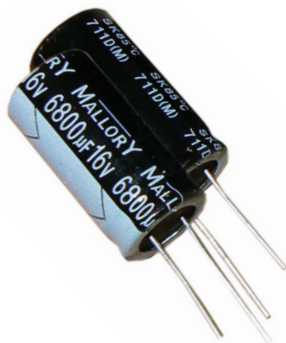


# Type SK 85 °C Radial Leaded Aluminum Electrolytic Capacitors

## 2000 Hour Long Life, General Purpose Aluminum Electrolytic



### Specifications

**Capacitance Range:** 0.47 to 15,000 µF

**Voltage Range:** 6.3 to 450 Vdc

**Capacitance Tolerance:** ±20%

**Operating Temperature Range:** -40 °C to +85 °C; 6.3 to 100 Vdc

-25 °C to +85 °C; 160 to 450 Vdc

**DC Leakage Current:** 6.3 to 100 Vdc;  $I \leq .01CV$  or 3 µA Max

Whichever is greater after 2 minutes application of DC working voltage at 20 °C

≥100 Vdc;  $I \leq .03CV$  or 10 µA Max

Whichever is greater after 2 minutes application of DC working voltage at 20 °C

C = Capacitance in (µF)

V = Rated voltage

I = Leakage current in µA

**Dissipation Factor @ 120 Hz, +20 °C:**

| WV (V) | 6.3 | 10 | 16 | 25 | 35 | 50 | 63 | 100 | 160-250 | 350-450 |
|--------|-----|----|----|----|----|----|----|-----|---------|---------|
| DF(%)  | 24  | 20 | 16 | 14 | 12 | 10 | 10 | 10  | 20      | 24      |

**Ripple Multipliers for Voltage and Temperature:**

For capacitance values > 1000 µF, the DF (%) value is increased 2% for every additional 1000 µF

| Rated WVDC | Ripple Multipliers |       |      |
|------------|--------------------|-------|------|
|            | 60Hz               | 120Hz | 1kHz |
| 6 to 25    | 0.85               | 1.0   | 1.1  |
| 35 to 100  | 0.75               | 1.0   | 1.3  |
| 160 to 250 | 0.70               | 1.0   | 1.4  |



Complies with the EU Directive 2002/95/EC requirement restricting the use of Lead (Pb), Mercury (Hg), Cadmium (Cd), Hexavalent chromium (Cr(VI)), PolyBrominated Biphenyls (PBB) and PolyBrominated Diphenyl Ethers (PBDE).

| Ambient Temperature | Ripple Multiplier |
|---------------------|-------------------|
| +85 °C              | 1.00              |
| +75 °C              | 1.14              |
| +65 °C              | 1.25              |

**Load Life:** Apply WVDC for 2000 hours at +85 °C

Capacitance change within 20% of initial limit

DF not to exceed 200% of initial requirement

Leakage current meets initial limits

**Shelf Life:** 1000 hrs at +85 °C with no voltage applied

Cap change within 20% of initial values

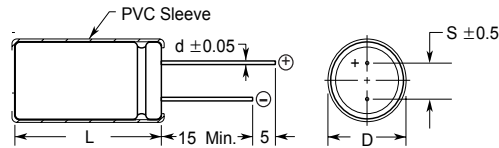
DF ≤ 200% of initial requirements

DC leakage current meets initial measured value

# Type SK 85 °C Radial Leaded Aluminum Electrolytic Capacitors

## Outline Drawing

### Outline Dimensions (Millimeters)



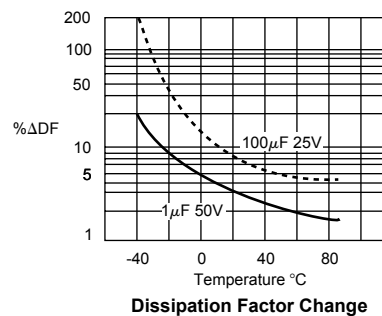
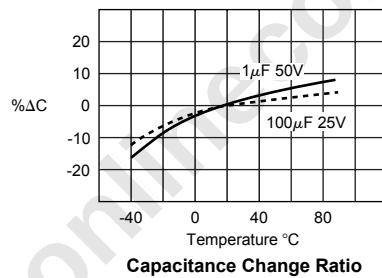
Case vented on diameters 6.3 and greater

Vinyl sleeve adds .5 Max. to diameter and 2.0 Max. to length

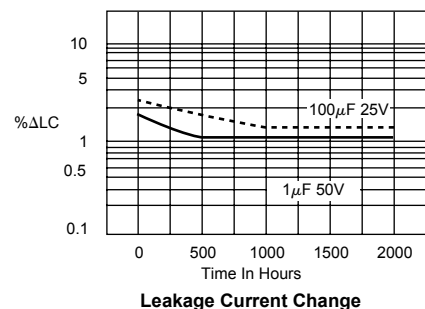
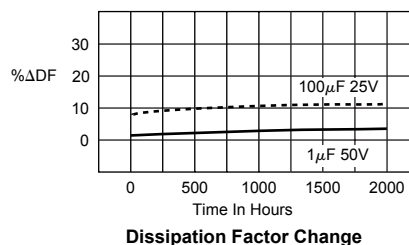
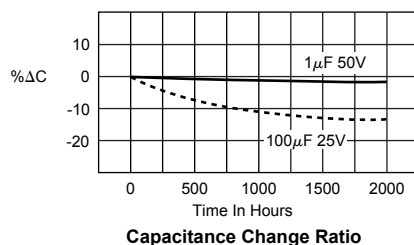
## Part Numbering System

