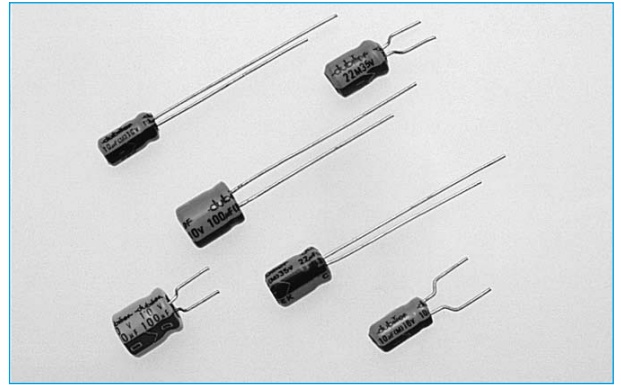


CAPACITORS

ALUMINIUM ELECTROLYTIC MINIATURE RADIAL CEK

SECTION 1

- 7mm high case sizes
- The CEK is a high-quality radial electrolytic capacitor featuring the industry-standard "K" case size.
- Applications include automotive, telecommunications, radio and other designs requiring low profile cases.
- 5mm pitch and SL (straight lead) widely stocked.



SPECIFICATION

| Item | Performance Characteristics | | | | | | | |
|------------------------------|--|---------------------------|--------------------------------------|------|------|------|------|------|
| Operating Temperature Range | -40 to +85°C | | | | | | | |
| Rated Working Voltage Range | 4 to 50V DC | | | | | | | |
| Nominal Capacitance Range | 0.1 to 470µF | | | | | | | |
| Capacitance Tolerance | ± 20% (120Hz, +20°C) | | | | | | | |
| Leakage Current | I - 0.01CV or 3[µA] whichever is greater measured after 2 minutes application of rated working voltage at +20°C. | | | | | | | |
| tan δ (120Hz, +20°C) | Working Voltage [V] | 4 | 6.3 | 10 | 16 | 25 | 35 | 50 |
| | tanδ max. | 0.35 | 0.24 | 0.20 | 0.16 | 0.14 | 0.12 | 0.10 |
| Characteristics at Low Temp. | Impedance ratio max. at 120Hz | | | | | | | |
| | Working Voltage [V] | 4 | 6.3 | 10 | 16 | 25 | 35 | 50 |
| | -25°C/±20°C | 6 | 4 | 3 | 2 | 2 | 2 | 2 |
| | -40°C/+20°C | 12 | 8 | 6 | 4 | 4 | 3 | 3 |
| High Temperature Loading | Test conditions | | | | | | | |
| | Duration | 1000 hours | | | | | | |
| | Ambient temperature | +85°C | | | | | | |
| | Applied voltage | Rated DC working voltage | | | | | | |
| | Post test requirements at +20°C | | | | | | | |
| | Leakage current | ≤ Initial specified value | | | | | | |
| Capacitance change | ≤ ± 20% of initial measured value | | | | | | | |
| tan δ | ≤ 200% of initial specified value | | | | | | | |
| Shelf Life | Test conditions | | | | | | | |
| | Duration | 500 hours | Post test requirements at +20°C. | | | | | |
| | Ambient temperature | +85°C | Same limits for temperature loading. | | | | | |
| | Applied voltage | (None) | | | | | | |

ORDERING INFORMATION

| CEK | 10 | 16 | TA |
|-------|-------------------|--------------|---|
| Range | Capacitance µF | Voltage V | Options: TA = Tape/Ammo-box SL = Straight Lead Blank = 5mm Pitch |

TA = 5mm, e.g. TA 2mm = 2mm pitch.
 Note: Always add SL if you require straight lead pitch e.g. CEK 10 16 SL as the standard CEK 10 16 is 5mm pitch.

RANGE & CASE SIZE

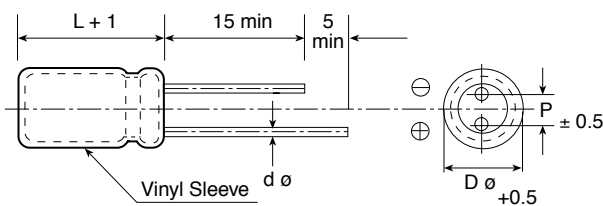
| V | 6.3 | 10 | 16 | 25 | 35 | 50 | 63 |
|------|--------|--------|--------|--------|--------|--------|--------|
| μF | øxl/mm | øxl/mm | øxl/mm | øxl/mm | øxl/mm | øxl/mm | øxl/mm |
| 0.1 | | | | | → | 4x7 | 4x7 |
| 0.22 | | | | | → | 4x7 | 4x7 |
| 0.33 | | | | | → | 4x7 | 4x7 |
| 0.47 | | | | | → | 4x7 | 4x7 |
| 1.0 | | | | | → | 4x7 | 4x7 |
| 2.2 | | | | | → | 4x7 | 4x7 |
| 3.3 | | | | | → | 4x7 | 4x7 |
| 4.7 | | | → | 4x7 | 4x7 | 4x7 | 5x7 |
| 10 | | | → | 4x7 | 4x7 | 5x7 | |
| 22 | 4x7 | 4x7 | 4x7 | 5x7 | 5x7 | | |
| 33 | 4x7 | 4x7 | 4x7 | 5x7 | | | |
| 47 | 4x7 | 4x7 | 5x7 | 6x7 | | | |
| 100 | 5x7 | 5x7 | 6x7 | | | | |
| 220 | 6x7 | 6x7 | 8x9 | | | | |
| 330 | 6.3x7 | 8x7 | | | | | |
| 470 | 8x7 | | | | | | |

PERMISSIBLE RIPPLE CURRENT

STANDARD PRODUCTS

| V | 6.3 | 10 | 16 | 25 | 35 | 50 | 63 |
|------|-----|----|-----|----|----|----|----|
| μF | | | | | | | |
| 0.1 | | | | | → | 1 | 1 |
| 0.22 | | | | | → | 2 | 2 |
| 0.33 | | | | | → | 3 | 4 |
| 0.47 | | | | | → | 5 | 6 |
| 1.0 | | | | | → | 10 | 13 |
| 2.2 | | | | | → | 19 | 21 |
| 3.3 | | | | | → | 24 | 26 |
| 4.7 | | | → | 24 | 24 | 29 | 33 |
| 10 | | | → | 29 | 36 | 44 | |
| 22 | 34 | 38 | 44 | 51 | 57 | | |
| 33 | 42 | 47 | 57 | 63 | | | |
| 47 | 50 | 59 | 68 | 75 | | | |
| 100 | 77 | 80 | 90 | | | | |
| 220 | 80 | 90 | 100 | | | | |

OUTLINE DRAWING



Dimensions in mm

| | | | | |
|-----------|------|-----|-----|-----|
| Dø | 4 | 5 | 6.3 | 8 |
| P | 1.5 | 2.0 | 2.5 | 3.5 |
| dø | 0.45 | | 0.5 | |

Availability is in both 5mm Cropped and Formed and SL Straight Lead Natural Pitch.