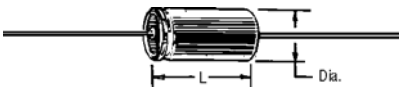


**Aluminum Electrolytic Capacitors**



**Type SKA Axial Miniature**

The SKA series is an axial lead, general purpose, miniature electronic capacitor. This series is suitable for those electronic products requiring small size. It is suitable for consumer electronic equipment, such as stereo radios, TV sets, etc. The aluminum case is enclosed in a vinyl sleeve. **Tolerance:** ±20%. **Operating Temperature Range:** -40° to +85°C.

| Stock No. | Mfr.'s Type | MFD | VDC | Case Size D × L (mm) | EACH |       |       | Stock No. | Mfr.'s Type | MFD  | VDC | Case Size D × L (mm) | EACH |       |       |
|-----------|-------------|-----|-----|----------------------|------|-------|-------|-----------|-------------|------|-----|----------------------|------|-------|-------|
|           |             |     |     |                      | 1-24 | 25-49 | 50-99 |           |             |      |     |                      | 1-24 | 25-49 | 50-99 |
| 852-5005  | SKA101M010  | 100 | 10  | 6 × 16.0             | 1.01 | .86   | .78   | 852-5140  | SKA102M035  | 1000 | 35  | 13 × 30.0            | 1.62 | 1.42  | 1.38  |
| 852-5010  | SKA471M010  | 470 | 10  | 8 × 20.0             | .48  | .41   | .38   | 852-5160  | SKA4R7M050  | 4.7  | 50  | 5 × 12.5             | .37  | .33   | .31   |
| 852-5030  | SKA101M016  | 100 | 16  | 6 × 16.0             | 1.09 | .92   | .84   | 852-5165  | SKA100M050  | 10   | 50  | 6 × 12.5             | .39  | .33   | .32   |
| 852-5035  | SKA221M016  | 220 | 16  | 8 × 16.0             | .54  | .47   | .45   | 852-5170  | SKA220M050  | 22   | 50  | 6 × 16.0             | .43  | .37   | .37   |
| 852-5006  | SKA331M016  | 330 | 16  | 8 × 20.0             | .60  | .53   | .46   | 852-5175  | SKA330M050  | 33   | 50  | 6 × 16.0             | .45  | .40   | .39   |
| 852-5084  | SKA220M025  | 22  | 25  | 6 × 12.5             | .61  | .45   | .39   | 852-5180  | SKA470M050  | 47   | 50  | 8 × 16.0             | .52  | .45   | .44   |
| 852-5065  | SKA330M025  | 33  | 25  | 6 × 12.5             | .40  | .35   | .35   | 852-5185  | SKA101M050  | 100  | 50  | 8 × 20.0             | .62  | .56   | .53   |
| 852-5075  | SKA101M025  | 100 | 25  | 8 × 16.0             | .51  | .45   | .45   | 852-5007  | SKA221M050  | 220  | 50  | 10 × 25.0            | .84  | .74   | .65   |
| 852-5040  | SKA221M025  | 220 | 25  | 8 × 20.0             | 1.76 | 1.34  | 1.17  | 852-5195  | SKA331M050  | 330  | 50  | 10 × 25.0            | 1.01 | .88   | .84   |
| 852-5085  | SKA331M025  | 330 | 25  | 10 × 16.0            | 1.58 | 1.07  | .89   | 852-5081  | SKA220M063  | 22   | 63  | 6 × 16.0             | .75  | .56   | .47   |
| 852-5090  | SKA471M025  | 470 | 25  | 10 × 20.0            | .80  | .69   | .68   | 852-5230  | SKA100M100  | 10   | 100 | 6 × 16.0             | .54  | .47   | .46   |
| 852-5083  | SKA100M035  | 10  | 35  | 5 × 12.5             | .61  | .45   | .39   | 852-5235  | SKA220M100  | 22   | 100 | 8 × 16.0             | .56  | .50   | .48   |
| 852-5105  | SKA220M035  | 22  | 35  | 6 × 12.5             | .40  | .35   | .35   | 852-5011  | SKA101M100  | 100  | 100 | 10 × 25.0            | 1.12 | .99   | .86   |
| 852-5115  | SKA470M035  | 47  | 35  | 6 × 16.0             | .45  | .39   | .35   | 852-5086  | SKA221M100  | 220  | 100 | 13 × 30.0            | 3.13 | 2.32  | 1.99  |
| 852-5120  | SKA101M035  | 100 | 35  | 8 × 16.0             | .53  | .47   | .45   | 852-5250  | SKA100M160  | 10   | 160 | 8 × 20.0             | .72  | .65   | .62   |
| 852-5125  | SKA221M035  | 220 | 35  | 10 × 16.0            | .72  | .63   | .62   | 852-8086  | SKA470M160  | 47   | 160 | 13 × 30.0            | 1.44 | 1.06  | .92   |
| 852-5135  | SKA471M035  | 470 | 35  | 10 × 25.0            | .98  | .85   | .83   | 852-5012  | SKA3R3M250  | 3.3  | 250 | 8 × 16.0             | .71  | .63   | .55   |

