# **Type SF Lighting Capacitors, 90 °C Rated** AC Rated, Metallized Polypropylene Capacitors

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For better performance in HID Lighting and HV Ballasts, Type SF oval and round oil filled metallized polypropylene lighting capacitors are built for operating in the high temperature environments for high intensity discharge (HID) lighting and other high voltage ballast applications. Each HID catalog capacitor includes an external resistor that discharges the capacitor to less than 50V in one minute.

#### Highlights

- Casing: aluminum
- Paint: (U. L. recognized) optional
- Meets EIA Standard EIA-456-A
- cULus recognized File Number E71645

## **Specifications**

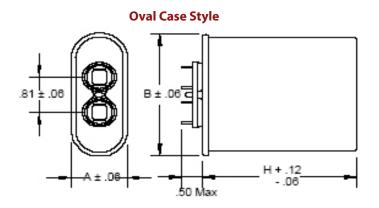
Capacitance Range	5.0 μF to 55 μF		
Capacitance Tolerance	±3%		
Rated Voltage	280 Vac to 525 Vac, other voltages available		
Operating Temperature Range with Ripple -40 °C to +90 °C			
Operating Frequency	50 - 60 Hz		
Regulatory Information			

#### **Part Numbering System**

SF 	с 	<b>40</b> 	T 	15 	L 	<b>291</b> 	к 	-F
Туре	Case Size	Voltage	Case Matl.	Сар	Tolerance	Can Height	Terminals	RoHS
SF	A = 1 1/4" Oval	28 = 280 Vac	T=Aluminum w/steel cover	7 = 7.0 μF	$L = \pm 3\%$		K = 2-tine with	Compliant
	B = 1 1/2" Oval	30 = 300 Vac		32 = 32.0 μF		391 = 3.91	fork and external	
	C = 1 3/4" Oval	33 = 330 Vac		19.5 = 19.5 μF			resistor, 90 °C	
	D = 2.0" Oval	40 = 400  Vac						
	P = 1 3/4" Round	48 = 480  Vac						
	S = 2.0" Round	52 = 525 Vac						

T = 2 1/2" Round

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Oval	Dimensions (Inches)			
Case Code	A B		н	
Α	1.31	2.16	See Ratings Table	
В	1.56	2.69	See Ratings Table	
c	1.91	2.91	See Ratings Table	
D	1.97	3.66	See Ratings Table	

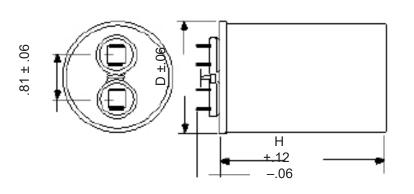
Construction Details			
Case Material Aluminum			
Encapsulation	Enviromentally Safe Dielectric Fluid (Dry construction optional)		
Terminal Material	Tin Plated Steel		

## **Oval Ratings**

Cap.		Aluminum Catalog	н
(μF)	Code		
(μι)	coue	280V	(inches)
5.0	Α	SFA28T5L156K-F	1.56
7.0	A	SFA28T7L156K-F	1.56
10.0	A	SFA28T10L288K-F	2.88
12.0	A	SFA28T12L288K-F	2.88
14.0	A	SFA28T14L288K-F	2.88
17.5	C	SFC28T17.5L291K-F	
20.0	C	SFC28T20L291K-F	2.91
35.0	C	SFC28T35L291K-F	2.91
48.0	С	SFC28T48L391K-F	3.91
55.0	С	SFC28T55L391K-F	3.91
		300V	
10.0	А	SFA30T10L288K-F	2.88
12.0	А	SFA30T12L288K-F	2.88
14.0	А	SFA30T14L288K-F	2.88
16.0	С	SFC30T16L291K-F	2.91
20.0	С	SFC30T20L291K-F	2.91
		330V	
22.5	С	SFC33T22.5L291K-F	2.91
24.0	С	SFC33T24L291K-F	2.91
26.0	С	SFC33T26L291K-F	2.91
28.0	С	SFC33T28L291K-F	2.91
30.0	С	SFC33T30L291K-F	2.91
		400V	
10.0	А	SFA40T10L288K-F	2.88
15.0	С	SFC40T15L291K-F	2.91
19.5	С	SFC40T19.5L291K-F	2.91
20.5	С	SFC40T20.5L291K-F	2.91
24.0	С	SFC40T24L391K-F	3.91
		480V	
12.0	С	SFC48T12L291K-F	2.91
15.0	С	SFC48T15L291K-F	2.91
18.0	С	SFC48T18L291K-F	2.91
19.0	С	SFC48T19L291K-F	2.91
21.0	С	SFC48T21L391K-F	3.91
24.0	С	SFC48T24L391K-F	3.91
	0	525V	
16.0	С	SFC52T16L391K-F	3.91
26.0	D	SFD52T26L391K-F	3.91
32.0	D	SFD52T32L391K-F	3.91

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#### **Round Case Style**



Case Code	D (Inches)	н	
Р	1.87	See Ratings Table	
S	2.12	See Ratings Table	
т	2.62	See Ratings Table	

Construction Details			
Case Material	Aluminum		
Encapsulation Enviromentally Safe Dielectric Fluic (Dry construction optional)			
Terminal Material	Tin Plated Steel		

### **Round Ratings**

Cap.	Case	Aluminum Catalog	н			
(μF)	Code	Part Number	(inches)			
280V						
5.0	Р	SFP28T5L238K-F	2.38			
7.0	Р	SFP28T7L238K-F	2.38			
10.0	Р	SFP28T10L238K-F	2.38			
12.0	Р	SFP28T12L238K-F	2.38			
14.0	Р	SFP28T14L238K-F	2.38			
17.5	Р	SFP28T17.5L238K-F	2.38			
20.0	Р	SFP28T20L284K-F	2.84			
35.0	Р	SFP28T35L284K-F	2.84			
48.0	Р	SFP28T48L384K-F	3.84			
55.0	S	SFS28T55L384K-F	3.84			
		300V				
10.0	Р	SFP30T10L238K-F	2.38			
12.0	Р	SFP30T12L238K-F	2.38			
14.0	Р	SFP30T14L238K-F	2.38			
16.0	Р	SFP30T16L238K-F	2.38			
20.0	Р	SFP30T20L238K-F	2.38			
		330V				
22.5	Р	SFP33T22.5L284K-F	2.84			
24.0	Р	SFP33T24L284K-F	2.84			
26.0	Р	SFP33T26L284K-F	2.84			
28.0	Р	SFP33T28L284K-F	2.84			
30.0	Р	SFP33T30L284K-F	2.84			
		400V				
10.0	Р	SFP40T10L284K-F	2.84			
15.0	Р	SFP40T15L284K-F	2.84			
19.5	Р	SFP40T19.5L284K-F	2.84			
20.5	Р	SFP40T20.5L284K-F	2.84			
24.0	Р	SFP40T24L384K-F	3.84			
480V						
12.0	Р	SFP48T12L284K-F	2.84			
15.0	Р	SFP48T15L284K-F	2.84			
18.0	S	SFS48T18L291K-F	2.91			
19.0	S	SFS48T19L291K-F	2.91			
21.0	S	SFS48T21L291K-F	2.91			
24.0	Р	SFP48T24L384K-F	3.84			
		525V				
16.0	S	SFS52T16L291K-F	2.91			
26.0	Т	SFT52T26L391K-F	3.91			
32.0	Т	SFT52T32L391K-F	3.91			

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