

ME-CA Series

Small

Low Impedance

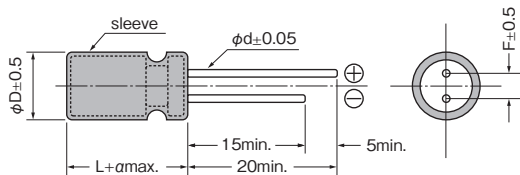


- 105°C 1,000 to 3,000hours
- Solvent proof (within 5 minutes)

Specifications

| Items | Condition | Specifications | | | | | | |
|------------------------------------|---|--|--|------|------|------|------|---|
| Rated voltage (V) | — | 6.3 | 10 | 16 | 25 | 35 | 50 | |
| Surge voltage (V) | Room temperature | 8.0 | 13 | 20 | 32 | 44 | 63 | |
| Category temperature range (°C) | — | -55 to +105 | | | | | | |
| Capacitance tolerance (%) | 120Hz/20°C | M : ±20 | | | | | | |
| Dissipation Factor (tan δ) | tanδ (max.) 120Hz/20°C | 0.28 | 0.24 | 0.20 | 0.16 | 0.14 | 0.12 | |
| Leakage current (LC) | μA/after 2minutes (max.), 20°C | Exceeding 1,000μF, +0.02 every 1,000μF | | | | | | |
| Impedance ratio at low temperature | Based on the value at 120Hz, +20°C | -40°C Z/Z _{20°C} | 3 | 3 | 2 | 2 | 2 | 2 |
| | | -55°C Z/Z _{20°C} | 6 | 5 | 4 | 4 | 3 | 3 |
| Endurance | 105°C rated voltage applied (With the rated ripple current) | Test | φ5 to φ8 : 1,000hours, φ10 : 2,000hours, φ12.5 to φ16 : 3,000hours | | | | | |
| | | ΔC/C | Within ±25% of the initial value | | | | | |
| | | tanδ | Less than 200% of the specified value | | | | | |
| | | LC | Less than the specified value | | | | | |

Dimensions



$$\alpha : L < 20 \quad \alpha = 1.5, L \geq 20 \quad \alpha = 2.0$$

A pressure relief vent is provided for φD=6.3 or bigger

(Unit : mm)

| φD | 5 | 6.3 | 8 | 10 | 12.5 | 16 |
|----|-----|-----|-----|-----|------|-----|
| F | 2.0 | 2.5 | 3.5 | 5.0 | 5.0 | 7.5 |
| φd | 0.5 | 0.5 | 0.6 | 0.6 | 0.6 | 0.8 |

Size, Impedance, Rated Ripple Current

| Case size φD×L (mm) | Items | 6.3 | | | 10 | | |
|------------------------|-------|------------------|---------------------------------|---|------------------|---------------------------------|---|
| | | Capacitance (μF) | Impedance (Ωmax.) (20°C/100kHz) | Rated ripple current (mA _{rms}) (105°C/10k to 200kHz) | Capacitance (μF) | Impedance (Ωmax.) (20°C/100kHz) | Rated ripple current (mA _{rms}) (105°C/10k to 200kHz) |
| 5×11 | | 220 | 0.50 | 180 | | | |
| 6.3×11 | | 330 | 0.30 | 280 | 220 | 0.30 | 280 |
| 6.3×11 | | 470 | 0.24 | 280 | 330 | 0.24 | 280 |
| 8×11.5 | | 1000 | 0.15 | 560 | 470 | 0.16 | 410 |
| 10×12.5 | | | | | 1000 | 0.086 | 710 |
| 10×16 | | 2200 | 0.066 | 950 | | | |
| 10×20 | | 3300 | 0.047 | 1150 | 2200 | 0.047 | 1150 |
| 12.5×20 | | 4700 | 0.042 | 1460 | 3300 | 0.042 | 1460 |
| 12.5×25 | | 6800 | 0.031 | 1780 | 4700 | 0.031 | 1780 |
| 16×25 | | 10000 | 0.026 | 2000 | 6800 | 0.026 | 2000 |
| 16×31.5 | | | | | 10000 | 0.022 | 2200 |
| 16×35.5 | | 15000 | 0.022 | 2200 | | | |