**TCG Series**

Long life, axial leads. The TCG is a small tubular axial version of the Mallory Type CG capacitor. The TCG features long life and low ESR and utilizes a PVC insulating sleeve as well as a safety vent on diameters 0.5 inches and larger. 7th digit of part number indicates tolerance. **Specifications. Capacitance Range:** 10 to 10,000 µF. **Voltage Range:** 10 to 450 WVDC. **Capacitance Tolerance:** T = -10%, +50%; U = -10%, +75%. **Operating Temperature:** -40°C to +85°C.

| Stock No. | Mfr.'s Type   | Cap. µF | WVDC | Case Size D × L (in.) | EACH  |       |       |
|-----------|---------------|---------|------|-----------------------|-------|-------|-------|
|           |               |         |      |                       | 1-24  | 25-49 | 50-99 |
| 852-1262  | TCG402U015N1L | 4000    | 15   | 1.000 × 1.625         | 10.96 | 8.27  | 6.97  |
| 852-1214  | TCG103U015N2L | 10000   | 15   | 1.000 × 2.625         | 8.38  | 7.48  | 7.10  |
| 852-1200  | TCG112U030G2L | 1100    | 30   | 0.625 × 2.625         | 13.53 | 12.30 | 11.27 |
| 852-1201  | TCG251U050G1G | 250     | 50   | 0.625 × 1.375         | 9.81  | 8.92  | 7.79  |
| 852-1230  | TCG601U050L1G | 600     | 50   | 0.875 × 1.375         | 9.03  | 7.87  | 7.41  |
| 852-1203  | TCG361T150N3C | 560     | 150  | 1.000 × 3.125         | 13.08 | 11.89 | 10.90 |
| 852-1240  | TCG101T250L2C | 100     | 250  | 0.875 × 2.125         | 7.43  | 6.48  | 6.09  |
| 852-1242  | TCG201T250N2L | 200     | 250  | 1.000 × 2.625         | 9.63  | 8.73  | 8.14  |
| 852-1243  | TCG300T350G2C | 30      | 350  | 0.625 × 2.125         | 7.92  | 7.19  | 6.70  |
| 852-1206  | TCG400T350N1C | 40      | 350  | 1.000 × 1.125         | 13.40 | 12.18 | 11.17 |
| 852-1248  | TCG101T350N2C | 100     | 350  | 1.000 × 2.125         | 10.27 | 9.34  | 8.69  |
| 852-1252  | TCG161T350N2L | 160     | 350  | 1.000 × 2.625         | 10.89 | 9.90  | 9.22  |
| 852-1250  | TCG181T350N3C | 180     | 350  | 1.000 × 3.125         | 12.27 | 11.16 | 10.38 |

**Type LP  
Low Profile Snap-In**



Aluminum electrolytic capacitors are designed for quick and easy snap-in insertion in PC board power supplies. Designed specifically for switching power supply applications. Can be utilized in other applications requiring high CV. Low ESR. High ripple capability. **Voltage:** 16 WVDC to 250 WVDC. **Tolerance:** ±20%. **Operating Temperature:** -40°C to +105°C. Lead spacing is 10 mm.

