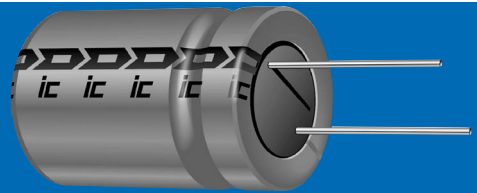


KBM

查询"105KBM050M"供应商

10,000 Hour Radial Lead Aluminum Electrolytic Capacitors



For Ballast applications and Switching power supplies.

FEATURES

- *Electronic Ballasts*
- *Long Life*
- *Switching Power Supplies*
- *High Temperature*
- *Power Adapters*
- *RoHS Compliant*

SPECIFICATIONS

| | | | | | | | | | | |
|--|---------------------------------------|--|--|-----|-----|-----------|--|------|-----|--|
| Operating Temperature Range | | -40°C to + 105°C | | | | | | | | |
| Capacitance Tolerance | | ±20% at 120Hz, 20°C | | | | | | | | |
| Surge Voltage | WVDC | 6.3 | 10 | 16 | 25 | 35 | 50 | 63 | 100 | |
| | SVDC | 7.9 | 13 | 20 | 32 | 44 | 63 | 79 | 125 | |
| Dissipation Factor (120 Hz, 20°C) | WVDC | 6.3 | 10 | 16 | 25 | 35 | 50 | 63 | 100 | |
| | tan δ | .22 | .19 | .16 | .14 | .12 | .1 | .09 | .08 | |
| | Add .02 for every 1000µF above 1000µF | | | | | | | | | |
| Leakage Current | | Time | 2 minutes | | | | | | | |
| | | .01CV or 3µA, Whichever is greater | | | | | | | | |
| Low Temperature Stability Impedance Ratio (120 Hz) | | WVDC | 6.3 | 10 | 16 | 25 to 100 | | | | |
| | | -25°C/+28°C | 4 | 3 | 2 | 2 | | | | |
| | | -40°C/+20°C | 8 | 6 | 4 | 3 | | | | |
| Load Life | | After application of rated voltage and ripple current applied at 105°C | | | | | | | | |
| | | WVDC | 6.3 to 10 | | | | 16 to 100 | | | |
| | | | D≤6.3mm, 4000 Hrs. D=8 to 10mm, 5000Hrs. D≥12mm, 8000 Hrs. | | | | D≤6.3mm, 5000 Hrs. D=8 to 10mm, 7000Hrs. D≥12mm, 10,000 Hrs. | | | |
| | | Capacitance change Dissipation factor Leakage current | ≤ 25% of initial measured value ≤ 200% of maximum specified value <100% of maximum specified value | | | | | | | |
| Shelf Life | | 1000 hours at 105°C with no voltage applied | | | | | | | | |
| | | Capacitance change Dissipation factor Leakage current | ≤ 25% of initial measured value ≤ 200% of maximum specified value <100% of maximum specified value | | | | | | | |
| Ripple Current Multipliers | | Frequency (Hz) | | | | | Temperature (°C) | | | |
| | | Capacitance (µF) | 120 | 1k | 10k | 100k | ≤65 | 75 | 85 | |
| | | .47 to 10 | .42 | .6 | .8 | 1.0 | 2.12 | 1.69 | 1.0 | |
| | | 22 to 33 | .55 | .75 | .90 | 1.0 | 2.12 | 1.69 | 1.0 | |
| | | 47 to 330 | .7 | .85 | .95 | 1.0 | 2.12 | 1.69 | 1.0 | |
| | | 470 to 1000 | .75 | .9 | .98 | 1.0 | 2.12 | 1.69 | 1.0 | |
| | | 2200 to 15000 | .8 | .95 | 1.0 | 1.0 | 2.12 | 1.69 | 1.0 | |

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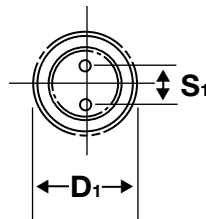
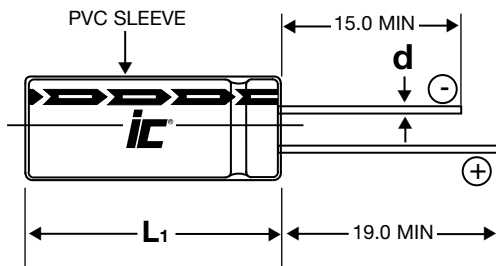
10,000 Hour
Radial Lead Aluminum
Electrolytic Capacitors

