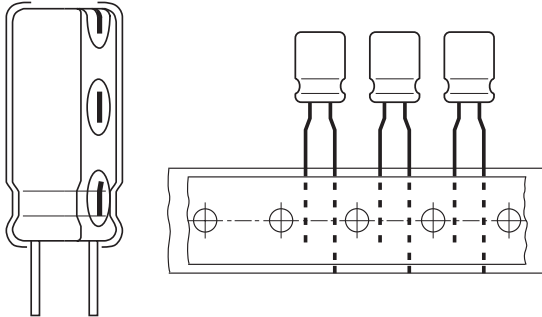


## Aluminum Capacitors Radial Style



Component outlines.

### FEATURES

- Polarized Al electrolytic capacitor
- High C•U product
- Very small dimensions
- Long lifetime
- Extended temperature range: 105°C

### APPLICATIONS

- General uses, industrial electronics, automotive electronics, audio / video systems
- Smoothing, filtering, coupling, decoupling, timing elements
- Little space requirement

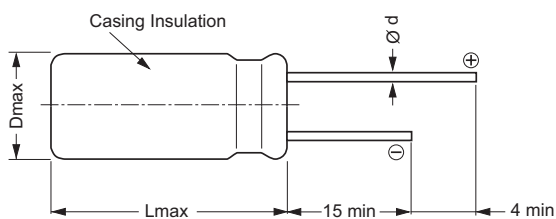
### QUICK REFERENCE DATA

| DESCRIPTION                                     | UNIT                | VALUE                                                                     |              |
|-------------------------------------------------|---------------------|---------------------------------------------------------------------------|--------------|
| Nominal case size (ØD × L)                      | mm                  | 5 x 11 to 18 x 40                                                         |              |
| Rated capacitance range C <sub>R</sub>          | µF                  | 1 to 22000                                                                |              |
| Capacitance tolerance                           | %                   | ± 20                                                                      |              |
| Rated voltage range                             | V                   | 6.3 to 350                                                                | 400 to 450   |
| Category temperature range                      | °C                  | - 40 to + 85                                                              | - 25 to + 85 |
| Endurance test at upper category temperature    | h                   | 2000                                                                      |              |
| Useful life at 85 °C and I <sub>R</sub> applied | h                   | 3000                                                                      |              |
| Useful life at 40 °C and I <sub>R</sub> applied | h                   | 70000                                                                     |              |
| Failure rate                                    | 10 <sup>-9</sup> /h | ≤ 90                                                                      |              |
| Based on sectional specification                |                     | IEC 384-4, CECC 30300, GP grade                                           |              |
| Based on detailed specifications                |                     | CECC 30301-037, similar to DIN 45 910 part 124 without quality assessment |              |
| Climatic category                               |                     |                                                                           |              |
| IEC 68                                          |                     | 40/085/56                                                                 | 25/085/56    |
| DIN 40040                                       |                     | GPF                                                                       | HPF          |

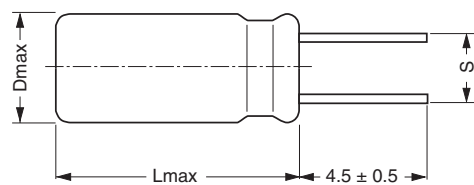
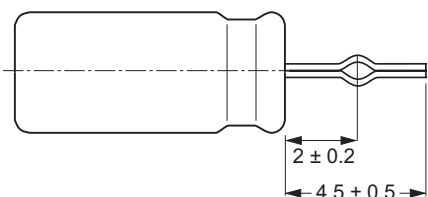
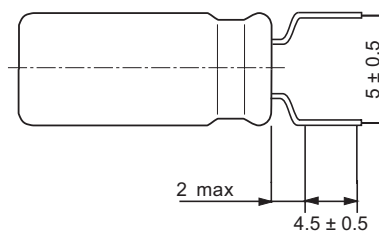
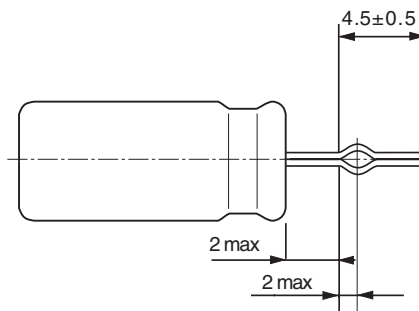
### SELECTION CHART FOR C<sub>R</sub>, U<sub>R</sub> AND RELEVANT NOMINAL CASE SIZES (ØD x L in mm)

