.12	P921
330	26.0	27L7003	С	1.75	Oval	2.88	P923
360	24.0	27L7004	С	1.75	Oval	3.12	P923
400	10.0	27L7001	С	1.75	Oval	2.88	P922
400	24.0	27L7009	С	1.75	Oval	3.12	P923

## Case Style A and C



Case Style	а	b
Α	2.16	1.31
С	2.91	1.91





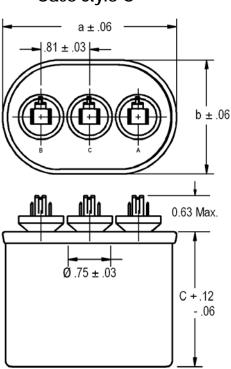


## HID Lighting Capacitors – GEM III

100°C Max - Dual Ratings - 2 Sections

Ī	Voltage	Capacitance		Catalog	Case	Base	Can	Height	UL
	(VAC)	Main (µF)	Aux. (μF)	Number	Style	Size (in.)	Туре	C (in.)	Code
ı	280	36.0	12.0	27L7005	С	1.75	Oval	3.88	P923
I	330	11.0	6.0	27L7008	С	1.75	Oval	3.88	P923
I	330	18.0	8.0	27L7007	С	1.75	Oval	2.88	P923

## Case Style C



Case Style	а	b	
С	2.91	1.91	
D	3.66	1.97	

MAIN SECTION: C to A

AUXILIARY SECTION: B to C





