C4BS, 850 - 3,000 VDC/550 - 750 VAC



Overview

The C4BS capacitor is a polypropylene metallized film and polyester double-metallized foil capacitor with a rectangular, plastic box-type design filled with resin. It has a tinned brass lug direct IGBT mounting.

Applications

Typical applications include snubber, clamping, resonance, coupling/decoupling, pulse, and blocking.

Benefits

- · Self-healing
- Low loss
- · High ripple current
- · High contact reliability
- · Suitable for high frequency applications



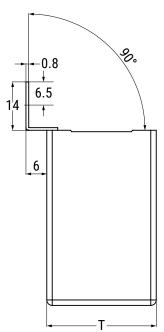
Part Number System

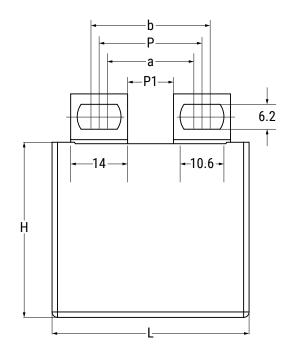
| C4 | BS | M | В | X | 3470 | Z | E | E | J |
|---|--|---|---|-----------------------|---|------------------|---|---------------------------|-------------------|
| Series | Туре | Rated Voltage (VDC) | Case | Lead Specification | Capacitance Code (pF) | Internal Code | Termination Style | Size Code | Tolerance |
| C4 = MKP Capacitors for Power Applications | BS = Radial box with tab terminals, IGBT application | M = 850 N = 1,000 P = 1,200 W = 2,000 Y = 3,000 | B = Plastic box with thermosetting resin sealing | X = Standard | Digits 2-4 indicate the first three digits of the capacitance value. First digit indicates the number of zeros to be added. | Z = Standard | A = Style A B = Style B D = Style D E = Style E F = Style F G = Style G H = Style H M = Style M T = Style T W = Style W X = Style X | See Dimension Table | J = 5% K = 10% |



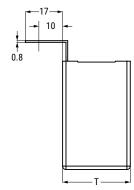
Dimensions - Millimeters

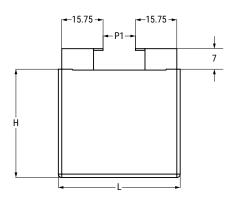
Style A

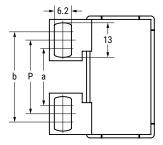




Style B

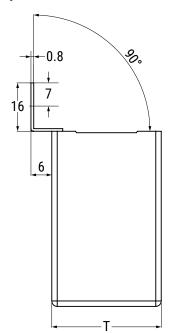


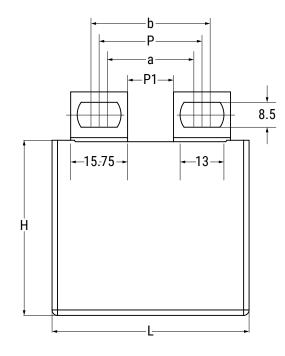




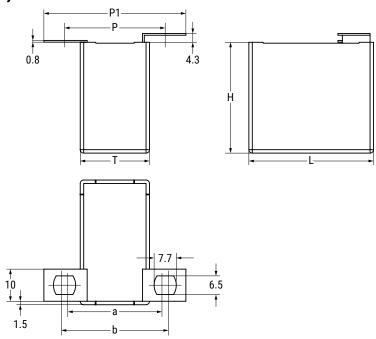


Style D



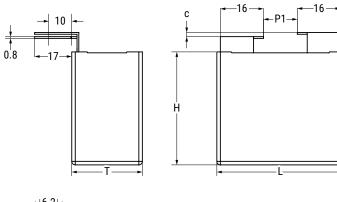


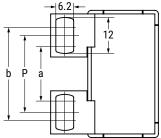
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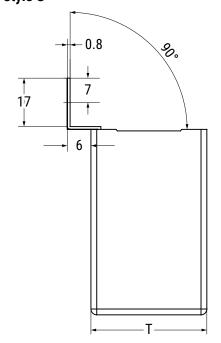