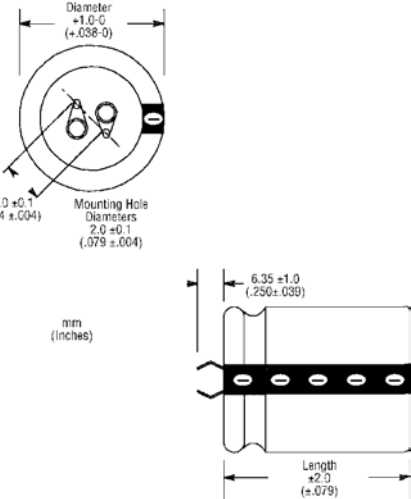
| Stock No. | Mfr.'s Type   | WVDC | MFD   | Case Size Dia. × L (mm) | EACH  |         |        |
|-----------|---------------|------|-------|-------------------------|-------|---------|--------|
|           |               |      |       |                         | 1-99  | 100-249 | 250-Up |
| 852-3013  | LP123M016E3P3 | 16   | 12000 | 30 × 30                 | 4.32  | 3.88    | 3.70   |
| 852-3400  | LP153M016H3P3 | 16   | 15000 | 35 × 30                 | 7.87  | 7.16    | 6.56   |
| 852-3017  | LP332M025A1P3 | 25   | 3300  | 22 × 25                 | 2.31  | 2.09    | 2.00   |
| 852-3070  | LP682M025C5P3 | 25   | 6800  | 25 × 35                 | 4.17  | 3.72    | 3.54   |
| 852-1998  | LP103M025H3P3 | 25   | 10000 | 35 × 30                 | 5.42  | 4.82    | 4.59   |
| 852-3082  | LP223M025H9P3 | 25   | 22000 | 35 × 50                 | 9.38  | 8.52    | 7.93   |
| 852-3023  | LP272M035C1P3 | 35   | 2700  | 25 × 25                 | 2.62  | 2.27    | 2.23   |
| 852-3025  | LP562M035E3P3 | 35   | 5600  | 30 × 30                 | 6.01  | 5.35    | 5.09   |
| 852-3402  | LP822M035H3P3 | 35   | 8200  | 35 × 30                 | 7.51  | 6.82    | 6.15   |
| 852-3028  | LP153M035H9P3 | 35   | 15000 | 35 × 50                 | 9.74  | 8.72    | 8.36   |
| 852-3029  | LP122M050A1P3 | 50   | 1200  | 22 × 25                 | 3.08  | 2.77    | 2.65   |
| 852-3060  | LP152M050A1P3 | 50   | 1500  | 22 × 25                 | 2.56  | 2.25    | 2.20   |
| 852-3086  | LP222M050E1P3 | 50   | 2200  | 30 × 25                 | 4.70  | 4.23    | 4.05   |
| 852-3404  | LP332M050C5P3 | 50   | 3300  | 25 × 35                 | 7.49  | 6.81    | 5.76   |
| 852-3406  | LP332M050E3P3 | 50   | 3300  | 30 × 30                 | 7.49  | 6.81    | 5.76   |
| 852-3032  | LP472M050H3P3 | 50   | 4700  | 35 × 30                 | 5.49  | 4.92    | 4.62   |
| 852-3408  | LP682M050E9P3 | 50   | 6800  | 30 × 50                 | 9.73  | 8.85    | 7.49   |
| 852-3090  | LP822M050H9P3 | 50   | 8200  | 35 × 50                 | 7.54  | 6.90    | 6.47   |
| 852-3035  | LP222M063E3P3 | 63   | 2200  | 30 × 30                 | 5.08  | 4.55    | 4.29   |
| 852-2000  | LP472M063E9P3 | 63   | 4700  | 30 × 50                 | 7.72  | 6.87    | 6.53   |
| 852-3040  | LP682M063H9P3 | 63   | 6800  | 35 × 50                 | 11.26 | 10.46   | 9.65   |
| 852-3068  | LP471M200H3P3 | 200  | 470   | 35 × 30                 | 5.67  | 5.09    | 4.86   |
| 852-3046  | LP102M200H9P3 | 200  | 1000  | 35 × 50                 | 10.33 | 9.44    | 8.86   |
| 852-3094  | LP101M250A1P3 | 250  | 100   | 22 × 25                 | 3.37  | 3.03    | 2.88   |