| SK   | 100                                            | M                               | 100                                | S                                                                                  | T                                                                            |
|------|------------------------------------------------|---------------------------------|------------------------------------|------------------------------------------------------------------------------------|------------------------------------------------------------------------------|
| Type | Capacitance<br>( $\mu\text{F}$ )               | Capacitance<br>Tolerance<br>(%) | Rated<br>Voltage<br>(Vdc)          | Packaging                                                                          | Lead<br>Configuration                                                        |
| SK   | 1R0 = 1<br>100 = 10<br>101 = 100<br>102 = 1000 | K = $\pm 10$<br>M = $\pm 20$    | 6R3 = 6.3<br>010 = 10<br>100 = 100 | A = Tape & Ammo<br>E = Different Characteristic<br>R = Tape & Reel<br>S = Standard | 1 = Lead cut<br>2 = Lead form<br>4 = Lead crimp & cut (form)<br>T = Standard |

## Temperature Characteristics



## Load Life Characteristics



# Type SK 85 °C Radial Leaded Aluminum Electrolytic Capacitors

## Ratings

| Cap<br>(µF)             | Catalog<br>Part Number | Max ESR                 | Max Ripple               | Size in. (mm)   |               |                   |                  |
|-------------------------|------------------------|-------------------------|--------------------------|-----------------|---------------|-------------------|------------------|
|                         |                        | 120 Hz<br>+25 °C<br>(Ω) | 120 Hz<br>+85 °C<br>(mA) | Diameter<br>(D) | Length<br>(L) | Lead Space<br>(S) | Lead Dia.<br>(d) |
| 6.3 Vdc (8 Volts Surge) |                        |                         |                          |                 |               |                   |                  |
| 100                     | SK101M6R3ST            | 2.92                    | 130                      | .197 (5.0)      | .433 (11.0)   | .079 (2.0)        | .0197 (0.5)      |
| 220                     | SK221M6R3ST            | 1.33                    | 240                      | .248 (6.3)      | .433 (11.0)   | .098 (2.5)        | .0197 (0.5)      |
| 330                     | SK331M6R3ST            | 0.88                    | 300                      | .248 (6.3)      | .433 (11.0)   | .098 (2.5)        | .0197 (0.5)      |
| 470                     | SK471M6R3ST            | 0.62                    | 380                      | .315 (8.0)      | .453 (11.5)   | .138 (3.5)        | .0236 (0.6)      |
| 1000                    | SK102M6R3ST            | 0.29                    | 580                      | .394 (10.0)     | .512 (13.0)   | .197 (5.0)        | .0236 (0.6)      |
| 2200                    | SK222M6R3ST            | 0.14                    | 1050                     | .394 (10.0)     | .827 (21.0)   | .197 (5.0)        | .0236 (0.6)      |
| 3300                    | SK332M6R3ST            | 0.10                    | 1250                     | .512 (13.0)     | .827 (21.0)   | .197 (5.0)        | .0236 (0.6)      |
| 4700                    | SK472M6R3ST            | 0.08                    | 1700                     | .512 (13.0)     | .984 (26.0)   | .197 (5.0)        | .0236 (0.6)      |
| 6800                    | SK682M6R3ST            | 0.07                    | 1900                     | .630 (16.0)     | .984 (25.0)   | .295 (7.5)        | .0315 (0.8)      |
| 10000                   | SK103M6R3ST            | 0.05                    | 2250                     | .630 (16.0)     | 1.26 (32.0)   | .295 (7.5)        | .0315 (0.8)      |
| 15000                   | SK153M6R3ST            | 0.04                    | 2680                     | .630 (16.0)     | 1.38 (35.0)   | .295 (7.5)        | .0315 (0.8)      |
| 10 Vdc (13 Volts Surge) |                        |                         |                          |                 |               |                   |                  |
| 33                      | SK330M010ST            | 7.64                    | 80                       | .197 (5.0)      | .433 (11.0)   | .079 (2.0)        | .0197 (0.5)      |
| 47                      | SK470M010ST            | 5.36                    | 95                       | .197 (5.0)      | .433 (11.0)   | .079 (2.0)        | .0197 (0.5)      |
| 100                     | SK101M010ST            | 2.52                    | 180                      | .197 (5.0)      | .433 (11.0)   | .079 (2.0)        | .0197 (0.5)      |
| 220                     | SK221M010ST            | 1.15                    | 250                      | .248 (6.3)      | .433 (11.0)   | .098 (2.5)        | .0197 (0.5)      |
| 330                     | SK331M010ST            | 0.76                    | 330                      | .315 (8.0)      | .433 (11.0)   | .138 (3.5)        | .0236 (0.6)      |