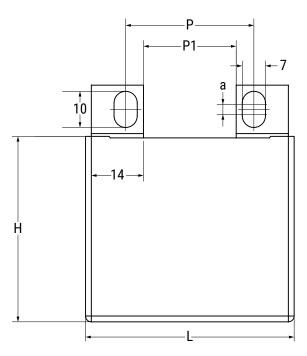
Style F





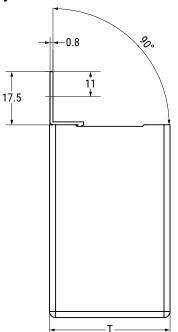
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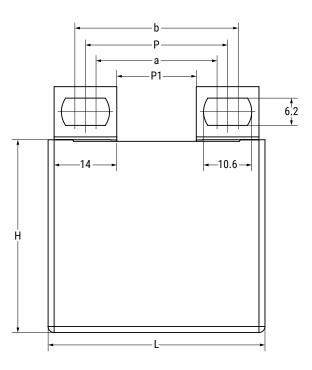




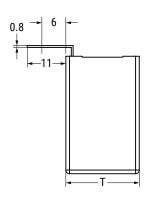


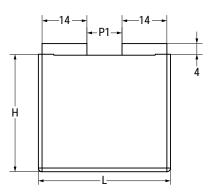
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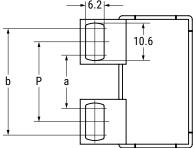




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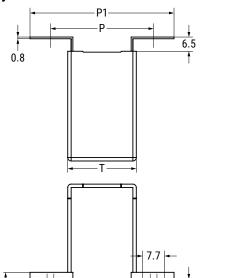


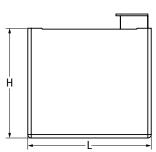




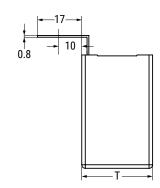


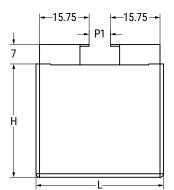
Style T

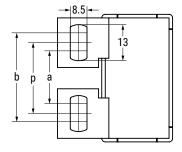




Style W

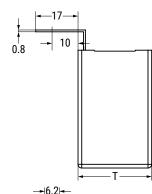


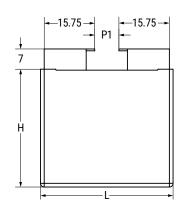


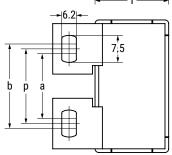




Style X







| Size Code | 1 | Γ | F | 1 | L | | |
|-----------|---------|-----------|---------|-----------|---------|-----------|--|
| | Nominal | Tolerance | Nominal | Tolerance | Nominal | Tolerance | |
| F | 20 | +0.4/-0.7 | 40 | +0.2/-0.7 | 41.5 | +1.5/-0.7 | |
| Н | 24 | +0.4/-0.7 | 44 | +0.2/-0.7 | 41.5 | +1.5/-0.7 | |
| J | 28 | +0.4/-0.7 | 37 | +0.2/-0.7 | 42.5 | +1.5/-0.7 | |
| L | 30 | +0.4/-0.7 | 45 | +0.2/-0.7 | 42.0 | +1.5/-0.7 | |
| М | 30 | +0.5/-0.7 | 45 | +0.3/-0.7 | 57.5 | +1.2/-0.7 | |
| N | 35 | +0.5/-0.7 | 50 | +0.3/-0.7 | 57.5 | +1.2/-0.7 | |

| Ctylo | Size | Р | P1 | a | b |
|---------|------------|------|---------|------|------|
| Style | Code | ±0.2 | Nominal | ±0.2 | ±0.2 |
| A 11 M | F, H, J, L | 25.5 | 10.5 | 21.5 | 29.5 |
| A, H, M | M, N | 41.0 | 25.0 | 37.0 | 45.0 |
| B, F | F, H, J, L | 22.0 | 6.0 | 16.0 | 28.0 |
| Б, Г | M - N | 37.0 | 21.0 | 31.0 | 43.0 |
| | F, H, J, L | 22.0 | 10.5 | 4.0 | - |
| G | M - N | 37.0 | 25.0 | 4.0 | - |
| D | F, J, H,L | 22.0 | 6.0 | 18.0 | 26.0 |
| D | M, N | 37.0 | 21.0 | 33.0 | 41.0 |
| W | F, J, H,L | 22.0 | 6.0 | 17.0 | 27.0 |
| VV | M, N | 37.0 | 21.0 | 32.0 | 42.0 |
| Х | F, J, H,L | 22.0 | 6.0 | 20.5 | 23.5 |
| X | M, N | 37.0 | 21.0 | 35.5 | 38.5 |
| E, T | F | 33.0 | 46.0 | 31.0 | 35.0 |



