

ME-WX Series

High Ripple Current

Low Impedance

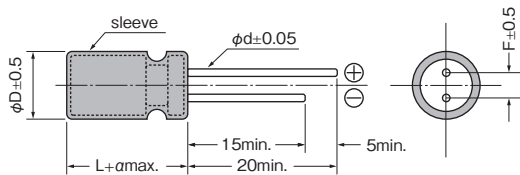


- 105°C 2,000 to 5,000hours
- Non solvent proof

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) | — | -40 to +105 | | | | | | |
| Capacitance tolerance (%) | 120Hz/20°C | M : ±20 | | | | | | |
| Dissipation Factor (tan δ) | tanδ(max.) 120Hz/20°C | 0.22 | 0.19 | 0.16 | 0.14 | 0.12 | 0.10 | |
| | | Exceeding 1,000μF, +0.02 every 1,000μF | | | | | | |
| Leakage current(LC) | μA/after 2minutes (max.), 20°C | 0.01CV | | | | | | |
| Impedance ratio at low temperature | Based on the value at 120Hz, +20°C | -25°C Z/Z _{20°C} | 2 | 2 | 2 | 2 | 2 | 2 |
| | | -40°C Z/Z _{20°C} | 3 | 3 | 3 | 3 | 3 | 3 |
| Endurance | 105°C rated voltage applied (With the rated ripple current) | Test | φ5 to φ6.3 : 2,000hours, φ8 : 3,000hours, φ10 : 4,000hours, φ12.5 to φ16 : 5,000hours | | | | | |
| | | ΔC/C | Within ±25% of the initial value | | | | | |
| | | tanδ | Less than 200% of the specified value | | | | | |
| | | LC | Less than the specified value | | | | | |

Dimensions



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

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 |

★φ12.5×30:φd=0.8

Size, Impedance, Rated Ripple Current

| Case size φD×L (mm) | 6.3 | | | 10 | | |
|------------------------|------------------|---------------------------------|--|------------------|---------------------------------|--|
| | Capacitance (μF) | Impedance (Ωmax.) (20°C/100kHz) | Rated ripple current (mA _{rms}) (105°C/100kHz) | Capacitance (μF) | Impedance (Ωmax.) (20°C/100kHz) | Rated ripple current (mA _{rms}) (105°C/100kHz) |
| 5×11 | 150 | 0.30 | 250 | 100 | 0.30 | 250 |
| 6.3×11 | 330 | 0.13 | 405 | 220 | 0.13 | 405 |
| 8×11.5 | 560 | 0.072 | 760 | 470 | 0.072 | 760 |
| 10×12.5 | 1000 | 0.053 | 1030 | 680 | 0.053 | 1030 |
| 10×16 | 1200 | 0.038 | 1430 | 1000 | 0.038 | 1430 |
| 10×20 | 1500 | 0.023 | 1820 | 1200 | 0.023 | 1820 |
| 10×20 | 2200 | 0.023 | 1820 | 1500 | 0.023 | 1820 |
| 10×23 | ★2 2200 | 0.022 | 2150 | ★2 1500 | 0.022 | 2150 |
| 12.5×20 | 3300 | 0.021 | 2360 | 2200 | 0.021 | 2360 |
| 12.5×25 | 3900 | 0.018 | 2770 | 3300 | 0.018 | 2770 |
| 12.5×30 | 4700 | 0.016 | 3290 | 3900 | 0.016 | 3290 |
| 16×21 | 5600 | 0.018 | 3140 | ★1 3900 | 0.018 | 3140 |
| 16×25 | 6800 | 0.016 | 3460 | 5600 | 0.016 | 3460 |

★1 WXS ★2 WXV

- ME-SZ
- ME-SAX
- ME-SWG
- ME-LS
- ME-CZ
- ME-CA
- ME-CX
- ME-AX
- ME-WX**
- ME-WA
- ME-WL
- ME-WG
- ME-FX
- ME-FC-FD
- ME-FH
- ME-SWN
- ME-HWN

■ Size, Impedance, Rated Ripple Current

| Case size Items φD×L(mm) | 16 | | | 25 | | | |
|--------------------------------|----|------------------|---------------------------------|--|------------------|---------------------------------|--|
| | V | Capacitance (μF) | Impedance (Ωmax.) (20°C/100kHz) | Rated ripple current (mA rms) (105°C/100kHz) | Capacitance (μF) | Impedance (Ωmax.) (20°C/100kHz) | Rated ripple current (mA rms) (105°C/100kHz) |
| 5×11 | | 56 | 0.30 | 250 | 47 | 0.30 | 250 |
| 6.3×11 | | 120 | 0.13 | 405 | 100 | 0.13 | 405 |
| 8×11.5 | | 330 | 0.072 | 760 | 220 | 0.072 | 760 |
| 10×12.5 | | 470 | 0.053 | 1030 | ★1 330 | 0.053 | 1030 |
| 10×16 | | 680 | 0.038 | 1430 | 470 | 0.038 | 1430 |
| 10×20 | | 1000 | 0.023 | 1820 | 680 | 0.023 | 1820 |
| 10×20 | | 1200 | 0.023 | 1820 | 820 | 0.023 | 1820 |
| 10×23 | | ★2 1200 | 0.022 | 2150 | ★2 820 | 0.022 | 2150 |
| 12.5×20 | | 1500 | 0.021 | 2360 | 1000 | 0.021 | 2360 |
| 12.5×25 | | 2200 | 0.018 | 2770 | 1500 | 0.018 | 2770 |
| 12.5×30 | | 2700 | 0.016 | 3290 | 1800 | 0.016 | 3290 |
| 16×21 | | ★1 2700 | 0.018 | 3140 | ★1 1800 | 0.018 | 3140 |
| 16×25 | | 3900 | 0.016 | 3460 | 2700 | 0.016 | 3460 |

| Case size Items φD×L(mm) | 35 | | | 50 | | | |
|--------------------------------|----|------------------|---------------------------------|--|------------------|---------------------------------|--|
| | V | Capacitance (μF) | Impedance (Ωmax.) (20°C/100kHz) | Rated ripple current (mA rms) (105°C/100kHz) | Capacitance (μF) | Impedance (Ωmax.) (20°C/100kHz) | Rated ripple current (mA rms) (105°C/100kHz) |
| 5×11 | | 33 | 0.30 | 250 | 22 | 0.34 | 238 |
| 6.3×11 | | 56 | 0.13 | 405 | 47 | 0.14 | 385 |
| 8×12.5 | | ★2 150 | 0.072 | 760 | 100 | 0.074 | 724 |
| 10×12.5 | | ★1 220 | 0.053 | 1030 | 150 | 0.061 | 979 |
| 10×16 | | 330 | 0.038 | 1430 | 220 | 0.042 | 1370 |
| 10×20 | | 470 | 0.023 | 1820 | 270 | 0.030 | 1580 |
| 10×23 | | ★2 560 | 0.022 | 2150 | 330 | 0.028 | 1870 |
| 12.5×20 | | 680 | 0.021 | 2360 | 470 | 0.027 | 2050 |
| 12.5×25 | | 1000 | 0.018 | 2770 | 560 | 0.023 | 2410 |
| 12.5×30 | | 1200 | 0.016 | 3290 | 680 | 0.021 | 2860 |
| 16×21 | | ★1 1200 | 0.018 | 3140 | 820 | 0.023 | 2730 |
| 16×25 | | 1800 | 0.016 | 3460 | 1000 | 0.021 | 3010 |

Please refer to page 14 for ripple current frequency coefficients.

★1 WXS ★2 WXV

■ Part number