| C <sub>R</sub><br>(µF) | RATED VOLTAGE [V] |           |           |           |           |           |          |           |           |           |           |           |           |           |
|------------------------|-------------------|-----------|-----------|-----------|-----------|-----------|----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
|                        | 6.3               | 10        | 16        | 25        | 35        | 50        | 63       | 100       | 160       | 200       | 250       | 350       | 400       | 450       |
| 1.0                    | -                 | -         | -         | -         | -         | -         | -        | -         | -         | -         | -         | -         | -         | 8 x 11.5  |
| 2.2                    | -                 | -         | -         | -         | -         | -         | -        | -         | -         | -         | -         | -         | 8 x 11.5  | 10 x 12.5 |
| 3.3                    | -                 | -         | -         | -         | -         | -         | -        | -         | -         | 6.3 x 11  | 8 x 11.5  | 8 x 11.5  | 10 x 12.5 | 10 x 12.5 |
| 4.7                    | -                 | -         | -         | -         | -         | -         | -        | -         | 6.3 x 11  | 8 x 11.5  | 8 x 11.5  | 10 x 12.5 | 10 x 12.5 | 10 x 16   |
| 10                     | -                 | -         | -         | -         | -         | -         | -        | 5 x 11    | 10 x 12.5 | 10 x 12.5 | 10 x 12.5 | 10 x 16   | 10 x 20   | 10 x 20   |
| 22                     | -                 | -         | -         | -         | -         | -         | -        | 6.3 x 11  | 10 x 16   | 10 x 16   | 10 x 20   | 13 x 20   | 13 x 25   | 13 x 25   |
| 33                     | -                 | -         | -         | -         | -         | -         | 5 x 11   | 8 x 11.5  | 10 x 20   | 10 x 20   | 13 x 20   | 13 x 25   | 16 x 25   | 16 x 25   |
| 47                     | -                 | -         | -         | -         | 5 x 11    | -         | 6.3 x 11 | 10 x 12.5 | 13 x 20   | 13 x 20   | 13 x 25   | 16 x 25   | 16 x 31.5 | 16 x 31.5 |
| 100                    | -                 | -         | 5 x 11    | -         | 6.3 x 11  | -         | 8 x 11.5 | 10 x 20   | 13 x 25   | 16 x 25   | 16 x 31.5 | 16 x 35.5 | 18 x 40   | -         |
| 220                    | -                 | 5 x 11    | 6.3 x 11  | -         | 8 x 11.5  | 10 x 12.5 | 10 x 16  | 13 x 25   | 16 x 31.5 | 18 x 35.5 | 18 x 40   | -         | -         | -         |
| 330                    | -                 | 6.3 x 11  | 8 x 11.5  | 8 x 11.5  | 10 x 12.5 | 10 x 16   | 10 x 20  | 16 x 25   | 18 x 35.5 | -         | -         | -         | -         | -         |
| 470                    | -                 | 6.3 x 11  | 8 x 11.5  | 10 x 12.5 | 10 x 16   | 10 x 20   | 13 x 20  | 16 x 25   | -         | -         | -         | -         | -         | -         |
| 1000                   | 8 x 11.5          | 10 x 12.5 | 10 x 16   | 10 x 20   | 13 x 20   | 13 x 25   | 16 x 25  | -         | -         | -         | -         | -         | -         | -         |
| 2200                   | 10 x 20           | 10 x 20   | 13 x 20   | 13 x 25   | 16 x 25   | 16 x 35.5 | -        | -         | -         | -         | -         | -         | -         | -         |
| 3300                   | 10 x 20           | 13 x 20   | 13 x 25   | 16 x 25   | 16 x 35.5 | 18 x 35.5 | -        | -         | -         | -         | -         | -         | -         | -         |
| 4700                   | 13 x 20           | 13 x 25   | 16 x 25   | 16 x 31.5 | 18 x 35.5 | -         | -        | -         | -         | -         | -         | -         | -         | -         |
| 6800                   | 13 x 25           | 16 x 25   | 16 x 31.5 | 18 x 35.5 | -         | -         | -        | -         | -         | -         | -         | -         | -         | -         |
| 10000                  | 16 x 25           | 16 x 35.5 | 18 x 35.5 | -         | -         | -         | -        | -         | -         | -         | -         | -         | -         | -         |
| 15000                  | 16 x 35.5         | 18 x 35.5 | -         | -         | -         | -         | -        | -         | -         | -         | -         | -         | -         | -         |
| 22000                  | 18 x 40           | -         | -         | -         | -         | -         | -        | -         | -         | -         | -         | -         | -         | -         |

