

FEATURES

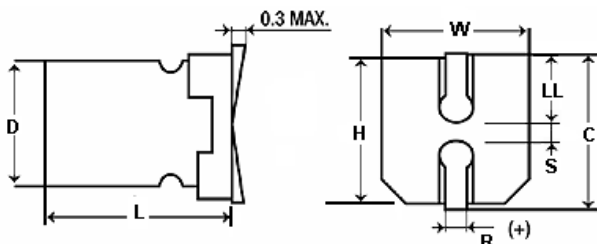
Small Size – Long Life – Low Impedance

APPLICATIONS

Filtering – Bypass/ Coupling – De-Coupling

| | | | | | | | |
|---|-----------------------|---|-----------------------------------|-----------|-----------|-----------|-----------|
| Operating Temperature Range | | -55°C to +105°C | | | | | |
| Capacitance Tolerance | | +20% at 120 Hz, 20°C | | | | | |
| Surge Voltage | WVDC | 6.3 | 10 | 16 | 25 | 35 | 50 |
| | SVDC | 7.9 | 13 | 20 | 32 | 44 | 63 |
| Dissipation Factor | WVDC | 6.3 | 10 | 16 | 35 | 50 | |
| | Tan δ | .26 | .19 | .16 | .12 | .12 | |
| Leakage Current | | 2 Minutes | | | | | |
| | | .01CV or 3uA, Whichever is greater | | | | | |
| Low Temperature Stability Impedance Ratio (120 Hz) | Rated WVDC | 6.3 | 10 | 16 | 25 | 35 | 50 |
| | -25°C to +20°C | 2 | 2 | 2 | 2 | 2 | 2 |
| | -40°C to +20°C | 3 | 3 | 3 | 3 | 3 | 3 |
| Load Life | | 5000 hours (3000 hours for D=4,5,6.3mm) at 105°C with rated WVDC | | | | | |
| | | Capacitance Change | ≤30% of initial measured value | | | | |
| | | Dissipation Factor | ≤200% of maximum specified value | | | | |
| | | Leakage Current | Not more than the specified value | | | | |
| Shelf Life | | 1000 hours at 85°C with no voltage applied | | | | | |
| | | Capacitance Change | ≤30% of initial measured value | | | | |
| | | Dissipation Factor | ≤200% of maximum specified value | | | | |
| | | Leakage Current | Not more than the specified value | | | | |
| Resistance to Soldering Heat | | Capacitors placed on a 250°C hot plate for 30 seconds with their electrode terminations facing downward will fulfill the following conditions after being cooled to room temperature | | | | | |
| | | Capacitance Change | ≤10% of initial measured value | | | | |
| | | Dissipation Factor | ≤100% of maximum specified value | | | | |
| | | Leakage Current | ≤100% of maximum specified value | | | | |
| Ripple Current Multipliers | | Frequency (Hz) | | | | | |
| | | 120 | 1k | 10k | 100k | | |
| | | 0.70 | 0.80 | 0.90 | 1.00 | | |

[Special Order Options](#)



| D | L | W +0.2 | H +0.2 | C max | R | S +0.2 |
|-----|---------------|-----------|-----------|----------|----------|-----------|
| 4 | 5.4 +0.3/-0.1 | 4.3 | 4.8 | 5.5 | 0.65±0.1 | 1.0 |
| 5 | 5.4 +0.3/-0.1 | 5.3 | 5.8 | 6.5 | 0.65±0.1 | 1.5 |
| 6.3 | 5.4 +0.3/-0.1 | 6.6 | 7.1 | 7.8 | 0.65±0.1 | 1.8 |
| 6.3 | 7.7 +/- 0.3 | 6.6 | 7.1 | 7.8 | 0.65±0.1 | 1.8 |
| 8 | 6.2 +/- 0.3 | 8.3 | 8.8 | 9.5 | 0.65±0.1 | 2.2 |
| 8 | 10.2 +/- 0.3 | 8.3 | 8.6 | 10.0 | 0.90±0.2 | 3.1 |
| 10 | 10.2 +/- 0.3 | 10.3 | 10.6 | 12.0 | 0.90±0.2 | 4.6 |