Qualifications

| Reference Standards | IEC 61071, EN61071, VDE0560 | | | | | |
|---------------------|-----------------------------------|--|--|--|--|--|
| Climatic Category | 40/85/56 according to IEC 60068-1 | | | | | |

Performance Characteristics

| ļ | - |
|---|---|
| Temperature Range | -40°C to +85°C |
| Maximum Permissible Ambient Temperature | +70°C |
| Capacitance Tolerance Code (15th Digit) | J = ±5% , K = ±10% |
| Peak Non-Repetitive Maximum Current | I _{PKR} x 1.5 |
| Peak Non-Repetitive Maximum Current | I _{PKR} x 1.5 |
| Test Voltage Terminal to Terminal $V_{\scriptscriptstyle TT}$ | 2 V _n for 10 seconds at +25°C |
| Dissipation Factor (DF) | ≥ 5 x 10 ⁻⁴ at 1 kHz and +20°C |
| Acceptable Relative Humidity | Annual average ≤ 70% ≤ 85% for ≤ 30 intermittant days annually Dewing not admissible |
| IEC Climatic Category | 40/85/56 according to IEC 68-1 |
| Capacitance Deviation in Operating Temperature Range of −40°C to +85°C | ±2% maximum on capacitance value measured at +25°C |
| Change of Capacitance vs. Operating Time | -3% after 100,000 hours at $V_{\scriptscriptstyle n}$ or 30,000 hours at $V_{\scriptscriptstyle rms}$ |
| Case Components | Solvent resistant plastic case with epoxy and polyurethanic resin sealing, Flame retardant execution (UL Class 94V-0) |
| Terminals | Tinned copper wires |
| Installation | Any position |
| Life Expectancy | \geq 100,000 hours at V _n or 30,000 hours at V _{rms} |
| Failure Quota | 300/109 components per hour |