| 470                     | SK471M010ST            | 0.54                    | 400                      | .315 (8.0)      | .433 (11.0)   | .138 (3.5)        | .0236 (0.6)      |
| 1000                    | SK102M010ST            | 0.25                    | 630                      | .394 (10.0)     | .630 (16.0)   | .197 (5.0)        | .0236 (0.6)      |
| 2200                    | SK222M010ST            | 0.14                    | 1100                     | .394 (10.0)     | .827 (21.0)   | .197 (5.0)        | .0236 (0.6)      |
| 3300                    | SK332M010ST            | 0.10                    | 1400                     | .512 (13.0)     | .827 (21.0)   | .197 (5.0)        | .0236 (0.6)      |
| 4700                    | SK472M010ST            | 0.08                    | 1800                     | .630 (16.0)     | .984 (25.0)   | .295 (7.5)        | .0315 (0.8)      |
| 6800                    | SK682M010ST            | 0.07                    | 2150                     | .630 (16.0)     | 1.26 (32.0)   | .295 (7.5)        | .0315 (0.8)      |
| 10000                   | SK103M010ST            | 0.05                    | 2500                     | .709 (18.0)     | 1.38 (35.0)   | .295 (7.5)        | .0315 (0.8)      |
| 15000                   | SK153M010ST            | 0.04                    | 2950                     | .709 (18.0)     | 1.65 (42.0)   | .295 (7.5)        | .0315 (0.8)      |
| 16 Vdc (20 Volts Surge) |                        |                         |                          |                 |               |                   |                  |
| 22                      | SK220M016ST            | 9.65                    | 75                       | .197 (5.0)      | .433 (11.0)   | .079 (2.0)        | .0197 (0.5)      |
| 33                      | SK330M016ST            | 6.43                    | 110                      | .197 (5.0)      | .433 (11.0)   | .079 (2.0)        | .0197 (0.5)      |
| 47                      | SK470M016ST            | 4.52                    | 130                      | .197 (5.0)      | .433 (11.0)   | .079 (2.0)        | .0197 (0.5)      |
| 100                     | SK101M016ST            | 2.12                    | 185                      | .248 (6.3)      | .433 (11.0)   | .098 (2.5)        | .0197 (0.5)      |
| 220                     | SK221M016ST            | 0.97                    | 320                      | .315 (8.0)      | .453 (11.5)   | .138 (3.5)        | .0236 (0.6)      |
| 330                     | SK331M016ST            | 0.64                    | 360                      | .315 (8.0)      | .453 (11.5)   | .138 (3.5)        | .0236 (0.6)      |
| 470                     | SK471M016ST            | 0.45                    | 470                      | .394 (10.0)     | .512 (13.0)   | .197 (5.0)        | .0236 (0.6)      |
| 1000                    | SK102M016ST            | 0.21                    | 790                      | .394 (10.0)     | .827 (21.0)   | .197 (5.0)        | .0236 (0.6)      |
| 2200                    | SK222M016ST            | 0.14                    | 1350                     | .512 (13.0)     | .827 (21.0)   | .197 (5.0)        | .0236 (0.6)      |
| 3300                    | SK332M016ST            | 0.10                    | 1700                     | .512 (13.0)     | .984 (26.0)   | .197 (5.0)        | .0236 (0.6)      |
| 4700                    | SK472M016ST            | 0.08                    | 2100                     | .630 (16.0)     | 1.26 (32.0)   | .295 (7.5)        | .0315 (0.8)      |
| 6800                    | SK682M016ST            | 0.07                    | 2500                     | .709 (18.0)     | 1.38 (35.0)   | .295 (7.5)        | .0315 (0.8)      |
| 10000                   | SK103M016ST            | 0.05                    | 2700                     | .709 (18.0)     | 1.65 (42.0)   | .295 (7.5)        | .0315 (0.8)      |
| 25 Vdc (32 Volts Surge) |                        |                         |                          |                 |               |                   |                  |
| 10                      | SK100M025ST            | 18.57                   | 50                       | .197 (5.0)      | .433 (11.0)   | .079 (2.0)        | .0197 (0.5)      |
| 22                      | SK220M025ST            | 8.44                    | 90                       | .197 (5.0)      | .433 (11.0)   | .079 (2.0)        | .0197 (0.5)      |
| 33                      | SK330M025ST            | 5.63                    | 110                      | .197 (5.0)      | .433 (11.0)   | .079 (2.0)        | .0197 (0.5)      |
| 47                      | SK470M025ST            | 3.95                    | 130                      | .197 (5.0)      | .433 (11.0)   | .079 (2.0)        | .0197 (0.5)      |
| 100                     | SK101M025ST            | 1.85                    | 185                      | .248 (6.3)      | .433 (11.0)   | .098 (2.5)        | .0197 (0.5)      |