10% capacitance tolerance on request

**DIMENSIONS** in millimeters **AND AVAILABLE FORMS**

5 ≤ ØD ≤ 18 Long Leads EKA 00...

5 ≤ ØD ≤ 18 Shortened leads EKA 05...  
(S = 2 / 2.5 / 3.5 / 5 / 7.5 mm)10 ≤ ØD ≤ 18 Leads shortened and formed EKA 06...  
(S = 5 / 7 mm)5 ≤ ØD ≤ 8 Leads bent open, shortened EKA 09...  
(S = 5mm)Leads are solder-coated steel  
Safety vent for ØD5 ≤ ØD ≤ 8 Leads bent open, shortened and formed EKA 09...  
(S = 5mm)**RADIAL STYLE: DIMENSIONS** in millimeters

| NOMINAL CASE SIZE<br>ØD x L | MAXIMUM SIZE<br>D <sub>MAX.</sub> x L <sub>MAX.</sub> | LEAD<br>ØD ± 0.05 | LEAD SPACING<br>S ± 0.05 |
|-----------------------------|-------------------------------------------------------|-------------------|--------------------------|
| 5 x 11                      | 5.5 x 12.0                                            | 0.5               | 2.0                      |
| 6.3 x 11                    | 6.8 x 12.0                                            | 0.5               | 2.5                      |
| 8 x 11.5                    | 8.5 x 12.5                                            | 0.6               | 3.5                      |
| 10 x 12.5                   | 10.5 x 14.5                                           | 0.6               | 5.0                      |
| 10 x 16                     | 10.5 x 18.0                                           | 0.6               | 5.0                      |
| 10 x 20                     | 10.5 x 22.0                                           | 0.6               | 5.0                      |
| 13 x 20                     | 13.5 x 22.0                                           | 0.6               | 5.0                      |
| 13 x 25                     | 13.5 x 27.0                                           | 0.6               | 5.0                      |
| 16 x 25                     | 16.5 x 2.07                                           | 0.8               | 7.5                      |
| 16 x 31.5                   | 16.5 x 33.5                                           | 0.8               | 7.5                      |
| 16 x 35.5                   | 16.5 x 37.5                                           | 0.8               | 7.5                      |
| 18 x 35.5                   | 18.5 x 37.5                                           | 0.8               | 7.5                      |
| 18 x 40                     | 18.5 x 42.0                                           | 0.8               | 7.5                      |

Aluminum Capacitors  
Radial Type

Vishay Roederstein

**ELECTRICAL DATA**

| SYMBOL        | DESCRIPTION                                                              |
|---------------|--------------------------------------------------------------------------|
| $C_R$         | rated capacitance at 120 Hz                                              |
| $U_R$         | rated voltage                                                            |
| $\tan \delta$ | max. dissipation factor at 120 Hz                                        |
| $R_{ESR}$     | max. equivalent series resistance at 120 Hz                              |
| $I_R$         | rated alternating current (rms) at 120 Hz and upper category temperature |

**Note**

1. Unless otherwise specified, all electrical values apply at  
 $T_a = 20^\circ\text{C}$ ,  $P = 80$  to  $120$  kPa,  $RH = 45$  to  $75\%$ .

