

RE Series

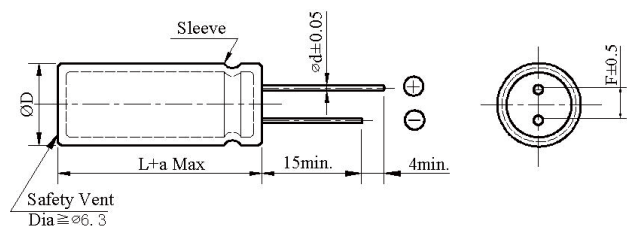
- Standard series for general purpose
- Load life 2,000 ~ 3,000 hours at 105°C
- RoHS Compliant



SPECIFICATIONS

| Item | Performance Characteristics | | | | | | | | | | | |
|--|---|-------------------------------|------|------|------|------------------------------|------|------|------|-----------|-----------|------------|
| Category Temperature Range | -40 ~ +105°C | | | | | | | | | | | |
| Working Voltage Range | 6.3 ~ 100Vdc | | | | | 160 ~ 500Vdc | | | | | | |
| Capacitance Range | 0.1 ~ 22,000μF | | | | | 0.47 ~ 470μF | | | | | | |
| Capacitance Tolerance | ±20% (at 20°C and 120Hz) | | | | | | | | | | | |
| Dissipation Factor (tanδ) (at 20°C, 120Hz) | Rated Voltage (V) | 6.3 | 10 | 16 | 25 | 35 | 50 | 63 | 100 | 160 ~ 250 | 350 ~ 500 | |
| | tanδ(Max) | 0.26 | 0.22 | 0.18 | 0.16 | 0.14 | 0.12 | 0.10 | 0.10 | 0.20 | 0.24 | |
| The above values should be increased by 0.02 for every additional 1000μF | | | | | | | | | | | | |
| Leakage Current | 6.3~100Vdc | | | | | 160~500Vdc | | | | | | |
| | I ≤ 0.01CV or 3μA, Which is greater(2minutes) | | | | | I ≤ 0.03CV + 10μA (2minutes) | | | | | | |
| I: Leakage current (μA) C: Rated capacitance (μF) V: Rated voltage (V) | | | | | | | | | | | | |
| Low Temperature Characteristics Impedance Ratio(MAX) | Rated Voltage (V) | 6.3 | 10 | 16 | 25 | 35 | 50 | 63 | 100 | 160 ~ 250 | 350 ~ 500 | (at 120Hz) |
| | Z(-25°C)/Z(+20°C) | 5 | 4 | 3 | 2 | 2 | 2 | 2 | 2 | 6 | 6 | |
| | Z(-40°C)/Z(+20°C) | 12 | 10 | 8 | 5 | 4 | 3 | 3 | 3 | 8 | 8 | |
| Endurance | The following specifications shall be satisfied when the capacitors are restored to 20°C after subjected to DC voltage with the rated ripple current is applied for 2,000~3,000 hours at 105°C. | | | | | | | | | | | |
| | Capacitance change | ≅ ±20% of the initial value | | | | | | | | | | |
| | Dissipation factor(tanδ) | ≅ 200% of the specified value | | | | | | | | | | |
| | Leakage current | ≅ specified value | | | | | | | | | | |
| Shelf Life | The following requirements shall be satisfied when the capacitor are restored to 20°C after the rated voltage applied for 1,000 hours at 105°C without voltage applied. | | | | | | | | | | | |
| | Capacitance change | ≅ ±20% of the initial value | | | | | | | | | | |
| | Dissipation factor(tanδ) | ≅ 200% of the specified value | | | | | | | | | | |
| | Leakage current | ≅ 200% of the specified value | | | | | | | | | | |