Table 1 - Ratings & Part Number Reference

| Cap | VDC | VAC | Peak | Size | | Maximun ensions (| | Ripple Current | Peak Current | ESR (max) | ESL | dV/dt | Packaging | Part |
|---------------|--------------|------------|--------------|--------------|----------|----------------------|--------------|---------------------|-----------------|----------------|----------|-----------------|-----------------------|--|
| Value (µF) | VDC | VAC | VDC | Code | Т | Н | L | 100 kHz 70°C (A) | (A) | 100kHz (mΩ) | (nH) | (V/µs) | Quantity | Number |
| 0.47 | 850 | 550 | 1200 | F | 20 | 40 | 41.5 | 16 | 356 | 8.2 | 41 | 758 | 52 | C4BSMBX3470Z(1)FJ |
| 0.47 | 850 | 550 | 1200 | F | 20 | 40 | 41.5 | 16 | 356 | 8.2 | 41 | 758 | 48 | C4BSMBX3470Z(2)FJ |
| 0.47 | 850 | 550 | 1200 | F | 20 | 40 | 41.5 | 16 | 356 | 8.2 | 41 | 758 | 40 | C4BSMBX3470Z(4)FJ |
| 0.68 | 850 | 550 | 1200 | F | 20 | 40 | 41.5 | 19 | 516 | 5.7 | 41 | 758 | 52 | C4BSMBX3680Z(1)FJ |
| 0.68 | 850 | 550 | 1200 | F | 20 | 40 | 41.5 | 19 | 516 | 5.7 | 41 | 758 | 48 | C4BSMBX3680Z(2)FJ |
| 0.68 | 850 | 550 | 1200 | F | 20 | 40 | 41.5 | 19 | 516 | 5.7 | 41 | 758 | 40 | C4BSMBX3680Z(4)FJ |
| 1 1 | 850 | 550 | 1200 | F | 20 | 40 | 41.5 | 22 | 758 | 4 | 41 | 758 | 52 | C4BSMBX4100Z(1)FJ |
| 1 | 850 | 550 | 1200 | F | 20 | 40 | 41.5 | 22 | 758 | 4 | 41 | 758 | 48 | C4BSMBX4100Z(2)FJ |
| 1 | 850 | 550 | 1200 | F | 20 | 40 | 41.5 | 22 | 758 | 4 | 41 | 758 | 40 | C4BSMBX4100Z(4)FJ |
| 1.5 | 850 | 550 | 1200 | J | 28 | 37 | 42.5 | 29 | 1138 | 2.7 | 36 | 758 | 36 | C4BSMBX4150Z(3)JJ |
| 2 | 850 | 550 | 1200 | L | 30 | 45 | 42 | 36 | 1517 | 2.1 | 43 | 758 | 32 | C4BSMBX4200Z(3)LJ |
| 2.2 | 850 | 550 | 1200 | L | 30 | 45 | 42 | 37 | 1668 | 1.9 | 43 | 758 | 32 | C4BSMBX4220Z(3)LJ |
| 2.5 | 850 | 550 | 1200 | М | 30 | 45 | 57.5 | 39 | 1174 | 1.7 | 45 | 469 | 24 | C4BSMBX4250Z(3)MJ |
| 3 | 850 | 550 | 1200 | М | 30 | 45 | 57.5 | 32 | 1408 | 3 | 45 | 469 | 24 | C4BSMBX4300Z(3)MJ |
| 3.3 | 850 | 550 | 1200 | M | 30 | 45 | 57.5 | 33 | 1549 | 2.8 | 45 | 469 | 24 | C4BSMBX4330Z(3)MJ |
| 4 | 850 | 550 | 1200 | N | 35 | 50 | 57.5 | 36 | 1878 | 2.3 | 48 | 469 | 21 | C4BSMBX4400Z(3)NJ |
| 5 | 850 | 550 | 1200 | N | 35 | 50 | 57.5 | 42 | 2347 | 1.9 | 48 | 469 | 21 | C4BSMBX4500Z(3)NJ |
| 0.47 | 1000 | 600 | 1300 | F | 20 | 40 | 41.5 | 16 | 389 | 7.6 | 41 | 827 | 52 | C4BSNBX3470Z(1)FJ |
| 0.47 | 1000 | 600 | 1300 | F | 20 | 40 | 41.5 | 16 | 389 | 7.6 | 41 | 827 | 48 | C4BSNBX3470Z(2)FJ |
| 0.47 | 1000 | 600 | 1300 | F | 20 | 40 | 41.5 | 16 | 389 | 7.6 | 41 | 827 | 40 | C4BSNBX3470Z(4)FJ |