**ORDERING EXAMPLE**EKA 2200  $\mu\text{F}$  / 25 V,  $\pm 20\%$ , size: 16mm x 25mm

Leads: Long - Ordering code: EKA 00JG422E00

Leads: Short (4.5mm  $\pm 0.5$ ) - Ordering code: EKA 05...

Leads: Bent open, shortened - Ordering code: EKA 09....

Leads: Bent open, shortened and formed -

Ordering code: EKA 06...

**ELECTRICAL DATA AND ORDERING INFORMATION**

| $U_R$ (V) | $C_R$<br>120 Hz<br>( $\mu\text{F}$ ) | NOMINAL<br>CASE SIZE<br>$\varnothing D \times L$<br>(mm) | $\tan \delta$<br>120 Hz | $R_{ESR}$<br>120 Hz<br>( $\Omega$ ) | $I_R$<br>100 kHz/105 $^\circ\text{C}$<br>(mA) | WEIGHT<br>(g) | CATALOG<br>NUMBER |
|-----------|--------------------------------------|----------------------------------------------------------|-------------------------|-------------------------------------|-----------------------------------------------|---------------|-------------------|
| 6.3       | 1000                                 | 8 x 11.5                                                 | 0.28                    | 0.45                                | 567                                           | 1.1           | EKA00PB410B00     |
|           | 2200                                 | 10 x 20                                                  | 0.30                    | 0.22                                | 1012                                          | 2.5           | EKA00DE422B00     |
|           | 3300                                 | 10 x 20                                                  | 0.33                    | 0.16                                | 1197                                          | 2.5           | EKA00DE433B00     |
|           | 4700                                 | 13 x 20                                                  | 0.35                    | 0.12                                | 1624                                          | 3.8           | EKA00GE447B00     |
|           | 6800                                 | 13 x 25                                                  | 0.40                    | 0.09                                | 2001                                          | 4.5           | EKA00GG468B00     |
|           | 10000                                | 16 x 25                                                  | 0.46                    | 0.07                                | 2501                                          | 7.0           | EKA00JG510B00     |
|           | 15000                                | 16 x 35.5                                                | 0.56                    | 0.06                                | 3160                                          | 11.0          | EKA00JL515B00     |
|           | 22000                                | 18 x 40                                                  | 0.70                    | 0.05                                | 3821                                          | 16.0          | EKA00KK522B00     |
| 10        | 220                                  | 5 x 11                                                   | 0.24                    | 1.74                                | 212                                           | 0.5           | EKA00AA322C00     |
|           | 330                                  | 6.3 x 11                                                 | 0.24                    | 1.16                                | 298                                           | 0.8           | EKA00BA333C00     |
|           | 470                                  | 6.3 x 11                                                 | 0.24                    | 0.81                                | 356                                           | 0.8           | EKA00BA347C00     |
|           | 1000                                 | 10 x 12.5                                                | 0.24                    | 0.38                                | 712                                           | 1.5           | EKA00DC410C00     |
|           | 2200                                 | 10 x 20                                                  | 0.26                    | 0.19                                | 1023                                          | 2.5           | EKA00DE422C00     |
|           | 3300                                 | 13 x 20                                                  | 0.29                    | 0.14                                | 1509                                          | 3.8           | EKA00GE433C00     |
|           | 4700                                 | 13 x 25                                                  | 0.31                    | 0.11                                | 1893                                          | 4.5           | EKA00GG447C00     |
|           | 6800                                 | 16 x 25                                                  | 0.36                    | 0.08                                | 2362                                          | 7.0           | EKA00JG468C00     |
| 16        | 10000                                | 16 x 35.5                                                | 0.42                    | 0.07                                | 3018                                          | 11.0          | EKA00JL510C00     |
|           | 15000                                | 18 x 35.5                                                | 0.52                    | 0.06                                | 3529                                          | 13.0          | EKA00KL515C00     |
| 16        | 100                                  | 5 x 11                                                   | 0.20                    | 3.18                                | 157                                           | 0.5           | EKA00AA310D00     |
|           | 220                                  | 6.3 x 11                                                 | 0.20                    | 1.45                                | 267                                           | 0.8           | EKA00BA322D00     |
|           | 330                                  | 8 x 11.5                                                 | 0.20                    | 0.97                                | 386                                           | 1.1           | EKA00PB333D00     |
|           | 470                                  | 8 x 11.5                                                 | 0.20                    | 0.68                                | 460                                           | 1.1           | EKA00DC347D00     |
|           | 1000                                 | 10 x 16                                                  | 0.20                    | 0.32                                | 854                                           | 2.0           | EKA00DD410D00     |