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PHYSICAL DIMENSIONS

| WVDC (μ F) | 6.3 (7.9) | 10 (13) | 16 (20) | 25 (32) | 35 (44) | 50 (63) | 63 (79) | 100 (125) |
|--------------------|--------------|------------|------------|------------|------------|------------|------------|--------------|
| 0.47 | | | | | | 5x11 | | 5x11 |
| 1 | | | | | | 5x11 | | 5x11 |
| 2.2 | | | | | | 5x11 | | 5x11 |
| 3.3 | | | | | | 5x11 | | 5x11 |
| 4.7 | | | | | | 5x11 | | 5x11 |
| 10 | | | | | | 5x11 | 5x11 | 6.3x11 |
| 22 | | | | | | 5x11 | 6.3x11 | 8x11.5 |
| 33 | | | | | 5x11 | 6.3x11 | 8x11.5 | 10x12.5 |
| 47 | | | | 5x11 | | 6.3x11 | 8x11.5 | 10x16 |
| 100 | | 5x11 | | 6.3x11 | 8x11.5 | 8x14 | 10x16 | 12.5x20 |
| 220 | | 6.3x11 | | 8x11.5 | 10x12.5 | 10x16 | 10x25 | 16x25 |
| 330 | 6.3x11 | | 8x11.5 | 10x12.5 | 10x16 | 10x20 | 12.5x20 | 16x25 |
| 470 | | 8x11.5 | 10x12.5 | 10x16 | 10x20 | 12.5x20 | 12.5x25 | |
| 1000 | 10x12.5 | 10x16 | 10x20 | 12.5x20 | 12.5x25 | 16x25 | 16x35.5 | |
| 2200 | | 12.5x20 | 12.5x25 | 16x25 | 16x31.5 | 18x35.5 | | |
| 3300 | 12.5x20 | 12.5x25 | 16x25 | 16x31.5 | 18x35.5 | | | |
| 4700 | | 16x25 | 16x31.5 | 18x35.5 | | | | |
| 6800 | 16x25 | 16x31.5 | 18x35.5 | | | | | |
| 10000 | 16x31.5 | 18x35.5 | | | | | | |
| 15000 | 18x35.5 | | | | | | | |

D x L (mm)



LEAD Spacing vs. Case Diameter

| D | 5 | 6.3 | 8 | 10 | 12.5 | 16 | 18 |
|---|-----|-----|-----|-----|------|-----|-----|
| S | 2.0 | 2.5 | 3.5 | 5.0 | 5.0 | 7.5 | 7.5 |
| d | 0.5 | 0.5 | 0.6 | 0.6 | 0.6 | 0.8 | 0.8 |
| B | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 |