# Type SK 85 °C Radial Leaded Aluminum Electrolytic Capacitors

| Cap<br>(μF)             | Catalog<br>Part Number | Max ESR                 | Max Ripple               | Size in. (mm)   |               |                   |                  |
|-------------------------|------------------------|-------------------------|--------------------------|-----------------|---------------|-------------------|------------------|
|                         |                        | 120 Hz<br>+25 °C<br>(Ω) | 120 Hz<br>+85 °C<br>(mA) | Diameter<br>(D) | Length<br>(L) | Lead Space<br>(S) | Lead Dia.<br>(d) |
| 25 Vdc (32 Volts Surge) |                        |                         |                          |                 |               |                   |                  |
| 220                     | SK221M025ST            | 0.84                    | 320                      | .315 (8.0)      | .453 (11.5)   | .138 (3.5)        | .0236 (0.6)      |
| 330                     | SK331M025ST            | 0.56                    | 420                      | .394 (10.0)     | .512 (13.0)   | .197 (5.0)        | .0236 (0.6)      |
| 470                     | SK471M025ST            | 0.39                    | 540                      | .394 (10.0)     | .630 (16.0)   | .197 (5.0)        | .0236 (0.6)      |
| 1,000                   | SK102M025ST            | 0.18                    | 950                      | .512 (13.0)     | .827 (21.0)   | .197 (5.0)        | .0236 (0.6)      |
| 2,200                   | SK222M025ST            | 0.14                    | 1550                     | .512 (13.0)     | .984 (26.0)   | .197 (5.0)        | .0236 (0.6)      |
| 3,300                   | SK332M025ST            | 0.10                    | 1950                     | .630 (16.0)     | 1.26 (32.0)   | .295 (7.5)        | .0315 (0.8)      |
| 4,700                   | SK472M025ST            | 0.08                    | 2360                     | .709 (18.0)     | 1.38 (35.0)   | .295 (7.5)        | .0315 (0.8)      |
| 6,800                   | SK682M025ST            | 0.06                    | 2550                     | .709 (18.0)     | 1.65 (42.0)   | .295 (7.5)        | .0315 (0.8)      |
| 35 Vdc (44 Volts Surge) |                        |                         |                          |                 |               |                   |                  |
| 10                      | SK100M035ST            | 15.92                   | 60                       | .197 (5.0)      | .433 (11.0)   | .079 (2.0)        | .0197 (0.5)      |
| 22                      | SK220M035ST            | 7.23                    | 95                       | .197 (5.0)      | .433 (11.0)   | .079 (2.0)        | .0197 (0.5)      |
| 33                      | SK330M035ST            | 4.82                    | 115                      | .197 (5.0)      | .433 (11.0)   | .079 (2.0)        | .0197 (0.5)      |
| 47                      | SK470M035ST            | 3.38                    | 140                      | .248 (6.3)      | .433 (11.0)   | .098 (2.5)        | .0197 (0.5)      |
| 100                     | SK101M035ST            | 1.59                    | 230                      | .315 (8.0)      | .453 (11.5)   | .138 (3.5)        | .0236 (0.6)      |
| 220                     | SK221M035ST            | 0.72                    | 370                      | .394 (10.0)     | .512 (13.0)   | .197 (5.0)        | .0236 (0.6)      |
| 330                     | SK331M035ST            | 0.48                    | 490                      | .394 (10.0)     | .630 (16.0)   | .197 (5.0)        | .0236 (0.6)      |
| 470                     | SK471M035ST            | 0.33                    | 640                      | .394 (10.0)     | .827 (21.0)   | .197 (5.0)        | .0236 (0.6)      |
| 1,000                   | SK102M035ST            | 0.15                    | 1100                     | .512 (13.0)     | .827 (21.0)   | .197 (5.0)        | .0236 (0.6)      |
| 2,200                   | SK222M035ST            | 0.14                    | 1800                     | .630 (16.0)     | 1.26 (32.0)   | .295 (7.5)        | .0315 (0.8)      |
| 3,300                   | SK332M035ST            | 0.10                    | 2220                     | .709 (18.0)     | 1.38 (35.0)   | .295 (7.5)        | .0315 (0.8)      |