| 0.68 | 1000 | 600 | 1300 | F | 20 | 40 | 41.5 | 20 | 563 | 5.3 | 41 | 827 | 52 | C4BSNBX3680Z(1)FJ |
| 0.68 | 1000 | 600 | 1300 | F | 20 | 40 | 41.5 | 20 | 563 | 5.3 | 41 | 827 | 48 | C4BSNBX3680Z(2)FJ |
| 0.68 | 1000 | 600 | 1300 | F | 20 | 40 | 41.5 | 20 | 563 | 5.3 | 41 | 827 | 40 | C4BSNBX3680Z(4)FJ |
| 1 | 1000 | 600 | 1300 | F | 20 | 40 | 41.5 | 23 | 827 | 3.7 | 41 | 827 | 52 | C4BSNBX4100Z(1)FJ |
| 1 | 1000 | 600 | 1300 | F | 20 | 40 | 41.5 | 23 | 827 | 3.7 | 41 | 827 | 48 | C4BSNBX4100Z(2)FJ |
| 1 1.5 | 1000 1000 | 600 | 1300 1300 | J | 20 28 | 40 37 | 41.5 42.5 | 23 30 | 827 1241 | 3.7 | 41 36 | 827 827 | 40 36 | C4BSNBX4100Z(4)FJ |
| 2 | 1000 | 600 600 | 1300 | L | 30 | 45 | 42.5 | 30 36 | 1655 | 2.5 2 | 43 | 827 827 | 30 | C4BSNBX4150Z(3)JJ C4BSNBX4200Z(3)LJ |
| 2.2 | 1000 | 600 | 1300 | ΙйΙ | 30 | 45 | 57.5 | 29 | 1127 | 3.8 | 45 | 512 | 32 24 | C4BSNBX4220Z(3)MJ |
| 2.2 | 1000 | 600 | 1300 | l ™ | 30 | 45 | 57.5 | 30 | 1280 | 3.3 | 45 | 512 | 24 | C4BSNBX4250Z(3)MJ |
| 3 | 1000 | 600 | 1300 | M | 30 | 45 | 57.5 | 33 | 1536 | 2.8 | 45 | 512 | 24 | C4BSNBX4300Z(3)MJ |
| 3.3 | 1000 | 600 | 1300 | M | 30 | 45 | 57.5 | 34 | 1690 | 2.6 | 45 | 512 | 24 | C4BSNBX4330Z(3)MJ |
| 4 | 1000 | 600 | 1300 | N | 35 | 50 | 57.5 | 40 | 2049 | 2.2 | 48 | 512 | 21 | C4BSNBX4400Z(3)NJ |
| 0.33 | 1200 | 630 | 1600 | F | 20 | 40 | 41.5 | 15 | 319 | 9.5 | 41 | 965 | 52 | C4BSPBX3330Z(1)FJ |
| 0.33 | 1200 | 630 | 1600 | F | 20 | 40 | 41.5 | 15 | 319 | 9.5 | 41 | 965 | 48 | C4BSPBX3330Z(1)FJ |
| 0.33 | 1200 | 630 | 1600 | F | 20 | 40 | 41.5 | 15 | 319 | 9.5 | 41 | 965 | 40 | C4BSPBX3330Z(4)FJ |
| 0.47 | 1200 | 630 | 1600 | F | 20 | 40 | 41.5 | 18 | 454 | 6.7 | 41 | 965 | 52 | C4BSPBX3470Z(1)FJ |
| 0.47 | 1200 | 630 | 1600 | F | 20 | 40 | 41.5 | 18 | 454 | 6.7 | 41 | 965 | 48 | C4BSPBX3470Z(2)FJ |
| 0.47 | 1200 | 630 | 1600 | F | 20 | 40 | 41.5 | 18 | 454 | 6.7 | 41 | 965 | 40 | C4BSPBX3470Z(4)FJ |
| 0.68 | 1200 | 630 | 1600 | F | 20 | 40 | 41.5 | 21 | 656 | 4.7 | 41 | 965 | 52 | C4BSPBX3680Z(1)FJ |
| 0.68 | 1200 | 630 | 1600 | F | 20 | 40 | 41.5 | 21 | 656 | 4.7 | 41 | 965 | 48 | C4BSPBX3680Z(2)FJ |
| 0.68 | 1200 | 630 | 1600 | F | 20 | 40 | 41.5 | 21 | 656 | 4.7 | 41 | 965 | 40 | C4BSPBX3680Z(4)FJ |
| 1 | 1200 | 630 | 1600 | J | 28 | 37 | 42.5 | 27 | 965 | 3.3 | 36 | 965 | 36 | C4BSPBX4100Z(3)JJ |
| 1.2 | 1200 | 630 | 1600 | Ĵ | 28 | 37 | 42.5 | 29 | 1158 | 2.8 | 36 | 965 | 36 | C4BSPBX4120Z(3)JJ |
| | | | | | T | Н | L | | | | | | | , , |
| Cap Value | VDC | VAC | Peak VDC | Size Code | | um Dime | ļ | Ripple Current | Peak Current | ESR | ESL | dV/dt (V/µs) | Packaging Quantity | Part Number |