$L_1 = L + 1.5\text{mm Max.}$

$D_1 = D + 0.5\text{mm Max.}$

$S_1 = S + 0.5\text{mm}$

mm

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STANDARD PART LISTING

| Capacitance (μ F) | WVDC | IC [®] PART NUMBER | Maximum ESR Ω 120Hz, +20°C | Impedance Ω +20°C/-10°C 100kHz | Maximum RMS Ripple Current (mA) +105°C 100kHz | Dimensions DxL (mm) |
|---------------------------|------|--------------------------------|--|--|--|---------------------------|
| 0.47 | 50 | 474KBM050M | 352.916 | 5.658/16.973 | 25 | 5x11 |
| 0.47 | 100 | 474KBM100M | 282.333 | 5.301/15.902 | 26 | 5x11 |
| 1 | 50 | 105KBM050M | 165.87 | 3.989/11.966 | 36 | 5x11 |
| 1 | 100 | 105KBM100M | 132.696 | 3.737/11.211 | 37 | 5x11 |
| 2.2 | 50 | 225KBM050M | 75.3957 | 2.417/7.252 | 55 | 5x11 |
| 2.2 | 100 | 225KBM100M | 60.3165 | 2.265/6.794 | 55 | 5x11 |
| 3.3 | 50 | 335KBM050M | 50.2638 | 2.014/6.043 | 65 | 5x11 |
| 3.3 | 100 | 335KBM100M | 40.211 | 1.887/5.662 | 65 | 5x11 |
| 4.7 | 50 | 475KBM050M | 35.2916 | 1.697/5.092 | 80 | 5x11 |
| 4.7 | 100 | 475KBM100M | 28.2333 | 1.59/4.771 | 80 | 5x11 |
| 10 | 50 | 106KBM050M | 16.587 | 1.33/3.989 | 110 | 5x11 |
| 10 | 63 | 106KBM063M | 14.9283 | 1.246/3.737 | 120 | 5x11 |
| 10 | 100 | 106KBM100M | 13.2696 | 1.246/3.737 | 130 | 6.3x11 |
| 22 | 50 | 226KBM050M | 7.53957 | 0.725/2.176 | 140 | 5x11 |
| 22 | 63 | 226KBM063M | 6.78561 | 0.679/2.038 | 180 | 6.3x11 |
| 22 | 100 | 226KBM100M | 6.03165 | 0.679/2.038 | 190 | 8x11.5 |
| 33 | 35 | 336KBM035M | 6.03165 | 0.635/1.905 | 160 | 5x11 |
| 33 | 50 | 336KBM050M | 5.02638 | 0.564/1.692 | 200 | 6.3x11 |
| 33 | 63 | 336KBM063M | 4.52374 | 0.528/1.585 | 250 | 8x11.5 |
| 33 | 100 | 336KBM100M | 4.0211 | 0.317/0.951 | 270 | 10x12.5 |
| 47 | 25 | 476KBM025M | 4.94082 | 0.539/1.616 | 170 | 5x11 |
| 47 | 50 | 476KBM050M | 3.52916 | 0.453/1.358 | 230 | 6.3x11 |
| 47 | 63 | 476KBM063M | 3.17624 | 0.424/1.272 | 280 | 8x11.5 |
| 47 | 100 | 476KBM100M | 2.82333 | 0.254/0.763 | 350 | 10x16 |
| 100 | 10 | 107KBM010M | 3.15154 | 0.482/1.446 | 210 | 5x11 |
| 100 | 25 | 107KBM025M | 2.32219 | 0.348/1.045 | 280 | 6.3x11 |
| 100 | 35 | 107KBM035M | 1.99045 | 0.329/0.988 | 370 | 8x11.5 |
| 100 | 50 | 107KBM050M | 1.6587 | 0.292/0.877 | 420 | 8x14 |
| 100 | 63 | 107KBM063M | 1.49283 | 0.192/0.575 | 530 | 10x16 |
| 100 | 100 | 107KBM100M | 1.32696 | 0.164/0.493 | 640 | 12.5x20 |
| 220 | 10 | 227KBM010M | 1.43252 | 0.249/0.747 | 350 | 6.3x11 |
| 220 | 25 | 227KBM025M | 1.05554 | 0.18/0.54 | 480 | 8x11.5 |
| 220 | 35 | 227KBM035M | 0.90475 | 0.128/0.383 | 640 | 10x12.5 |
| 220 | 50 | 227KBM050M | 0.75396 | 0.113/0.34 | 760 | 10x16 |
| 220 | 63 | 227KBM063M | 0.67856 | 0.099/0.297 | 960 | 10x25 |
| 220 | 100 | 227KBM100M | 0.60317 | 0.085/0.255 | 1200 | 16x25 |
| 330 | 6.3 | 337KBM6R3M | 1.1058 | 0.246/0.737 | 410 | 6.3x11 |
| 330 | 16 | 337KBM016M | 0.80422 | 0.152/0.455 | 520 | 8x11.5 |