| 4,700                   | SK472M035ST            | 0.08                    | 2400                     | .709 (18.0)     | 1.65 (42.0)   | .295 (7.5)        | .0315 (0.8)      |
| 50 Vdc (63 Volts Surge) |                        |                         |                          |                 |               |                   |                  |
| 0.47                    | SKR47M050ST            | 282.33                  | 5                        | .197 (5.0)      | .433 (11.0)   | .079 (2.0)        | .0197 (0.5)      |
| 1.0                     | SK010M050ST            | 132.70                  | 10                       | .197 (5.0)      | .433 (11.0)   | .079 (2.0)        | .0197 (0.5)      |
| 2.2                     | SK2R2M050ST            | 60.32                   | 23                       | .197 (5.0)      | .433 (11.0)   | .079 (2.0)        | .0197 (0.5)      |
| 3.3                     | SK3R3M050ST            | 40.21                   | 35                       | .197 (5.0)      | .433 (11.0)   | .079 (2.0)        | .0197 (0.5)      |
| 4.7                     | SK4R7M050ST            | 28.23                   | 40                       | .197 (5.0)      | .433 (11.0)   | .079 (2.0)        | .0197 (0.5)      |
| 10                      | SK100M050ST            | 13.27                   | 65                       | .197 (5.0)      | .433 (11.0)   | .079 (2.0)        | .0197 (0.5)      |
| 22                      | SK220M050ST            | 6.03                    | 100                      | .197 (5.0)      | .433 (11.0)   | .079 (2.0)        | .0197 (0.5)      |
| 33                      | SK330M050ST            | 4.02                    | 125                      | .248 (6.3)      | .433 (11.0)   | .098 (2.5)        | .0197 (0.5)      |
| 47                      | SK470M050ST            | 2.82                    | 150                      | .248 (6.3)      | .433 (11.0)   | .098 (2.5)        | .0197 (0.5)      |
| 100                     | SK101M050ST            | 1.33                    | 250                      | .315 (8.0)      | .433 (11.0)   | .138 (3.5)        | .0236 (0.6)      |
| 220                     | SK221M050ST            | 0.60                    | 440                      | .394 (10.0)     | .630 (16.0)   | .197 (5.0)        | .0236 (0.6)      |
| 330                     | SK331M050ST            | 0.40                    | 580                      | .394 (10.0)     | .827 (21.0)   | .197 (5.0)        | .0236 (0.6)      |
| 470                     | SK471M050ST            | 0.28                    | 760                      | .512 (13.0)     | .827 (21.0)   | .197 (5.0)        | .0236 (0.6)      |
| 1,000                   | SK102M050ST            | 0.13                    | 1350                     | .630 (16.0)     | .984 (25.0)   | .295 (7.5)        | .0315 (0.8)      |
| 2,200                   | SK222M050ST            | 0.14                    | 2090                     | .709 (18.0)     | 1.38 (35.0)   | .295 (7.5)        | .0315 (0.8)      |
| 3,300                   | SK332M050ST            | 0.10                    | 2320                     | .709 (18.0)     | 1.65 (42.0)   | .295 (7.5)        | .0315 (0.8)      |
| 63 Vdc (79 Volts Surge) |                        |                         |                          |                 |               |                   |                  |
| 0.47                    | SKR47M063ST            | 254.10                  | 5                        | .197 (5.0)      | .433 (11.0)   | .079 (2.0)        | .0197 (0.5)      |
| 1.0                     | SK010M063ST            | 119.43                  | 10                       | .197 (5.0)      | .433 (11.0)   | .079 (2.0)        | .0197 (0.5)      |
| 2.2                     | SK2R2M063ST            | 54.28                   | 29                       | .197 (5.0)      | .433 (11.0)   | .079 (2.0)        | .0197 (0.5)      |
| 3.3                     | SK3R3M063ST            | 36.19                   | 40                       | .197 (5.0)      | .433 (11.0)   | .079 (2.0)        | .0197 (0.5)      |
| 4.7                     | SK4R7M063ST            | 25.41                   | 45                       | .197 (5.0)      | .433 (11.0)   | .079 (2.0)        | .0197 (0.5)      |
| 10.0                    | SK100M063ST            | 11.94                   | 70                       | .197 (5.0)      | .433 (11.0)   | .079 (2.0)        | .0197 (0.5)      |