^{(1) =} Code letter for lug style: A, D, G, H or M

Capacitance tolerance standard is J, K tolerance upon request.

^{(2) =} Code letter for lug style: B, E^* , F, W, or X; * Style E is possible only for size code F

^{(3) =} Code letter for lug style: A, B, D, F, G, H, M, W or X

^{(4) =} Code letter for lug style: T



Table 1 - Ratings & Part Number Reference cont.

| Cap Value | VDC | VAC | Peak | Size | | Maximun ensions (| | Ripple Current | Peak Current | ESR (max) | ESL | dV/dt | Packaging | Part |
|--------------|------|-----|------|------|-------|----------------------|--------|---------------------|-----------------|----------------|------|--------|-----------|-------------------|
| (μF) | | | VDC | Code | Т | Н | L | 100 kHz 70°C (A) | (A) | 100kHz (mΩ) | (nH) | (V/µs) | Quantity | Number |
| 1.5 | 1200 | 630 | 1600 | L | 30 | 45 | 42 | 34 | 1448 | 2.3 | 43 | 965 | 32 | C4BSPBX4150Z(3)LJ |
| 2 | 1200 | 630 | 1600 | М | 30 | 45 | 57.5 | 29 | 1195 | 3.6 | 45 | 598 | 24 | C4BSPBX4200Z(3)MJ |
| 2.2 | 1200 | 630 | 1600 | М | 30 | 45 | 57.5 | 30 | 1315 | 3.3 | 45 | 598 | 24 | C4BSPBX4220Z(3)MJ |
| 2.5 | 1200 | 630 | 1600 | М | 30 | 45 | 57.5 | 32 | 1494 | 2.9 | 45 | 598 | 24 | C4BSPBX4250Z(3)MJ |
| 3 | 1200 | 630 | 1600 | N | 35 | 50 | 57.5 | 37 | 1793 | 2.5 | 48 | 598 | 21 | C4BSPBX4300Z(3)NJ |
| 3.3 | 1200 | 630 | 1600 | N | 35 | 50 | 57.5 | 39 | 1972 | 2.3 | 48 | 598 | 21 | C4BSPBX4330Z(3)NJ |
| 0.1 | 2000 | 700 | 2400 | F | 20 | 40 | 41.5 | 10 | 138 | 23.3 | 41 | 1379 | 52 | C4BSWBX3100Z(1)FJ |
| 0.1 | 2000 | 700 | 2400 | F | 20 | 40 | 41.5 | 10 | 138 | 23.3 | 41 | 1379 | 48 | C4BSWBX3100Z(2)FJ |
| 0.1 | 2000 | 700 | 2400 | F | 20 | 40 | 41.5 | 10 | 138 | 23.3 | 41 | 1379 | 40 | C4BSWBX3100Z(4)FJ |
| 0.15 | 2000 | 700 | 2400 | F | 20 | 40 | 41.5 | 12 | 207 | 15.6 | 41 | 1379 | 52 | C4BSWBX3150Z(1)FJ |
| 0.15 | 2000 | 700 | 2400 | F | 20 | 40 | 41.5 | 12 | 207 | 15.6 | 41 | 1379 | 48 | C4BSWBX3150Z(2)FJ |
| 0.15 | 2000 | 700 | 2400 | F | 20 | 40 | 41.5 | 12 | 207 | 15.6 | 41 | 1379 | 40 | C4BSWBX3150Z(4)FJ |
| 0.22 | 2000 | 700 | 2400 | F | 20 | 40 | 41.5 | 14 | 303 | 10.7 | 41 | 1379 | 52 | C4BSWBX3220Z(1)FJ |
| 0.22 | 2000 | 700 | 2400 | F | 20 | 40 | 41.5 | 14 | 303 | 10.7 | 41 | 1379 | 48 | C4BSWBX3220Z(2)FJ |
| 0.22 | 2000 | 700 | 2400 | F | 20 | 40 | 41.5 | 14 | 303 | 10.7 | 41 | 1379 | 40 | C4BSWBX3220Z(4)FJ |
| 0.33 | 2000 | 700 | 2400 | F | 20 | 40 | 41.5 | 17 | 455 | 7.2 | 41 | 1379 | 52 | C4BSWBX3330Z(1)FJ |
| 0.33 | 2000 | 700 | 2400 | F | 20 | 40 | 41.5 | 17 | 455 | 7.2 | 41 | 1379 | 48 | C4BSWBX3330Z(2)FJ |
| 0.33 | 2000 | 700 | 2400 | F | 20 | 40 | 41.5 | 17 | 455 | 7.2 | 41 | 1379 | 40 | C4BSWBX3330Z(4)FJ |
| 0.47 | 2000 | 700 | 2400 | F | 20 | 40 | 41.5 | 20 | 648 | 5.1 | 41 | 1379 | 52 | C4BSWBX3470Z(1)FJ |
