

Type SF Lighting Capacitors, 90 °C Rated, Oil Filled

AC Rated, Oil Filled/Impregnated, Metallized Polypropylene Capacitors



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, and the oil filled process assures better reliability than dry capacitors.

Highlights

- Casing: aluminum standard, tin-plated steel optional
- Paint: (U. L. recognized) optional
- Meets EIA Standard EIA-456-A

Specifications

Capacitance Range	5.0 μ F to 55 μ F
Capacitance Tolerance	$\pm 3\%$
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
RoHS Compliant	

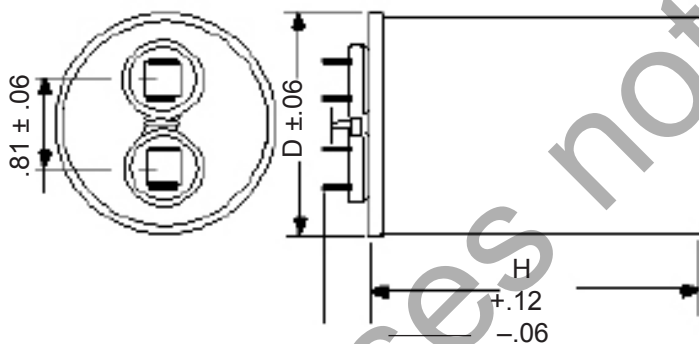
Dimensions

[Click here to view hardware](#)

Construction Details

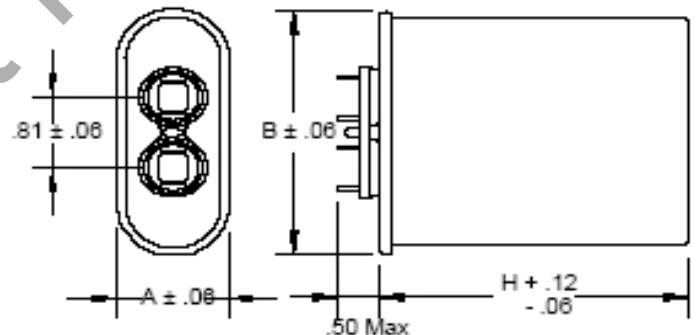
Case Material	Aluminum or Tin Plated Steel
Encapsulation	Environmentally Safe Dielectric Fluid
Terminal Material	Tin Plated Steel

Round Case Style



Case Code	D (Inches)	H
P	1.87	See Ratings Table
S	2.12	See Ratings Table
T	2.62	See Ratings Table

Oval Case Style



Oval Case Code	Dimensions (Inches)		
	A	B	H
A	1.31	2.16	See Ratings Table
B	1.56	2.69	See Ratings Table
C	1.91	2.91	See Ratings Table
D	1.97	3.66	See Ratings Table

Part Numbering System

SF	C	40	T	15	L	291	K	-F
Type	Case Size	Voltage	Case Matl.	Cap	Tolerance	Can Height	Terminals	RoHS
SF	A = 1 1/4" Oval	28 = 280 Vac	T=Aluminum w/steel cover	7 = 7.0 μ F	L = $\pm 3\%$	291 = 2.91	K = 2-tine with	Compliant
	B = 1 1/2" Oval	30 = 300 Vac	S = Steel	32 = 32.0 μ F		391 = 3.91	fork and external	
	C = 1 3/4" Oval	33 = 330 Vac		19.5 = 19.5 μ F			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 Ratings

Cap. (μF)	Case Code	Aluminum Catalog Part Number	H (inches)	Steel Catalog Part Number*	H (Inches)
280V					
5.0	A	SFA28T5L156K-F	1.56	SFA28S5L156K-F	1.56
7.0	A	SFA28T7L156K-F	1.56	SFA28S7L156K-F	1.56
10.0	A	SFA28T10L288K-F	2.88	SFA28S10L288K-F	2.88
12.0	A	SFA28T12L288K-F	2.88	SFA28S12L288K-F	2.88
14.0	A	SFA28T14L288K-F	2.88	SFA28S14L288K-F	2.88
17.5	C	SFC28T17.5L291K-F	2.91	SFC28S17.5L291K-F	2.91
20.0	C	SFC28T20L291K-F	2.91	SFC28S20L291K-F	2.91
35.0	C	SFC28T35L291K-F	2.91	SFC28S35L291K-F	2.91
48.0	C	SFC28T48L391K-F	3.91	SFC28S48L391K-F	3.91
55.0	C	SFC28T55L391K-F	3.91	SFC28S55L391K-F	3.91
300V					
10.0	A	SFA30T10L288K-F	2.88	SFA30S10L288K-F	2.88
12.0	A	SFA30T12L288K-F	2.88	SFA30S12L288K-F	2.88
14.0	A	SFA30T14L288K-F	2.88	SFA30S14L288K-F	2.88
16.0	C	SFC30T16L291K-F	2.91	SFC30S16L291K-F	2.91
20.0	C	SFC30T20L291K-F	2.91	SFC30S20L291K-F	2.91
330V					
22.5	C	SFC33T22.5L291K-F	2.91	SFC33S22.5L291K-F	2.91
24.0	C	SFC33T24L291K-F	2.91	SFC33S24L291K-F	2.91
26.0	C	SFC33T26L291K-F	2.91	SFC33S26L291K-F	2.91
28.0	C	SFC33T28L291K-F	2.91	SFC33S28L291K-F	2.91
30.0	C	SFC33T30L291K-F	2.91	SFC33S30L291K-F	2.91
400V					
10.0	A	SFA40T10L288K-F	2.88	SFA40S10L288K-F	2.88
15.0	C	SFC40T15L291K-F	2.91	SFC40S15L291K-F	2.91
19.5	C	SFC40T19.5L291K-F	2.91	SFC40S19.5L291K-F	2.91
20.5	C	SFC40T20.5L291K-F	2.91	SFC40S20.5L291K-F	2.91
24.0	C	SFC40T24L391K-F	3.91	SFC40S24L391K-F	3.91
480V					
12.0	C	SFC48T12L291K-F	2.91	SFC48S12L291K-F	2.91
15.0	C	SFC48T15L291K-F	2.91	SFC48S15L291K-F	2.91
18.0	C	SFC48T18L291K-F	2.91	SFC48S18L291K-F	2.91
19.0	C	SFC48T19L291K-F	2.91	SFC48S19L291K-F	2.91
21.0	C	SFC48T21L391K-F	3.91	SFC48S21L391K-F	3.91
24.0	C	SFC48T24L391K-F	3.91	SFC48S24L391K-F	3.91
525V					
16.0	C	SFC52T16L391K-F	3.91	SFC52S16L391K-F	3.91
26.0	D	SFD52T26L391K-F	3.91	SFD52S26L391K-F	3.91
32.0	D	SFD52T32L391K-F	3.91	SFD52S32L391K-F	3.91