**TC Aluminum Electrolytic Capacitors**

TC capacitors are single section metal tubulars with plastic insulating sleeve. Sizes are for bare unsleeved cans; add .015" to the diameter and 0.062" to the length to allow for plastic sleeve. TC capacitors have etched cathode construction and 2.25" min. tinned leads. **Specifications. Operating Temperature:** -40°C to +85°C. **Tolerance:** -10% to 75% up to 350 WVDC, -10% to +50% for 450 WVDC.

| Stock No. | Mfr.'s Type | Cap. µF | WVDC | Case Size D × L (in.) | EACH  |       |       |
|-----------|-------------|---------|------|-----------------------|-------|-------|-------|
|           |             |         |      |                       | 1-24  | 25-49 | 50-99 |
| 852-9200  | TC2501A     | 100     | 16   | 0.236 × 0.629         | .47   | .36   | .30   |
| 852-9202  | TC2510A     | 1000    | 25   | 0.512 × 0.984         | 1.08  | .82   | .70   |
| 852-9204  | TC2515      | 1500    | 25   | 0.750 × 2.125         | 7.53  | 5.92  | 5.02  |
| 852-9130  | TC50025A    | 250     | 50   | 0.394 × 0.866         | .80   | .60   | .51   |
| 852-9120  | TC50050A    | 500     | 50   | 0.512 × 1.060         | 1.24  | .92   | .79   |
| 852-9039  | TC50100     | 1000    | 50   | 0.875 × 2.625         | 7.64  | 6.80  | 6.46  |
| 852-9040  | TC50200     | 2000    | 50   | 1.000 × 2.625         | 9.36  | 8.49  | 7.90  |
| 852-9115  | TC75251     | 250     | 75   | 0.750 × 1.625         | 9.45  | 7.29  | 6.17  |
| 852-9067  | TC493       | 100     | 150  | 0.750 × 1.625         | 6.39  | 5.70  | 5.42  |
| 852-9206  | TC495       | 150     | 150  | 0.875 × 1.625         | 8.32  | 6.54  | 5.55  |
| 852-9073  | TC52        | 10      | 250  | 0.625 × 1.125         | 6.78  | 6.04  | 5.33  |
| 852-9076  | TC55        | 20      | 250  | 0.750 × 1.125         | 7.87  | 7.00  | 6.66  |
| 852-9079  | TC59        | 50      | 250  | 0.750 × 1.625         | 9.61  | 8.74  | 8.14  |
| 852-9048  | TC1267      | 225     | 250  | 1.000 × 3.125         | 11.80 | 10.71 | 9.97  |
| 852-9086  | TC62        | 10      | 350  | 0.625 × 1.375         | 7.76  | 6.91  | 6.57  |
| 852-9186  | TC69        | 100     | 350  | 0.875 × 2.625         | 9.46  | 8.75  | 8.13  |
| 852-9088  | TC695       | 2       | 450  | 0.625 × 1.125         | 9.02  | 8.03  | 7.62  |
| 852-9089  | TC72        | 10      | 450  | 0.875 × 1.375         | 8.19  | 7.30  | 6.93  |
| 852-9100  | TC74        | 16      | 450  | 0.750 × 1.625         | 9.17  | 8.16  | 7.75  |
| 852-9101  | TC75        | 20      | 450  | 0.875 × 1.625         | 6.39  | 5.73  | 5.49  |
| 852-9090  | TC77        | 30      | 450  | 1.000 × 1.625         | 12.43 | 11.30 | 10.53 |
| 852-9192  | TC79        | 50      | 450  | 1.000 × 2.125         | 11.57 | 10.63 | 9.81  |
| 852-9191  | TC807       | 100     | 450  | 1.000 × 3.125         | 16.12 | 14.79 | 13.65 |