| 0.47 | 2000 | 700 | 2400 | F | 20 | 40 | 41.5 | 20 | 648 | 5.1 | 41 | 1379 | 48 | C4BSWBX3470Z(2)FJ |
| 0.47 | 2000 | 700 | 2400 | F | 20 | 40 | 41.5 | 20 | 648 | 5.1 | 41 | 1379 | 40 | C4BSWBX3470Z(4)FJ |
| 0.68 | 2000 | 700 | 2400 | Н | 24 | 44 | 41.5 | 26 | 938 | 3.6 | 43 | 1379 | 44 | C4BSWBX3680Z(1)HJ |
| 0.68 | 2000 | 700 | 2400 | Н | 24 | 44 | 41.5 | 26 | 938 | 3.6 | 43 | 1379 | 40 | C4BSWBX3680Z(2)HJ |
| 0.82 | 2000 | 700 | 2400 | L | 30 | 45 | 42 | 30 | 1131 | 3 | 43 | 1379 | 32 | C4BSWBX3820Z(3)LJ |
| 1 | 2000 | 700 | 2400 | М | 30 | 45 | 57.5 | 24 | 854 | 5.1 | 45 | 854 | 24 | C4BSWBX4100Z(3)MJ |
| 1.2 | 2000 | 700 | 2400 | М | 30 | 45 | 57.5 | 26 | 1024 | 4.3 | 45 | 854 | 24 | C4BSWBX4120Z(3)MJ |
| 1.5 | 2000 | 700 | 2400 | N | 35 | 50 | 57.5 | 31 | 1280 | 3.5 | 48 | 854 | 21 | C4BSWBX4150Z(3)NJ |
| 0.047 | 3000 | 750 | 3500 | F | 20 | 40 | 41.5 | 8 | 97 | 36.6 | 41 | 2068 | 52 | C4BSYBX2470Z(1)FJ |
| 0.047 | 3000 | 750 | 3500 | F | 20 | 40 | 41.5 | 8 | 97 | 36.6 | 41 | 2068 | 48 | C4BSYBX2470Z(2)FJ |
| 0.047 | 3000 | 750 | 3500 | F | 20 | 40 | 41.5 | 8 | 97 | 36.6 | 41 | 2068 | 40 | C4BSYBX2470Z(4)FJ |
| 0.068 | 3000 | 750 | 3500 | F | 20 | 40 | 41.5 | 10 | 141 | 25.4 | 41 | 2068 | 52 | C4BSYBX2680Z(1)FJ |
| 0.068 | 3000 | 750 | 3500 | F | 20 | 40 | 41.5 | 10 | 141 | 25.4 | 41 | 2068 | 48 | C4BSYBX2680Z(2)FJ |
| 0.068 | 3000 | 750 | 3500 | F | 20 | 40 | 41.5 | 10 | 141 | 25.4 | 41 | 2068 | 40 | C4BSYBX2680Z(4)FJ |
| 0.1 | 3000 | 750 | 3500 | F | 20 | 40 | 41.5 | 12 | 207 | 17.3 | 41 | 2068 | 52 | C4BSYBX3100Z(1)FJ |
| 0.1 | 3000 | 750 | 3500 | F | 20 | 40 | 41.5 | 12 | 207 | 17.3 | 41 | 2068 | 48 | C4BSYBX3100Z(2)FJ |
| 0.1 | 3000 | 750 | 3500 | F | 20 | 40 | 41.5 | 12 | 207 | 17.3 | 41 | 2068 | 40 | C4BSYBX3100Z(4)FJ |
| 0.22 | 3000 | 750 | 3500 | F | 20 | 40 | 41.5 | 17 | 455 | 8 | 41 | 2068 | 52 | C4BSYBX3220Z(1)FJ |
| 0.22 | 3000 | 750 | 3500 | F | 20 | 40 | 41.5 | 17 | 455 | 8 | 41 | 2068 | 48 | C4BSYBX3220Z(2)FJ |
| 0.22 | 3000 | 750 | 3500 | F | 20 | 40 | 41.5 | 17 | 455 | 8 | 41 | 2068 | 40 | C4BSYBX3220Z(4)FJ |
| 0.33 | 3000 | 750 | 3500 | L | 30 | 45 | 42 | 24 | 683 | 5.4 | 43 | 2068 | 32 | C4BSYBX3330Z(3)LJ |
| 0.47 | 3000 | 750 | 3500 | М | 30 | 45 | 57.5 | 20 | 602 | 7.5 | 45 | 1280 | 24 | C4BSYBX3470Z(3)MJ |
| 0.68 | 3000 | 750 | 3500 | N | 35 | 50 | 57.5 | 23 | 871 | 5.3 | 48 | 1280 | 21 | C4BSYBX3680Z(3)NJ |
| 0.82 | 3000 | 750 | 3500 | N | 35 | 50 | 57.5 | 28 | 1050 | 4.4 | 48 | 1280 | 21 | C4BSYBX3820Z(3)NJ |
| Сар | | | Peak | Size | T | Н | L | Ripple | Peak | | | dV/dt | Packaging | Part |
| Value | VDC | VAC | VDC | Code | Maxim | um Dime | nsions | Current | Current | ESR | ESL | (V/µs) | Quantity | Number |