|           | 2200                                 | 13 x 20                                                  | 0.22                    | 0.16                                | 1271                                          | 3.8           | EKA00GE422D00     |
|           | 3300                                 | 13 x 25                                                  | 0.25                    | 0.12                                | 1750                                          | 4.5           | EKA00GG433D00     |
|           | 4700                                 | 16 x 25                                                  | 0.27                    | 0.09                                | 2222                                          | 7.0           | EKA00JG447D00     |
| 25        | 6800                                 | 16 x 31.5                                                | 0.32                    | 0.07                                | 2715                                          | 9.0           | EKA00JS468D00     |
|           | 10000                                | 18 x 35.5                                                | 0.38                    | 0.06                                | 3374                                          | 13.0          | EKA00KL510D00     |
| 25        | 330                                  | 8 x 11.5                                                 | 0.16                    | 0.77                                | 431                                           | 1.1           | EKA00PB333E00     |
|           | 470                                  | 10 x 12.5                                                | 0.16                    | 0.54                                | 598                                           | 1.5           | EKA00DC347E00     |
|           | 1000                                 | 10 x 20                                                  | 0.16                    | 0.25                                | 1042                                          | 2.5           | EKA00DE410E00     |
|           | 2200                                 | 13 x 25                                                  | 0.18                    | 0.13                                | 1615                                          | 4.5           | EKA00GG422E00     |
|           | 3300                                 | 16 x 25                                                  | 0.21                    | 0.10                                | 2082                                          | 7.0           | EKA00JG433E00     |
|           | 4700                                 | 16 x 31.5                                                | 0.23                    | 0.08                                | 2592                                          | 9.0           | EKA00JS447E00     |
|           | 6800                                 | 18 x 35.5                                                | 0.28                    | 0.07                                | 3228                                          | 13.0          | EKA00KL468E00     |
| 35        | 47                                   | 5 x 11                                                   | 0.14                    | 4.74                                | 131                                           | 0.5           | EKA00AA247F00     |
|           | 100                                  | 6.3 x 11                                                 | 0.14                    | 2.23                                | 220                                           | 0.8           | EKA00BA310F00     |
|           | 220                                  | 8 x 11.5                                                 | 0.14                    | 1.01                                | 386                                           | 1.1           | EKA00PB322F00     |
|           | 330                                  | 10 x 12.5                                                | 0.14                    | 0.68                                | 549                                           | 1.5           | EKA00DC333F00     |
|           | 470                                  | 10 x 16                                                  | 0.14                    | 0.47                                | 717                                           | 2.0           | EKA00DD347F00     |
|           | 1000                                 | 13 x 20                                                  | 0.14                    | 0.22                                | 1340                                          | 3.8           | EKA00GE410F00     |
|           | 2200                                 | 16 x 25                                                  | 0.16                    | 0.12                                | 1900                                          | 7.0           | EKA00JG422F00     |
|           | 3300                                 | 16 x 35.5                                                | 0.19                    | 0.09                                | 2519                                          | 11.0          | EKA00JL433F00     |
| 50        | 4700                                 | 18 x 35.5                                                | 0.21                    | 0.07                                | 3060                                          | 13.0          | EKA00KL447F00     |
|           | 220                                  | 10 x 12.5                                                | 0.12                    | 0.87                                | 472                                           | 1.5           | EKA00DC322H00     |
|           | 330                                  | 10 x 16                                                  | 0.12                    | 0.58                                | 633                                           | 2.0           | EKA00DD333H00     |
|           | 470                                  | 10 x 20                                                  | 0.12                    | 0.41                                | 825                                           | 2.5           | EKA00DE347H00     |
|           | 1000                                 | 13 x 25                                                  | 0.12                    | 0.19                                | 1540                                          | 4.5           | EKA00GG410H00     |
|           | 2200                                 | 16 x 35.5                                                | 0.14                    | 0.10                                | 2253                                          | 11.0          | EKA00JL422H00     |
|           | 3300                                 | 18 x 35.5                                                | 0.17                    | 0.08                                | 2721                                          | 13.0          | EKA00KL433H00     |