**Radial Lead Snap-In Capacitors**



This high capacitance general purpose aluminum electrolytic capacitor has radial snap-in leads. These are ideal for input filter in SMPS. PVC insulating sleeve. **Tolerance:** 20%. **Temperature Range:** -40 to +85°C.

**Case Codes Dimensions**

| Diameter |        | Length    |           |           |           |           |           |
|----------|--------|-----------|-----------|-----------|-----------|-----------|-----------|
| mm       | Inches | 25 (1.00) | 30 (1.18) | 35 (1.38) | 40 (1.57) | 45 (1.77) | 50 (2.00) |
| 22       | 0.87   | A1        | A3        | A5        | A7        | A4        | A9        |
| 25       | 1.00   | E1        | C3        | C5        | C7        | C4        | C9        |
| 30       | 1.18   | E1        | E3        | E5        | E7        | E4        | E9        |
| 35       | 1.38   | H1        | H3        | H5        | H7        | H4        | H9        |

| Stock No. | Mfr.'s Type    | VDC | MFD  | Size    | EACH  |       |
|-----------|----------------|-----|------|---------|-------|-------|
|           |                |     |      |         | 1-24  | 25-49 |
| 852-1404  | LPX471M200C3P3 | 200 | 470  | 25 × 30 | 5.16  | 4.25  |
| 852-1406  | LPX561M200C5P3 | 200 | 560  | 25 × 35 | 5.93  | 5.29  |
| 852-1401  | LPX821M200E5P3 | 200 | 820  | 30 × 35 | 11.40 | 9.50  |
| 852-1412  | LPX102M200E7P3 | 200 | 1000 | 30 × 40 | 11.18 | 9.97  |
| 852-1420  | LPX152M200H7P3 | 200 | 1500 | 35 × 40 | 11.37 | 10.32 |
| 852-1402  | LPX331M250A5P3 | 250 | 330  | 22 × 35 | 7.51  | 6.26  |
| 852-1403  | LPX331M250C3P3 | 250 | 330  | 25 × 35 | 7.51  | 6.26  |
| 852-1432  | LPX471M250C5P3 | 250 | 470  | 25 × 35 | 7.27  | 6.48  |
| 852-1462  | LPX681M350H4P3 | 350 | 680  | 35 × 45 | 19.72 | 18.11 |
| 852-1466  | LPX221M400C7P3 | 400 | 220  | 25 × 40 | 6.88  | 6.12  |
| 852-1468  | LPX331M400E7P3 | 400 | 330  | 30 × 40 | 10.09 | 9.16  |
| 852-1472  | LPX471M400H7P3 | 400 | 470  | 35 × 40 | 15.78 | 14.34 |
| 852-1484  | LPX221M450E7P3 | 450 | 220  | 30 × 40 | 10.81 | 9.83  |
| 852-1490  | LPX331M450H7P3 | 450 | 330  | 35 × 40 | 13.03 | 11.83 |
| 852-1494  | LPX471M450H9P3 | 450 | 470  | 35 × 50 | 16.32 | 14.82 |