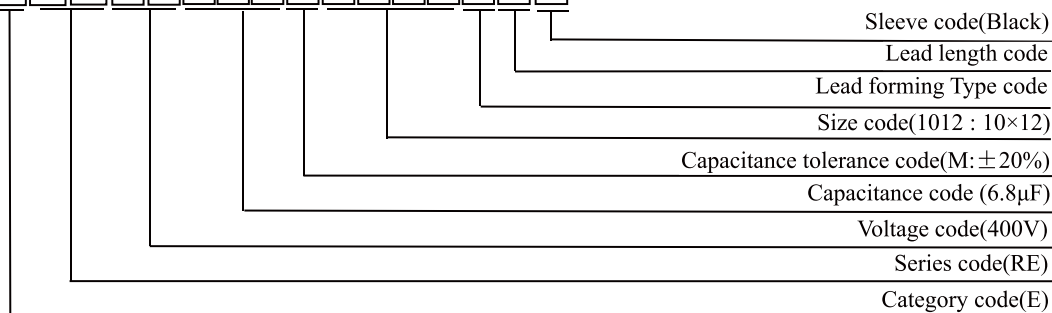
DIMENSIONS (mm)



| ΦD | 5 | 6.3 | 8 | 10 | 12.5 | 16 | 18 | 20 | 22 |
|----|-------------|-----|---------|-----|------|-----|-----|-------------|-----|
| ΦD | ΦD +0.5 Max | | | | | | | ΦD +1.0 Max | |
| Φd | 0.5 | 0.5 | 0.5/0.6 | 0.6 | 0.6 | 0.8 | 0.8 | 1.0 | 1.0 |
| F | 2.0 | 2.5 | 3.5 | 5.0 | 5.0 | 7.5 | 7.5 | 10 | 10 |
| a | L+2.0 Max | | | | | | | | |

PART NUMBER SYSTEM(Example : 400V 6.8μF)

E R E 2 G 6 R 8 M 1 0 1 2 0 0 B



RE Series

◆ Standard Ratings & Permissible rated ripple current

| WV (Vdc) | Cap (μF) | Case Size ΦD×L (mm) | Max. Rated ripple current mArms@105°C 120Hz |
|----------|----------|---------------------|---|
| 6.3 | 33 | 5×11 | 54 |
| | 47 | 5×11 | 64 |
| | 100 | 5×11 | 94 |
| | 220 | 5×11 | 140 |
| | 330 | 6.3×11 | 190 |
| | 470 | 6.3×11 | 230 |
| | 1000 | 8×12 | 380 |
| | 2200 | 10×20 | 710 |
| | 3300 | 10×20 | 840 |
| | 4700 | 12.5×20 | 1090 |
| | 6800 | 12.5×25 | 1350 |
| | 10000 | 16×25 | 1650 |
| | 15000 | 16×35 | 2010 |
| 22000 | 18×40 | 2350 | |
| 10 | 22 | 5×11 | 46 |
| | 33 | 5×11 | 57 |
| | 47 | 5×11 | 68 |
| | 100 | 5×11 | 100 |
| | 220 | 6.3×11 | 170 |
| | 330 | 6.3×11 | 200 |
| | 470 | 8×12 | 250 |
| | 1000 | 10×12 | 460 |
| | 2200 | 10×20 | 760 |
| | 3300 | 12.5×20 | 1000 |
| | 4700 | 12.5×25 | 1260 |
| | 6800 | 16×25 | 1570 |
| | 10000 | 16×35 | 1890 |
| 15000 | 18×35 | 2180 | |
| 16 | 10 | 5×11 | 34 |
| | 22 | 5×11 | 51 |
| | 33 | 5×11 | 63 |
| | 47 | 5×11 | 75 |
| | 100 | 5×11 | 110 |
| | 220 | 6.3×11 | 182 |
| | 330 | 8×12 | 260 |
| | 470 | 8×12 | 310 |
| | 1000 | 10×16 | 560 |
| | 2200 | 12.5×20 | 920 |
| | 3300 | 12.5×25 | 1170 |
| | 4700 | 16×25 | 1480 |
| | 6800 | 16×30 | 1780 |
| 10000 | 18×35 | 2060 | |
| 25 | 4.7 | 5×11 | 25 |
| | 10 | 5×11 | 36 |
| | 22 | 5×11 | 54 |
| | 33 | 5×11 | 67 |
| | 47 | 5×11 | 80 |
| | 100 | 6.3×11 | 130 |
| | 220 | 8×12 | 230 |
| | 330 | 8×12 | 310 |
| | 470 | 10×12 | 380 |
| 1000 | 10×20 | 680 | |