**ELECTRICAL DATA AND ORDERING INFORMATION**

| $U_R$ (V) | $C_R$<br>120 Hz<br>( $\mu$ F) | NOMINAL<br>CASE SIZE<br>$\varnothing D \times L$<br>(mm) | $\tan \delta$<br>120 Hz | $R_{ESR}$<br>120 Hz<br>( $\Omega$ ) | $I_R$<br>100 kHz/105 °C<br>(mA) | WEIGHT<br>(g) | CATALOG<br>NUMBER |
|-----------|-------------------------------|----------------------------------------------------------|-------------------------|-------------------------------------|---------------------------------|---------------|-------------------|
| 63        | 33                            | 5 x 11                                                   | 0.10                    | 4.83                                | 142                             | 0.5           | EKA00AA233J00     |
|           | 47                            | 6.3 x 11                                                 | 0.10                    | 3.39                                | 169                             | 0.8           | EKA00BA247J00     |
|           | 100                           | 8 x 11.5                                                 | 0.10                    | 1.59                                | 291                             | 1.1           | EKA00PB310J00     |
|           | 220                           | 10 x 16                                                  | 0.10                    | 0.72                                | 549                             | 2.0           | EKA00DD322J00     |
|           | 330                           | 10 x 20                                                  | 0.10                    | 0.48                                | 733                             | 2.5           | EKA00DE333J00     |
|           | 470                           | 13 x 20                                                  | 0.10                    | 0.34                                | 1027                            | 3.8           | EKA00GE347J00     |
|           | 1000                          | 16 x 25                                                  | 0.10                    | 0.16                                | 1812                            | 7.0           | EKA00JG410J00     |
| 100       | 10                            | 5 x 11                                                   | 0.08                    | 13.0                                | 72                              | 0.5           | EKA00AA210L00     |
|           | 22                            | 6.3 x 11                                                 | 0.08                    | 5.79                                | 124                             | 0.8           | EKA00BA222L00     |
|           | 33                            | 8 x 11.5                                                 | 0.08                    | 3.86                                | 178                             | 1.1           | EKA00PB233L00     |
|           | 47                            | 10 x 12.5                                                | 0.08                    | 2.71                                | 247                             | 1.5           | EKA00DC247L00     |
|           | 100                           | 10 x 20                                                  | 0.08                    | 1.27                                | 431                             | 2.5           | EKA00DE310L00     |
|           | 220                           | 13 x 25                                                  | 0.08                    | 0.58                                | 819                             | 4.5           | EKA00GG322L00     |
|           | 330                           | 16 x 25                                                  | 0.08                    | 0.39                                | 1113                            | 7.0           | EKA00JG333L00     |
| 160       | 470                           | 16 x 25                                                  | 0.08                    | 0.27                                | 1328                            | 7.0           | EKA00JG347L00     |
|           | 4.7                           | 6.3 x 11                                                 | 0.15                    | 51.0                                | 48                              | 0.8           | EKA00BA147M00     |
|           | 10                            | 10 x 12.5                                                | 0.15                    | 24.0                                | 95                              | 1.5           | EKA00DC210M00     |
|           | 22                            | 10 x 16                                                  | 0.15                    | 11.0                                | 155                             | 2.0           | EKA00DD222M00     |
|           | 33                            | 10 x 20                                                  | 0.15                    | 7.24                                | 207                             | 2.5           | EKA00DE233M00     |
|           | 47                            | 13 x 20                                                  | 0.15                    | 5.08                                | 290                             | 3.8           | EKA00GE247M00     |
|           | 100                           | 13 x 25                                                  | 0.15                    | 2.39                                | 462                             | 4.5           | EKA00GG310M00     |
| 200       | 220                           | 16 x 31.5                                                | 0.15                    | 1.09                                | 832                             | 9.0           | EKA00JS322M00     |
|           | 330                           | 18 x 35.5                                                | 0.15                    | 0.72                                | 1147                            | 13.0          | EKA00KL333M00     |
|           | 3.3                           | 6.3 x 11                                                 | 0.15                    | 72.0                                | 40                              | 0.8           | EKA00BA133S00     |
|           | 4.7                           | 8 x 12.5                                                 | 0.15                    | 51.0                                | 56                              | 1.1           | EKA00PB147S00     |
|           | 10                            | 10 x 12.5                                                | 0.15                    | 24.0                                | 95                              | 1.5           | EKA00DC210S00     |
|           | 22                            | 10 x 16                                                  | 0.15                    | 11.0                                | 155                             | 2.0           | EKA00DD222S00     |
|           | 33                            | 10 x 20                                                  | 0.15                    | 7.24                                | 207                             | 2.5           | EKA00DE233S00     |
| 250       | 47                            | 13 x 20                                                  | 0.15                    | 5.08                                | 290                             | 3.8           | EKA00GE247S00     |
|           | 100                           | 16 x 25                                                  | 0.15                    | 2.39                                | 512                             | 7.0           | EKA00JG310S00     |