- ME-SWB
- ME-UZ-SZ
- ME-UAX-SAX
- ME-SWG
- ME-HC
- ME-LS
- ME-CZ
- ME-CA**
- ME-CX
- ME-AX
- ME-WX
- ME-WA
- ME-WL
- ME-WG
- ME-FX
- ME-PX
- ME-HPC-HPD
- ME-FC-FD
- ME-FH
- ME-SWN
- ME-HWN

Size, Impedance, Rated Ripple Current

| Case size φD×L(mm) | Items | 16 | | | 25 | | |
|-----------------------|-------|---------------------|-----------------------------------|--|---------------------|-----------------------------------|--|
| | | Capacitance (μF) | Impedance(Ωmax.) (20°C/100kHz) | Rated ripple current(mArms) (105°C/10k to 200kHz) | Capacitance (μF) | Impedance(Ωmax.) (20°C/100kHz) | Rated ripple current(mArms) (105°C/10k to 200kHz) |
| 5×11 | | 100 | 0.50 | 180 | | | |
| 6.3×11 | | 220 | 0.24 | 280 | 100 | 0.30 | 280 |
| 8×11.5 | | 330 | 0.16 | 410 | 220 | 0.16 | 410 |
| 8×11.5 | | 470 | 0.15 | 560 | 330 | 0.15 | 560 |
| 10×12.5 | | | | | 470 | 0.086 | 710 |
| 10×16 | | 1000 | 0.066 | 950 | | | |
| 10×20 | | | | | 1000 | 0.047 | 1150 |
| 12.5×20 | | 2200 | 0.042 | 1460 | | | |
| 12.5×25 | | 3300 | 0.035 | 1780 | 2200 | 0.035 | 1780 |
| 16×25 | | 4700 | 0.026 | 2000 | 3300 | 0.026 | 2000 |
| 16×31.5 | | 6800 | 0.022 | 2200 | 4700 | 0.022 | 2200 |

| Case size φD×L(mm) | Items | 35 | | | 50 | | |
|-----------------------|-------|---------------------|-----------------------------------|--|---------------------|-----------------------------------|--|
| | | Capacitance (μF) | Impedance(Ωmax.) (20°C/100kHz) | Rated ripple current(mArms) (105°C/10k to 200kHz) | Capacitance (μF) | Impedance(Ωmax.) (20°C/100kHz) | Rated ripple current(mArms) (105°C/10k to 200kHz) |
| 5×11 | | | | | 2.2 | 3.0 | 45 |
| 5×11 | | | | | 3.3 | 2.7 | 55 |
| 5×11 | | | | | 4.7 | 2.0 | 90 |
| 5×11 | | | | | 10 | 1.7 | 110 |
| 5×11 | | 33 | 0.72 | 180 | 22 | 1.2 | 120 |
| 5×11 | | 47 | 0.50 | 180 | 33 | 0.95 | 130 |
| 6.3×11 | | 100 | 0.24 | 280 | 47 | 0.56 | 190 |
| 8×11.5 | | 220 | 0.15 | 560 | 100 | 0.30 | 320 |
| 10×12.5 | | 330 | 0.086 | 710 | 220 | 0.16 | 520 |
| 10×16 | | 470 | 0.066 | 950 | 330 | 0.12 | 670 |
| 10×20 | | | | | 470 | 0.088 | 820 |
| 12.5×20 | | 1000 | 0.042 | 1460 | | | |
| 12.5×25 | | | | | 1000 | 0.053 | 1200 |
| 16×25 | | 2200 | 0.026 | 2000 | | | |
| 16×31.5 | | | | | 2200 | 0.029 | 1750 |
| 16×35.5 | | 3300 | 0.022 | 2200 | | | |

Please refer to page 14 for ripple current frequency coefficients.

Part number