| WV (Vdc) | Cap (μF) | Case Size ΦD×L (mm) | Max. Rated ripple current mArms@105°C 120Hz | |
|----------|----------|---------------------|---|-----|
| 25 | 2200 | 12.5×25 | 1090 | |
| | 3300 | 16×25 | 1400 | |
| | 4700 | 16×30 | 1710 | |
| | 6800 | 18×35 | 2040 | |
| 35 | 4.7 | 5×11 | 28 | |
| | 10 | 5×11 | 41 | |
| | 22 | 5×11 | 61 | |
| | 33 | 5×11 | 75 | |
| | 47 | 5×11 | 90 | |
| | 100 | 6.3×11 | 150 | |
| | 220 | 8×12 | 270 | |
| | 330 | 10×12 | 350 | |
| | 470 | 10×16 | 460 | |
| | 1000 | 12.5×20 | 810 | |
| | 2200 | 16×25 | 1260 | |
| | 3300 | 16×35 | 1610 | |
| | 4700 | 18×35 | 1910 | |
| 50 | 0.1 | 5×11 | 1.3 | |
| | 0.22 | 5×11 | 2.9 | |
| | 0.33 | 5×11 | 4.3 | |
| | 0.47 | 5×11 | 6.2 | |
| | 1.0 | 5×11 | 13 | |
| | 2.2 | 5×11 | 20 | |
| | 3.3 | 5×11 | 25 | |
| | 4.7 | 5×11 | 30 | |
| | 10 | 5×11 | 40 | |
| | 22 | 5×11 | 65 | |
| | 33 | 6.3×11 | 90 | |
| | 47 | 6.3×11 | 110 | |
| | 100 | 8×12 | 180 | |
| 220 | 10×12 | 300 | | |
| 330 | 10×16 | 410 | | |
| 470 | 10×20 | 530 | | |
| 1000 | 12.5×25 | 950 | | |
| 2200 | 16×35 | 1470 | | |
| 3300 | 18×35 | 1770 | | |
| 63 | 10 | 5×11 | 46 | |
| | 22 | 5×11 | 71 | |
| | 33 | 6.3×11 | 100 | |
| | 47 | 6.3×11 | 120 | |
| | 100 | 10×12 | 215 | |
| | 220 | 10×16 | 335 | |
| | 330 | 10×20 | 510 | |
| | 470 | 12.5×20 | 640 | |
| | 1000 | 16×25 | 930 | |
| | 100 | 0.1 | 5×11 | 1.5 |
| | | 0.22 | 5×11 | 3.4 |
| | | 0.33 | 5×11 | 5.0 |
| | | 0.47 | 5×11 | 7.1 |
| 1.0 | | 5×11 | 15 | |
| 2.2 | | 5×11 | 21 | |
| 3.3 | | 5×11 | 29 | |

RE Series

◆ Standard Ratings & Permissible rated ripple current

| WV (Vdc) | Cap (μF) | Case Size ΦD×L (mm) | Max.Rated ripple current mArms@105°C 120Hz |
|----------|----------|---------------------|--|
| 100 | 4.7 | 5×11 | 32 |
| | 10 | 6.3×11 | 54 |
| | 22 | 8×12 | 93 |
| | 33 | 8×12 | 130 |
| | 47 | 10×12 | 165 |
| | 100 | 10×20 | 265 |
| | 220 | 12.5×25 | 440 |
| | 330 | 16×25 | 540 |
| | 470 | 16×30 | 715 |
| | 1000 | 18×40 | 985 |
| 160 | 3.3 | 6.3×11 | 32 |
| | 4.7 | 6.3×11 | 38 |
| | 10 | 8×12 | 65 |
| | 10 | 10×12 | 76 |
| | 22 | 10×12 | 98 |
| | 22 | 10×16 | 108 |
| | 22 | 10×20 | 120 |
| | 33 | 10×16 | 158 |
| | 33 | 10×20 | 165 |
| | 47 | 10×20 | 182 |
| | 47 | 12.5×20 | 205 |
| | 68 | 12.5×20 | 265 |
| | 100 | 12.5×25 | 318 |
| | 100 | 16×25 | 335 |
| | 220 | 16×30 | 568 |
| | 330 | 18×35 | 710 |
| 470 | 18×40 | 870 | |
| 200 | 1 | 6.3×11 | 16 |
| | 2.2 | 6.3×11 | 22 |
| | 3.3 | 6.3×11 | 32 |
| | 4.7 | 8×12 | 48 |
| | 10 | 8×12 | 78 |
| | 10 | 10×12 | 82 |
| | 10 | 10×16 | 86 |
| | 12 | 10×16 | 95 |
| | 15 | 10×16 | 110 |
| | 22 | 10×16 | 128 |
| | 22 | 10×20 | 132 |
| | 33 | 10×20 | 185 |
| | 33 | 12.5×20 | 194 |
| | 47 | 12.5×20 | 225 |
| | 68 | 12.5×25 | 308 |
| | 82 | 12.5×25 | 318 |
| | 100 | 16×25 | 345 |
| | 150 | 16×25 | 446 |
| | 180 | 16×30 | 560 |
| | 220 | 16×35 | 678 |
| 220 | 18×30 | 695 | |
| 330 | 18×35 | 755 | |
| 470 | 18×45 | 938 | |