|           | 220                           | 18 x 35.5                                                | 0.15                    | 1.09                                | 936                             | 13.0          | EKA00KL322S00     |
|           | 3.3                           | 8 x 11.5                                                 | 0.15                    | 72.0                                | 47                              | 1.1           | EKA00PB133N00     |
|           | 4.7                           | 8 x 11.5                                                 | 0.15                    | 51.0                                | 56                              | 1.1           | EKA00PB147N00     |
|           | 10                            | 10 x 12.5                                                | 0.15                    | 24.0                                | 95                              | 1.5           | EKA00DC210N00     |
|           | 22                            | 10 x 20                                                  | 0.15                    | 11.0                                | 169                             | 2.5           | EKA00DE222N00     |
| 350       | 33                            | 13 x 20                                                  | 0.15                    | 7.24                                | 243                             | 3.8           | EKA00GE233N00     |
|           | 47                            | 13 x 25                                                  | 0.15                    | 5.08                                | 317                             | 4.5           | EKA00GG247N00     |
|           | 100                           | 16 x 31.5                                                | 0.15                    | 2.39                                | 561                             | 9.0           | EKA00JS310N00     |
|           | 220                           | 18 x 40                                                  | 0.15                    | 1.09                                | 982                             | 16.0          | EKA00KK322N00     |
|           | 3.3                           | 8 x 11.5                                                 | 0.20                    | 97.0                                | 47                              | 1.1           | EKA00PB133O00     |
|           | 4.7                           | 10 x 12.5                                                | 0.20                    | 68.0                                | 65                              | 1.5           | EKA00DC147O00     |
|           | 10                            | 10 x 16                                                  | 0.20                    | 32.0                                | 105                             | 2.0           | EKA00DD210O00     |
| 400       | 22                            | 13 x 20                                                  | 0.20                    | 15.0                                | 199                             | 3.8           | EKA00GE222O00     |
|           | 33                            | 13 x 25                                                  | 0.20                    | 9.65                                | 265                             | 4.5           | EKA00GG233O00     |
|           | 47                            | 16 x 25                                                  | 0.20                    | 6.78                                | 351                             | 7.0           | EKA00JG247O00     |
|           | 100                           | 16 x 35.5                                                | 0.20                    | 3.18                                | 588                             | 11.0          | EKA00JL310O00     |
|           | 2.2                           | 8 x 11.5                                                 | 0.20                    | 145.0                               | 39                              | 1.1           | EKA00PB122X00     |
|           | 3.3                           | 10 x 12.5                                                | 0.20                    | 97.0                                | 55                              | 1.5           | EKA00DC133X00     |
|           | 4.7                           | 10 x 12.5                                                | 0.20                    | 68.0                                | 65                              | 1.5           | EKA00DC147X00     |
| 450       | 10                            | 10 x 20                                                  | 0.20                    | 32.0                                | 114                             | 2.5           | EKA00DE210X00     |
|           | 22                            | 13 x 25                                                  | 0.20                    | 15.0                                | 217                             | 4.5           | EKA00GG222X00     |
|           | 33                            | 16 x 25                                                  | 0.20                    | 9.65                                | 294                             | 7.0           | EKA00JG233X00     |
|           | 47                            | 16 x 31.5                                                | 0.20                    | 6.78                                | 384                             | 9.0           | EKA00JG247X00     |
|           | 100                           | 18 x 40                                                  | 0.20                    | 3.18                                | 662                             | 16.0          | EKA00KK310X00     |
|           | 1.1                           | 8 x 11.5                                                 | 0.20                    | 318.0                               | 24                              | 1.1           | EKA00PB110P00     |
|           | 2.2                           | 10 x 12.5                                                | 0.20                    | 145.0                               | 41                              | 1.5           | EKA00DC122P00     |
| 450       | 3.3                           | 10 x 12.5                                                | 0.20                    | 97.0                                | 50                              | 1.5           | EKA00DC133P00     |
|           | 4.7                           | 10 x 16                                                  | 0.20                    | 68.0                                | 65                              | 2.0           | EKA00DD147P00     |
|           | 10                            | 10 x 20                                                  | 0.20                    | 32.0                                | 104                             | 2.5           | EKA00DE210P00     |
|           | 22                            | 13 x 25                                                  | 0.20                    | 15.0                                | 198                             | 4.5           | EKA00GG210P00     |
|           | 33                            | 16 x 25                                                  | 0.20                    | 9.65                                | 269                             | 7.0           | EKA00JG233P00     |
|           | 47                            | 16 x 31.5                                                | 0.20                    | 6.78                                | 351                             | 9.0           | EKA00JS247P00     |