\* Note max leakage current ≥100 Vdc is measured at 3 minutes

# Type SK 85 °C Radial Leaded Aluminum Electrolytic Capacitors

| Cap<br>(µF)               | Catalog<br>Part Number | Max ESR<br>120 Hz<br>+25 °C<br>(Ω) | Max Ripple<br>120 Hz<br>+85 °C<br>(mA) | Size in. (mm)   |               |                   |                  |
|---------------------------|------------------------|------------------------------------|----------------------------------------|-----------------|---------------|-------------------|------------------|
|                           |                        |                                    |                                        | Diameter<br>(D) | Length<br>(L) | Lead Space<br>(S) | Lead Dia.<br>(d) |
| 63 Vdc (79 Volts Surge)   |                        |                                    |                                        |                 |               |                   |                  |
| 22                        | SK220M063ST            | 5.43                               | 115                                    | .248 (6.3)      | .433 (11.0)   | .098 (2.5)        | .0197 (0.5)      |
| 33                        | SK330M063ST            | 3.62                               | 140                                    | .248 (6.3)      | .433 (11.0)   | .098 (2.5)        | .0197 (0.5)      |
| 47                        | SK470M063ST            | 2.54                               | 190                                    | .315 (8.0)      | .433 (11.0)   | .138 (3.5)        | .0236 (0.6)      |
| 100                       | SK101M063ST            | 1.19                               | 300                                    | .394 (10.0)     | .512 (13.0)   | .197 (5.0)        | .0236 (0.6)      |
| 220                       | SK221M063ST            | 0.54                               | 490                                    | .394 (10.0)     | .827 (21.0)   | .197 (5.0)        | .0236 (0.6)      |
| 330                       | SK331M063ST            | 0.36                               | 680                                    | .512 (13.0)     | .827 (21.0)   | .197 (5.0)        | .0236 (0.6)      |
| 470                       | SK471M063ST            | 0.25                               | 880                                    | .512 (13.0)     | .984 (26.0)   | .197 (5.0)        | .0236 (0.6)      |
| 1,000                     | SK102M063ST            | 0.12                               | 1550                                   | .630 (16.0)     | 1.26 (32.0)   | .295 (7.5)        | .0315 (0.8)      |
| 100 Vdc (125 Volts Surge) |                        |                                    |                                        |                 |               |                   |                  |
| 0.47                      | SKR47M100ST            | 225.87                             | 10                                     | .197 (5.0)      | .433 (11.0)   | .079 (2.0)        | .0197 (0.5)      |
| 1                         | SK010M100ST            | 106.16                             | 21                                     | .197 (5.0)      | .433 (11.0)   | .079 (2.0)        | .0197 (0.5)      |
| 2.2                       | SK2R2M100ST            | 48.25                              | 30                                     | .197 (5.0)      | .433 (11.0)   | .079 (2.0)        | .0197 (0.5)      |
| 3.3                       | SK3R3M100ST            | 32.17                              | 40                                     | .197 (5.0)      | .433 (11.0)   | .079 (2.0)        | .0197 (0.5)      |
| 4.7                       | SK4R7M100ST            | 22.59                              | 50                                     | .197 (5.0)      | .433 (11.0)   | .079 (2.0)        | .0197 (0.5)      |
| 10                        | SK100M100ST            | 10.62                              | 75                                     | .248 (6.3)      | .433 (11.0)   | .098 (2.5)        | .0197 (0.5)      |
| 22                        | SK220M100ST            | 4.83                               | 130                                    | .315 (8.0)      | .433 (11.0)   | .138 (3.5)        | .0236 (0.6)      |
| 33                        | SK330M100ST            | 3.22                               | 170                                    | .394 (10.0)     | .512 (13.0)   | .197 (5.0)        | .0236 (0.6)      |
| 47                        | SK470M100ST            | 2.26                               | 230                                    | .394 (10.0)     | .630 (16.0)   | .197 (5.0)        | .0236 (0.6)      |
| 100                       | SK101M100ST            | 1.06                               | 400                                    | .512 (13.0)     | .827 (21.0)   | .197 (5.0)        | .0236 (0.6)      |
| 220                       | SK221M100ST            | 0.48                               | 710                                    | .630 (16.0)     | .984 (25.0)   | .295 (7.5)        | .0315 (0.8)      |