| WV (Vdc) | Cap (μF) | Case Size ΦD×L (mm) | Max.Rated ripple current mArms@105°C 120Hz |
|----------|----------|---------------------|--|
| 250 | 2.2 | 6.3×11 | 22 |
| | 3.3 | 6.3×11 | 32 |
| | 3.3 | 8×12 | 34 |
| | 4.7 | 6.3×11 | 38 |
| | 4.7 | 8×12 | 48 |
| | 10 | 10×12 | 75 |
| | 10 | 10×16 | 84 |
| | 22 | 10×20 | 128 |
| | 22 | 12.5×20 | 145 |
| | 33 | 10×20 | 150 |
| | 33 | 12.5×20 | 185 |
| | 47 | 12.5×20 | 232 |
| | 47 | 12.5×25 | 245 |
| | 100 | 16×25 | 370 |
| | 100 | 16×30 | 400 |
| | 150 | 16×35 | 468 |
| 220 | 18×35 | 660 | |
| 220 | 18×40 | 702 | |
| 330 | 18×40 | 730 | |
| 350 | 0.47 | 6.3×11 | 11 |
| | 1 | 6.3×11 | 16 |
| | 2.2 | 8×12 | 26 |
| | 3.3 | 8×12 | 34 |
| | 3.3 | 10×12 | 38 |
| | 4.7 | 8×12 | 48 |
| | 4.7 | 10×12 | 52 |
| | 10 | 10×12 | 68 |
| | 10 | 10×16 | 82 |
| | 10 | 10×20 | 88 |
| | 22 | 12.5×20 | 154 |
| | 33 | 12.5×20 | 184 |
| 33 | 16×20 | 198 | |
| 47 | 16×25 | 250 | |
| 68 | 16×25 | 335 | |
| 100 | 18×30 | 398 | |
| 400 | 1 | 6.3×11 | 16 |
| | 2.2 | 6.3×11 | 30 |
| | 2.2 | 8×12 | 34 |
| | 3.3 | 8×12 | 35 |
| | 3.3 | 10×12 | 38 |
| | 4.7 | 8×12 | 48 |
| | 6.8 | 10×12 | 52 |
| | 10 | 10×16 | 98 |
| | 10 | 10×20 | 115 |
| | 22 | 12.5×25 | 192 |
| | 33 | 16×20 | 258 |
| | 47 | 16×25 | 305 |
| | 68 | 16×30 | 465 |
| | 68 | 18×25 | 445 |
| 82 | 18×25 | 474 | |