ATB

+105°C, Low Impedance, up to 5000 hours

| WVDC | Capacitance (µF) | IC PART NUMBER | Impedance Ω +20°C, 100kHz | Maximum RMS Ripple Current (mA) 100 kHz, +105°C | Dims DxL (mm) |
|------|------------------|----------------|---------------------------|---|---------------|
| 6.3 | 22 | ATB226M6R3 | 1.93 | 90 | 4x5.4 |
| 6.3 | 33 | ATB336M6R3 | 1.93 | 90 | 4x5.4 |
| 6.3 | 47 | ATB476M6R3 | 1 | 160 | 5x5.4 |
| 6.3 | 100 | ATB107M6R3 | 0.52 | 240 | 6.3x5.4 |
| 6.3 | 150 | ATB157M6R3 | 0.3 | 240 | 6.3x7.7 |
| 6.3 | 220 | ATB227M6R3 | 0.3 | 240 | 6.3x7.7 |
| 6.3 | 330 | ATB337M6R3 | 0.16 | 600 | 8x10.2 |
| 6.3 | 470 | ATB477M6R3 | 0.16 | 600 | 8x10.2 |
| 6.3 | 680 | ATB687M6R3 | 0.12 | 850 | 10x10.2 |
| 6.3 | 1000 | ATB108M6R3 | 0.12 | 850 | 10x10.2 |
| 10 | 22 | ATB226M010 | 1.93 | 90 | 4x5.4 |
| 10 | 33 | ATB336M010 | 1 | 160 | 5x5.4 |
| 10 | 47 | ATB476M010 | 0.52 | 190 | 6.3x5.4 |
| 10 | 100 | ATB107M010 | 0.52 | 190 | 6.3x5.4 |
| 10 | 150 | ATB157M010 | 0.34 | 240 | 6.3x7.7 |
| 10 | 220 | ATB227M010 | 0.16 | 600 | 8x10.2 |
| 10 | 330 | ATB337M010 | 0.16 | 600 | 8x10.2 |
| 10 | 470 | ATB477M010 | 0.12 | 850 | 10x10.2 |
| 10 | 680 | ATB687M010 | 0.12 | 850 | 10x10.2 |
| 10 | 1000 | ATB108M010 | 0.12 | 850 | 10x10.2 |
| 16 | 10 | ATB106M016 | 1.93 | 90 | 4x5.4 |
| 16 | 22 | ATB226M016 | 1 | 160 | 5x5.4 |
| 16 | 33 | ATB336M016 | 0.52 | 240 | 6.3x5.4 |
| 16 | 47 | ATB476M016 | 0.52 | 240 | 6.3x5.4 |
| 16 | 100 | ATB107M016 | 0.34 | 280 | 6.3x7.7 |
| 16 | 150 | ATB157M016 | 0.22 | 370 | 8x10.2 |
| 16 | 220 | ATB227M016 | 0.22 | 370 | 8x10.2 |
| 16 | 330 | ATB337M016 | 0.16 | 600 | 8x10.2 |
| 16 | 470 | ATB477M016 | 0.12 | 850 | 10x10.2 |
| 16 | 680 | ATB687M016 | 0.12 | 850 | 10x10.2 |
| 25 | 10 | ATB106M025 | 1.93 | 90 | 4x5.4 |

| WVDC | Capacitance (µF) | IC PART NUMBER | Impedance Ω +20°C, 100kHz | Maximum RMS Ripple Current (mA) 100 kHz, +105°C | Dims DxL (mm) |
|------|------------------|----------------|---------------------------|---|---------------|
| 25 | 22 | ATB226M025 | 1 | 160 | 5x5.4 |
| 25 | 33 | ATB336M025 | 0.52 | 240 | 6.3x5.4 |
| 25 | 47 | ATB476M025 | 0.52 | 240 | 6.3x5.4 |
| 25 | 68 | ATB686M025 | 0.34 | 280 | 6.3x7.7 |
| 25 | 100 | ATB107M025 | 0.34 | 300 | 6.3x7.7 |
| 25 | 150 | ATB157M025 | 0.16 | 600 | 8x10.2 |
| 25 | 220 | ATB227M025 | 0.16 | 600 | 8x10.2 |
| 25 | 330 | ATB337M025 | 0.16 | 850 | 10x10.2 |
| 25 | 470 | ATB477M025 | 0.12 | 850 | 10x10.2 |
| 35 | 4.7 | ATB475M035 | 1.93 | 90 | 4x5.4 |
| 35 | 10 | ATB106M035 | 1 | 160 | 5x5.4 |
| 35 | 22 | ATB226M035 | 1 | 160 | 5x5.4 |
| 35 | 33 | ATB336M035 | 0.52 | 240 | 6.3x5.4 |
| 35 | 47 | ATB476M035 | 0.34 | 280 | 6.3x7.7 |
| 35 | 68 | ATB686M035 | 0.34 | 280 | 6.3x7.7 |
| 35 | 100 | ATB107M035 | 0.16 | 600 | 8x10.2 |
| 35 | 150 | ATB157M035 | 0.12 | 850 | 10x10.2 |
| 35 | 220 | ATB227M035 | 0.12 | 850 | 10x10.2 |
| 35 | 330 | ATB337M035 | 0.12 | 850 | 10x10.2 |
| 50 | 1 | ATB105M050 | 5 | 60 | 4x5.4 |
| 50 | 2.2 | ATB225M050 | 5 | 60 | 4x5.4 |
| 50 | 3.3 | ATB335M050 | 5 | 60 | 4x5.4 |
| 50 | 4.7 | ATB475M050 | 4 | 95 | 5x5.4 |
| 50 | 10 | ATB106M050 | 2.6 | 140 | 6.3x5.4 |
| 50 | 22 | ATB226M050 | 1.3 | 230 | 6.3x7.7 |
| 50 | 33 | ATB336M050 | 0.5 | 350 | 8x10.2 |
| 50 | 47 | ATB476M050 | 0.34 | 670 | 10x10.2 |
| 50 | 68 | ATB686M050 | 0.34 | 670 | 10x10.2 |
| 50 | 100 | ATB107M050 | 0.34 | 670 | 10x10.2 |
| 50 | 150 | ATB157M050 | 0.34 | 670 | 10x10.2 |
| 50 | 220 | ATB227M050 | 0.34 | 670 | 10x10.2 |

Mouser Electronics

Authorized Distributor

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Cornell Dubilier:

[ATB107M050](#) [ATB337M035](#) [ATB687M016](#) [ATB106M025](#) [ATB476M035](#) [ATB476M050](#) [ATB227M025](#)
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