| Capacitance (μ F) | WVDC | IC [®] PART NUMBER | Maximum ESR Ω 120Hz, +20°C | Impedance Ω +20°C/-10°C 100kHz | Maximum RMS Ripple Current (mA) +105°C 100kHz | Dimensions DxL (mm) |
|---------------------------|------|--------------------------------|--|--|--|---------------------------|
| 330 | 25 | 337KBM025M | 0.7037 | 0.108/0.324 | 700 | 10x12.5 |
| 330 | 35 | 337KBM035M | 0.6032 | 0.102/0.306 | 870 | 10x16 |
| 330 | 50 | 337KBM050M | 0.5026 | 0.091/0.272 | 1020 | 10x20 |
| 330 | 63 | 337KBM063M | 0.4524 | 0.079/0.238 | 1210 | 12.5x20 |
| 330 | 100 | 337KBM100M | 0.4021 | 0.068/0.204 | 1470 | 16x25 |
| 470 | 10 | 477KBM010M | 0.6705 | 0.138/0.415 | 560 | 8x11.5 |
| 470 | 16 | 477KBM016M | 0.5647 | 0.093/0.279 | 690 | 10x12.5 |
| 470 | 25 | 477KBM025M | 0.4941 | 0.088/0.265 | 860 | 10x16 |
| 470 | 35 | 477KBM035M | 0.4235 | 0.084/0.251 | 1070 | 10x20 |
| 470 | 50 | 477KBM050M | 0.3529 | 0.074/0.223 | 1290 | 12.5x20 |
| 470 | 63 | 477KBM063M | 0.3176 | 0.065/0.195 | 1480 | 12.5x25 |
| 1000 | 6.3 | 108KBM6R3M | 0.3649 | 0.066/0.199 | 920 | 10x12.5 |
| 1000 | 10 | 108KBM010M | 0.3152 | 0.063/0.189 | 1070 | 10x16 |
| 1000 | 16 | 108KBM016M | 0.2654 | 0.06/0.18 | 1230 | 10x20 |
| 1000 | 25 | 108KBM025M | 0.2322 | 0.057/0.171 | 1580 | 12.5x20 |
| 1000 | 35 | 108KBM035M | 0.1990 | 0.054/0.162 | 1940 | 12.5x25 |
| 1000 | 50 | 108KBM050M | 0.1659 | 0.048/0.144 | 2390 | 16x25 |
| 1000 | 63 | 108KBM063M | 0.1493 | 0.042/0.126 | 2900 | 16x35.5 |
| 2200 | 10 | 228KBM010M | 0.1734 | 0.036/0.108 | 1720 | 12.5x20 |
| 2200 | 16 | 228KBM016M | 0.1508 | 0.034/0.103 | 1960 | 12.5x25 |
| 2200 | 25 | 228KBM025M | 0.1357 | 0.032/0.097 | 2540 | 16x25 |
| 2200 | 35 | 228KBM035M | 0.1206 | 0.031/0.092 | 3070 | 16x31.5 |
| 2200 | 50 | 228KBM050M | 0.1056 | 0.027/0.082 | 3650 | 18x35.5 |
| 3300 | 6.3 | 338KBM6R3M | 0.1307 | 0.032/0.095 | 1910 | 12.5x20 |
| 3300 | 10 | 338KBM010M | 0.1257 | 0.03/0.09 | 2170 | 12.5x25 |
| 3300 | 16 | 338KBM016M | 0.1106 | 0.029/0.086 | 2570 | 16x25 |
| 3300 | 25 | 338KBM025M | 0.1005 | 0.027/0.081 | 3180 | 16x31.5 |
| 3300 | 35 | 338KBM035M | 0.0905 | 0.026/0.077 | 3870 | 18x35.5 |
| 4700 | 10 | 478KBM010M | 0.0953 | 0.025/0.076 | 2730 | 16x25 |
| 4700 | 16 | 478KBM016M | 0.0847 | 0.024/0.073 | 3100 | 16x31.5 |
| 4700 | 25 | 478KBM025M | 0.0776 | 0.023/0.069 | 3880 | 18x35.5 |
| 6800 | 6.3 | 688KBM6R3M | 0.0732 | 0.024/0.071 | 2920 | 16x25 |
| 6800 | 10 | 688KBM010M | 0.0756 | 0.023/0.068 | 3300 | 16x31.5 |
| 6800 | 16 | 688KBM016M | 0.0683 | 0.022/0.065 | 3800 | 18x35.5 |
| 10000 | 6.3 | 109KBM6R3M | 0.0663 | 0.021/0.064 | 3450 | 16x31.5 |
| 10000 | 10 | 109KBM010M | 0.0614 | 0.02/0.061 | 3940 | 18x35.5 |
| 15000 | 6.3 | 159KBM6R3M | 0.0553 | 0.02/0.061 | 4130 | 18x35.5 |