RE Series

◆ Standard Ratings & Permissible rated ripple current

| WV (Vdc) | Cap (μF) | Case Size ΦD×L (mm) | Max.Rated ripple current mArms@105°C 120Hz |
|----------|----------|---------------------|--|
| 400 | 100 | 16×40 | 544 |
| | 100 | 18×30 | 532 |
| | 120 | 18×35 | 588 |
| | 150 | 18×40 | 668 |
| 450 | 0.47 | 8×12 | 11 |
| | 1 | 8×12 | 18 |
| | 2.2 | 8×12 | 25 |
| | 2.2 | 10×12 | 32 |
| | 3.3 | 10×12 | 36 |
| | 3.3 | 10×16 | 40 |
| | 4.7 | 10×20 | 55 |
| | 10 | 10×20 | 90 |
| | 10 | 12.5×20 | 100 |
| | 22 | 12.5×25 | 168 |
| | 22 | 16×20 | 185 |
| | 33 | 16×25 | 215 |
| | 47 | 16×30 | 344 |
| | 68 | 18×25 | 455 |
| | 82 | 18×30 | 472 |
| | 100 | 18×35 | 530 |
| 120 | 18×40 | 582 | |
| 150 | 18×50 | 700 | |

| WV (Vdc) | Cap (μF) | Case Size ΦD×L (mm) | Max.Rated ripple current mArms@105°C 120Hz |
|----------|----------|---------------------|--|
| 500 | 4.7 | 10×16 | 50 |
| | 10 | 12.5×20 | 115 |
| | 15 | 12.5×25 | 140 |
| | 22 | 16×25 | 185 |
| | 33 | 18×25 | 215 |
| | 47 | 18×30 | 345 |
| | 68 | 18×35 | 390 |
| | 82 | 18×40 | 490 |
| | 100 | 22×35 | 535 |
| | 120 | 22×40 | 550 |
| | 150 | 22×45 | 580 |

◆ RIRIPPLE CURRENT MULTIPLIERS Frequency Multipliers

| Cap(μF) | Frequency (Hz) | | | | | |
|--------------|----------------|------|------|------|------|------|
| | 50 | 120 | 300 | 1K | 10K | 100K |
| Cap<10 | 0.65 | 1.00 | 1.35 | 1.75 | 2.30 | 2.50 |
| 10≤Cap<100 | 0.75 | 1.00 | 1.25 | 1.50 | 1.75 | 1.80 |
| 100≤Cap≤1000 | 0.80 | 1.00 | 1.15 | 1.30 | 1.40 | 1.50 |
| Cap>1000 | 0.85 | 1.00 | 1.03 | 1.05 | 1.08 | 1.08 |

X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for [Aluminium Electrolytic Capacitors - Radial Leaded](#) category:

Click to view products by [TOPAZ](#) manufacturer:

Other Similar products are found below :

[LXY50VB4.7M-5X11](#) [RFO-100V471MJ7P#](#) [ECE-A1EGE220](#) [B41041A7226M8](#) [B41044A7157M6](#) [NCD681K10KVY5PF](#)

[NEV1000M25EF-BULK](#) [NEV100M35DC](#) [NEV100M63DE](#) [NEV220M25DD-BULK](#) [NEV.33M100AA](#) [NEV4700M50HB](#) [NEV.47M100AA](#)

[NEVH1.0M250AB](#) [NEVH3.3M250BB](#) [NEVH3.3M450CC](#) [KME50VB100M-8X11.5](#) [SG220M1CSA-0407](#) [ES5107M016AE1DA](#)

[ESMG160ETD102MJ16S](#) [ESX472M16B](#) [227RZS050M](#) [476CKH100MSA](#) [477RZS050M](#) [B41793A9108Q1](#) [UVX1V101KPA1FA](#)

[UVX1V222MHA1CA](#) [KME25VB100M-6.3X11](#) [VTL100S10](#) [VTL470S10](#) [VTL470S16A](#) [511D336M250EK5D](#) [052687X](#) [ECE-A1CF471](#)

[NRE-S560M16V6.3X7TBSTF](#) [RGA221M1CTA-0611G](#) [ERZA630VHN182UP54N](#) [UPL1A331MPH](#) [NEV1000M6.3DE](#) [NEV100M16CB](#)

[NEV100M50DD-BULK](#) [NEV2200M16FF](#) [NEV220M50EE](#) [NEV2.2M50AA](#) [NEV330M63EF](#) [NEV4700M35HI](#) [NEV4.7M100BA](#)

[NEV47M16BA](#) [NEV47M50CB-BULK](#) [NEVH1.0M350AB](#)