**LOW TEMPERATURE BEHAVIOUR****IMPEDANCE RATIO  $Z(T_2) / Z(T_1)$  AT 120 Hz**

| $T_2/T_1$     | RATED VOLTAGE (V) |    |    |    |    |        |     |         |          |
|---------------|-------------------|----|----|----|----|--------|-----|---------|----------|
|               | 6.3               | 10 | 16 | 25 | 35 | 50-100 | 160 | 200-350 | 400, 450 |
| - 25 / + 20°C | 5                 | 4  | 3  | 2  | 2  | 2      | 4   | 6       | 12       |
| - 25 / + 20°C | 12                | 10 | 8  | 5  | 4  | 3      | 6   | 8       | -        |

**LEAKAGE CURRENT**

Formula for calculation of the maximum leakage current for acceptance tests  $I_L$ :

[Test conditions:  $U_R$ , 20 °C, 2 minutes ( $U_R \leq 100$  V) / 5 minutes  $U_R > 100$  V)]

$I_{L2} [\mu A] \leq 0.01 \cdot C_R [\mu F] \cdot U_R [V]$       or 3  $\mu A$       for  $U_R \leq 100$  V (whichever is greater)

$I_{L5} [\mu A] \leq 0.02 \cdot C_R [\mu F] \cdot U_R [V]$       +15  $\mu A$       for  $U_R > 100$  V (whichever is greater)