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

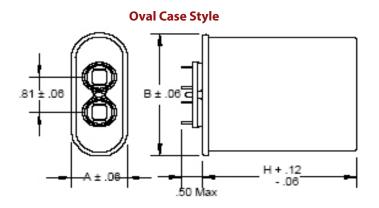
| Capacitance Range | 5.0 μF to 55 μF | | |
|--|--|--|--|
| Capacitance Tolerance | ±3% | | |
| Rated Voltage | 280 Vac to 525 Vac, other voltages available | | |
| Operating Temperature Range with Ripple -40 °C to +90 °C | | | |
| Operating Frequency | 50 - 60 Hz | | |
| Regulatory Information | | |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

Part Numbering System

| SF | с | 40 | T | 15 | L | 291 | 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 | |

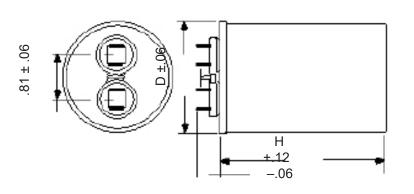
| Construction Details | | | |
|------------------------|---|--|--|
| Case Material Aluminum | | | |
| Encapsulation | Enviromentally Safe Dielectric Fluid (Dry construction optional) | | |
| Terminal Material | Tin Plated Steel | | |

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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