| 330                       | SK331M100ST            | 0.32                               | 860                                    | .630 (16.0)     | .984 (25.0)   | .295 (7.5)        | .0315 (0.8)      |
| 470                       | SK471M100ST            | 0.23                               | 1100                                   | .630 (16.0)     | 1.26 (32.0)   | .295 (7.5)        | .0315 (0.8)      |
| 160 Vdc (200 Volts Surge) |                        |                                    |                                        |                 |               |                   |                  |
| 0.47                      | SKR47M160ST            | 423.50                             | 12.0                                   | .248 (6.3)      | .433 (11.0)   | .098 (2.5)        | .0197 (0.5)      |
| 1.0                       | SK010M160ST            | 199.04                             | 17.0                                   | .248 (6.3)      | .433 (11.0)   | .098 (2.5)        | .0197 (0.5)      |
| 2.2                       | SK2R2M160ST            | 90.47                              | 26.0                                   | .248 (6.3)      | .433 (11.0)   | .098 (2.5)        | .0197 (0.5)      |
| 3.3                       | SK3R3M160ST            | 60.32                              | 35.0                                   | .248 (6.3)      | .433 (11.0)   | .098 (2.5)        | .0197 (0.5)      |
| 4.7                       | SK4R7M160ST            | 42.35                              | 40.0                                   | .248 (6.3)      | .433 (11.0)   | .098 (2.5)        | .0197 (0.5)      |
| 10                        | SK100M160ST            | 19.90                              | 65.0                                   | .315 (8.0)      | .433 (11.0)   | .138 (3.5)        | .0236 (0.6)      |
| 22                        | SK220M160ST            | 9.05                               | 110.0                                  | .394 (10.0)     | .630 (16.0)   | .197 (5.0)        | .0236 (0.6)      |
| 33                        | SK330M160ST            | 6.03                               | 150.0                                  | .394 (10.0)     | .827 (21.0)   | .197 (5.0)        | .0236 (0.6)      |
| 47                        | SK470M160ST            | 4.23                               | 180.0                                  | .512 (13.0)     | .827 (21.0)   | .197 (5.0)        | .0236 (0.6)      |
| 100                       | SK101M160ST            | 1.99                               | 300.0                                  | .512 (13.0)     | .984 (26.0)   | .197 (5.0)        | .0236 (0.6)      |
| 220                       | SK221M160ST            | 0.90                               | 510.0                                  | .630 (16.0)     | 1.42 (36.0)   | .295 (7.5)        | .0315 (0.8)      |
| 330                       | SK331M160ST            | 0.60                               | 600.0                                  | .709 (18.0)     | 1.65 (42.0)   | .295 (7.5)        | .0315 (0.8)      |
| 200 Vdc (250 Volts Surge) |                        |                                    |                                        |                 |               |                   |                  |
| 0.47                      | SKR47M200ST            | 423.50                             | 12                                     | .248 (6.3)      | .433 (11.0)   | .098 (2.5)        | .0197 (0.5)      |
| 1.0                       | SK010M200ST            | 199.04                             | 17                                     | .248 (6.3)      | .433 (11.0)   | .098 (2.5)        | .0197 (0.5)      |
| 2.2                       | SK2R2M200ST            | 90.47                              | 26                                     | .248 (6.3)      | .433 (11.0)   | .098 (2.5)        | .0197 (0.5)      |
| 3.3                       | SK3R3M200ST            | 60.32                              | 35                                     | .248 (6.3)      | .433 (11.0)   | .098 (2.5)        | .0197 (0.5)      |
| 4.7                       | SK4R7M200ST            | 42.35                              | 45                                     | .315 (8.0)      | .433 (11.0)   | .138 (3.5)        | .0236 (0.6)      |
| 10                        | SK100M200ST            | 19.90                              | 70                                     | .394 (10.0)     | .512 (13.0)   | .197 (5.0)        | .0236 (0.6)      |
| 22                        | SK220M200ST            | 9.05                               | 110                                    | .394 (10.0)     | .827 (21.0)   | .197 (5.0)        | .0236 (0.6)      |
| 33                        | SK330M200ST            | 6.03                               | 160                                    | .512 (13.0)     | .827 (21.0)   | .197 (5.0)        | .0236 (0.6)      |
| 47                        | SK470M200ST            | 4.23                               | 180                                    | .512 (13.0)     | .827 (21.0)   | .197 (5.0)        | .0236 (0.6)      |