Round Ratings

Cap. (μF)	Case Code	Aluminum Catalog Part Number	H (inches)	Steel Catalog Part Number*	H (Inches)
280V					
5.0	P	SFP28T5L238K-F	2.38	SFP28S5L238K-F	2.38
7.0	P	SFP28T7L238K-F	2.38	SFP28S7L238K-F	2.38
10.0	P	SFP28T10L238K-F	2.38	SFP28S10L238K-F	2.38
12.0	P	SFP28T12L238K-F	2.38	SFP28S12L238K-F	2.38
14.0	P	SFP28T14L238K-F	2.38	SFP28S14L238K-F	2.38
17.5	P	SFP28T17.5L238K-F	2.38	SFP28S17.5L238K-F	2.38
20.0	P	SFP28T20L284K-F	2.84	SFP28S20L288K-F	2.88
35.0	P	SFP28T35L284K-F	2.84	SFP28S35L288K-F	2.88
48.0	P	SFP28T48L384K-F	3.84	SFP28S48L375K-F	3.75
55.0	S	SFS28T55L384K-F	3.84	SFS28S55L375K-F	3.75
300V					
10.0	P	SFP30T10L238K-F	2.38	SFP30S10L238K-F	2.38
12.0	P	SFP30T12L238K-F	2.38	SFP30S12L238K-F	2.38
14.0	P	SFP30T14L238K-F	2.38	SFP30S14L238K-F	2.38
16.0	P	SFP30T16L238K-F	2.38	SFP30S16L238K-F	2.38
20.0	P	SFP30T20L238K-F	2.38	SFP30S20L238K-F	2.38
330V					
22.5	P	SFP33T22.5L284K-F	2.84	SFP33S22.5L288K-F	2.88
24.0	P	SFP33T24L284K-F	2.84	SFP33S24L288K-F	2.88
26.0	P	SFP33T26L284K-F	2.84	SFP33S26L288K-F	2.88
28.0	P	SFP33T28L284K-F	2.84	SFP33S28L288K-F	2.88
30.0	P	SFP33T30L284K-F	2.84	SFP33S30L288K-F	2.88
400V					
10.0	P	SFP40T10L284K-F	2.84	SFP40S10L288K-F	2.88
15.0	P	SFP40T15L284K-F	2.84	SFP40S15L288K-F	2.88
19.5	P	SFP40T19.5L284K-F	2.84	SFP40S19.5L288K-F	2.88
20.5	P	SFP40T20.5L284K-F	2.84	SFP40S20.5L288K-F	2.88
24.0	P	SFP40T24L384K-F	3.84	SFP40S24L375K-F	3.75
480V					
12.0	P	SFP48T12L284K-F	2.84	SFP48S12L288K-F	2.88
15.0	P	SFP48T15L284K-F	2.84	SFP48S15L288K-F	2.88
18.0	S	SFS48T18L291K-F	2.91	SFS48S18L288K-F	2.88
19.0	S	SFS48T19L291K-F	2.91	SFS48S19L288K-F	2.88
21.0	S	SFS48T21L291K-F	2.91	SFS48S21L288K-F	2.88
24.0	P	SFP48T24L384K-F	3.84	SFP48S24L375K-F	3.75
525V					
16.0	S	SFS52T16L291K-F	2.91	SFS52S16L288K-F	2.88
26.0	T	SFT52T26L391K-F	3.91	SFT52S26L391K-F	3.91
32.0	T	SFT52T32L391K-F	3.91	SFT52S32L391K-F	3.91

*Steel cases are not for new design. Check parametric search for product availability.

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