^{(1) =} Code letter for lug style: A, D, G, H or M

 ${\it Capacitance\ tolerance\ standard\ is\ J,\ K\ tolerance\ upon\ request.}$

^{(2) =} Code letter for lug style: B, E*, F, W, or X; * Style E is possible only for size code F

^{(3) =} Code letter for lug style: A, B, D, F, G, H, M, W or X

^{(4) =} Code letter for lug style: T



Environmental Compliance

As a leading global supplier of electronic components and an environmentally conscious company, KEMET continually aspires to improve the environmental effects of our manufacturing processes and our finished electronic components.

In Europe (RoHS Directive) and in some other geographical areas such as China (China RoHS), legislation has been enacted to prevent or otherwise limit the use of certain hazardous materials including lead (Pb), in electronic equipment. KEMET monitors legislation globally to ensure compliance and endeavors to adjust our manufacturing processes and/or electronic components as may be required by applicable law.

For military, medical, automotive, and some commercial applications, the use of lead (Pb) in the termination is necessary and/or required by design. KEMET is committed to communicating RoHS compliance to our customers. Information related to RoHS compliance will be provided in datasheets and using specific identifiers on the packaging labels.

All KEMET power film capacitors are RoHS compliant.

Materials & Environment

The selection of raw materials that KEMET uses for the production of its electronic components is the result of extensive experience. KEMET directs specific attention toward environmental protection. KEMET selects its suppliers according to ISO 9001 standards and performs statistical analyses on raw materials before acceptance for use in manufacturing our electronic components. All materials are, to the best of KEMET's knowledge, non-toxic and free from cadmium; mercury; chrome and compounds; polychlorine triphenyl (PCB); bromide and chlorinedioxins bromurate clorurate; CFC and HCFC; and asbestos.

Dissipation Factor

Dissipation factor is a complex function involved with capacitor inefficiency. The $tg\delta$ may vary up and down with increased temperature. For more information, refer to Performance Characteristics.

Sealing

Hermetically Sealed Capacitors

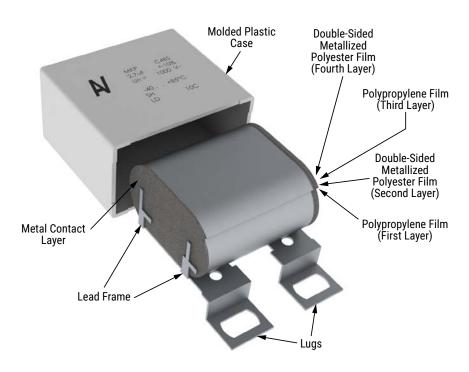
As the temperature increases, the pressure inside the capacitor increases. If the internal pressure is high enough, it can cause a breach in the capacitor. Such a breach can result in leakage, impregnation, filling fluid, or moisture susceptibility.

Barometric Pressure

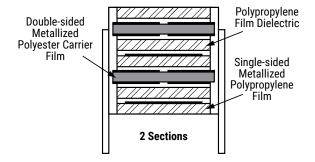
The altitude at which hermetically sealed capacitors are operated controls the capacitor's voltage rating. As the barometric pressure decreases, the susceptibility to terminal arc-over increases. Non-hermetic capacitors can be affected by internal stresses due to pressure changes. These effects can be in the form of capacitance changes, dielectric arc-over, and/or low insulation resistance. Altitude can also affect heat transfer. Heat that is generated in an operation cannot be dissipated properly, and high RI² losses and eventual failure can result.



Construction

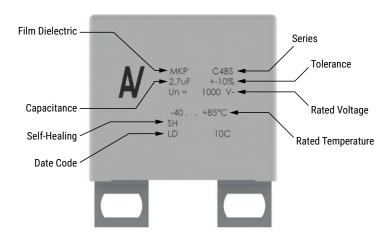


Winding Scheme





Marking





KEMET Electronics Corporation Sales Offices

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Although KEMET designs and manufactures its products to the most stringent quality and safety standards, given the current state of the art, isolated component failures may still occur. Accordingly, customer applications which require a high degree of reliability or safety should employ suitable designs or other safeguards (such as installation of protective circuitry or redundancies) in order to ensure that the failure of an electrical component does not result in a risk of personal injury or property damage.

Although all product-related warnings, cautions and notes must be observed, the customer should not assume that all safety measures are indicted or that other measures may not be required.

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