\* Note max leakage current ≥100 Vdc is measured at 3 minutes

# Type SK 85 °C Radial Leaded Aluminum Electrolytic Capacitors

| Cap<br>(μF)               | Catalog<br>Part Number | Max ESR                 | Max Ripple               | Size in. (mm)   |               |                   |                  |
|---------------------------|------------------------|-------------------------|--------------------------|-----------------|---------------|-------------------|------------------|
|                           |                        | 120 Hz<br>+25 °C<br>(Ω) | 120 Hz<br>+85 °C<br>(mA) | Diameter<br>(D) | Length<br>(L) | Lead Space<br>(S) | Lead Dia.<br>(d) |
| 200 Vdc (250 Volts Surge) |                        |                         |                          |                 |               |                   |                  |
| 100                       | SK101M200ST            | 1.99                    | 330                      | .630 (16.0)     | .984 (25.0)   | .295 (7.5)        | .0315 (0.8)      |
| 220                       | SK221M200ST            | 0.90                    | 520                      | .709 (18.0)     | 1.65 (42.0)   | .295 (7.5)        | .0315 (0.8)      |
| 250 Vdc (300 Volts Surge) |                        |                         |                          |                 |               |                   |                  |
| 0.47                      | SKR47M250ST            | 423.50                  | 12                       | .248 (6.3)      | .433 (11.0)   | .098 (2.5)        | .0197 (0.5)      |
| 1.0                       | SK010M250ST            | 199.04                  | 17                       | .248 (6.3)      | .433 (11.0)   | .098 (2.5)        | .0197 (0.5)      |
| 2.2                       | SK2R2M250ST            | 90.47                   | 30                       | .248 (6.3)      | .433 (11.0)   | .098 (2.5)        | .0197 (0.5)      |
| 3.3                       | SK3R3M250ST            | 60.32                   | 35                       | .315 (8.0)      | .433 (11.0)   | .138 (3.5)        | .0236 (0.6)      |
| 4.7                       | SK4R7M250ST            | 42.35                   | 45                       | .315 (8.0)      | .433 (11.0)   | .138 (3.5)        | .0236 (0.6)      |
| 10                        | SK100M250ST            | 19.90                   | 70                       | .394 (10.0)     | .630 (16.0)   | .197 (5.0)        | .0236 (0.6)      |
| 22                        | SK220M250ST            | 9.05                    | 130                      | .512 (13.0)     | .827 (21.0)   | .197 (5.0)        | .0236 (0.6)      |
| 33                        | SK330M250ST            | 6.03                    | 160                      | .512 (13.0)     | .827 (21.0)   | .197 (5.0)        | .0236 (0.6)      |
| 47                        | SK470M250ST            | 4.23                    | 210                      | .512 (13.0)     | .984 (26.0)   | .197 (5.0)        | .0236 (0.6)      |
| 100                       | SK101M250ST            | 1.99                    | 310                      | .630 (16.0)     | 1.26 (32.0)   | .295 (7.5)        | .0315 (0.8)      |
| 350 Vdc (400 Volts Surge) |                        |                         |                          |                 |               |                   |                  |
| 0.47                      | SKR47M350ST            | 564.67                  | 14                       | .315 (8.0)      | .433 (11.0)   | .138 (3.5)        | .0236 (0.6)      |
| 1.0                       | SK010M350ST            | 265.39                  | 18                       | .315 (8.0)      | .433 (11.0)   | .138 (3.5)        | .0236 (0.6)      |
| 2.2                       | SK2R2M350ST            | 120.63                  | 28                       | .315 (8.0)      | .433 (11.0)   | .138 (3.5)        | .0236 (0.6)      |
| 3.3                       | SK3R3M350ST            | 80.42                   | 35                       | .394 (10.0)     | .512 (13.0)   | .197 (5.0)        | .0236 (0.6)      |
| 4.7                       | SK4R7M350ST            | 56.47                   | 40                       | .394 (10.0)     | .512 (13.0)   | .197 (5.0)        | .0236 (0.6)      |
| 10                        | SK100M350ST            | 26.54                   | 70                       | .394 (10.0)     | .827 (21.0)   | .197 (5.0)        | .0236 (0.6)      |
| 22                        | SK220M350ST            | 12.06                   | 110                      | .512 (13.0)     | .827 (21.0)   | .197 (5.0)        | .0236 (0.6)      |
| 33                        | SK330M350ST            | 8.04                    | 140                      | .512 (13.0)     | .984 (26.0)   | .197 (5.0)        | .0236 (0.6)      |
| 47                        | SK470M350ST            | 5.65                    | 220                      | .630 (16.0)     | .984 (25.0)   | .295 (7.5)        | .0315 (0.8)      |
| 100                       | SK101M350ST            | 2.65                    | 360                      | .709 (18.0)     | 1.42 (36.0)   | .295 (7.5)        | .0315 (0.8)      |
| 400 Vdc (450 Volts Surge) |                        |                         |                          |                 |               |                   |                  |
| 0.47                      | SKR47M400ST            | 564.67                  | 14                       | .315 (8.0)      | .433 (11.0)   | .138 (3.5)        | .0236 (0.6)      |
| 1.0                       | SK010M400ST            | 265.39                  | 18                       | .315 (8.0)      | .433 (11.0)   | .138 (3.5)        | .0236 (0.6)      |
| 2.2                       | SK2R2M400ST            | 120.63                  | 28                       | .315 (8.0)      | .433 (11.0)   | .138 (3.5)        | .0236 (0.6)      |
| 3.3                       | SK3R3M400ST            | 80.42                   | 32                       | .394 (10.0)     | .512 (13.0)   | .197 (5.0)        | .0236 (0.6)      |
| 4.7                       | SK4R7M400ST            | 56.47                   | 41                       | .394 (10.0)     | .630 (16.0)   | .197 (5.0)        | .0236 (0.6)      |
| 10                        | SK100M400ST            | 26.54                   | 70                       | .512 (13.0)     | .827 (21.0)   | .197 (5.0)        | .0236 (0.6)      |
| 22                        | SK220M400ST            | 12.06                   | 120                      | .512 (13.0)     | .984 (26.0)   | .197 (5.0)        | .0236 (0.6)      |
| 33                        | SK330M400ST            | 8.04                    | 140                      | .630 (16.0)     | .984 (25.0)   | .295 (7.5)        | .0315 (0.8)      |
| 47                        | SK470M400ST            | 5.65                    | 160                      | .630 (16.0)     | 1.26 (32.0)   | .295 (7.5)        | .0315 (0.8)      |
| 450 Vdc (500 Volts Surge) |                        |                         |                          |                 |               |                   |                  |
| 0.47                      | SKR47M450ST            | 564.67                  | 14                       | .315 (8.0)      | .433 (11.0)   | .138 (3.5)        | .0236 (0.6)      |
| 1.0                       | SK010M450ST            | 265.39                  | 19                       | .315 (8.0)      | .453 (11.5)   | .138 (3.5)        | .0236 (0.6)      |
| 2.2                       | SK2R2M450ST            | 120.63                  | 29                       | .394 (10.0)     | .512 (13.0)   | .197 (5.0)        | .0236 (0.6)      |
| 3.3                       | SK3R3M450ST            | 80.42                   | 35                       | .394 (10.0)     | .630 (16.0)   | .197 (5.0)        | .0236 (0.6)      |
| 4.7                       | SK4R7M450ST            | 56.47                   | 50                       | .394 (10.0)     | .709 (18.0)   | .197 (5.0)        | .0236 (0.6)      |
| 10                        | SK100M450ST            | 26.54                   | 75                       | .512 (13.0)     | .827 (21.0)   | .197 (5.0)        | .0236 (0.6)      |
| 22                        | SK220M450ST            | 12.06                   | 110                      | .630 (16.0)     | .984 (25.0)   | .295 (7.5)        | .0315 (0.8)      |
| 33                        | SK330M450ST            | 8.04                    | 150                      | .630 (16.0)     | 1.42 (36.0)   | .295 (7.5)        | .0315 (0.8)      |
| 47                        | SK470M450ST            | 5.65                    | 230                      | .630 (16.0)     | 1.57 (40.0)   | .295 (7.5)        | .0315 (0.8)      |