

Aluminum Electrolytic Capacitors

+ 105°C Low Impedance, Low Profile Surface Mount Chip

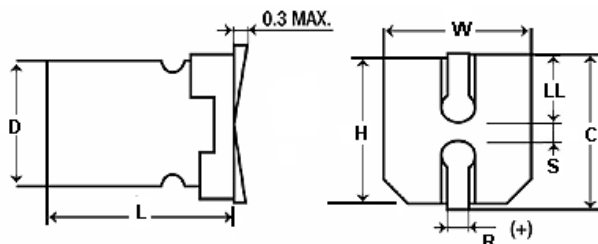
FEATURES

Small size – Long Life – Very 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 | | 6.3 | 10 | 16 | 25 | 35 | 50 | |
| | | .22 | .2 | .16 | .14 | .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 | 5 | 4 | 4 | 3 | 3 | 3 | |
| Load Life | | 1000 hours at 105°C with rated WVDC applied | | | | | | |
| | | Capacitance Change | | ≤25% of initial measured value | | | | |
| | | Dissipation Factor | | ≤200% of maximum specified value | | | | |
| | | Leakage Current | | ≤100% of maximum specified value | | | | |
| Shelf Life | | 1000 hours at 85°C with no voltage applied | | | | | | |
| | | Capacitance Change | | ≤25% of initial measured value | | | | |
| | | Dissipation Factor | | ≤200% of maximum specified value | | | | |
| | | Leakage Current | | ≤100% of maximum 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 | | | | |
| | | 50 | 120 | 1k | 100k | 105 | 85 | 65 |
| | | .47 | .5 | .83 | 1.0 | 1.0 | 1.0 | 1.0 |

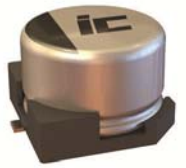


| D | L | W±0.2 | H±0.2 | C±0.2 | R | LL±0.2 | S±0.2 |
|-----|---------------|-------|-------|-------|---------|--------|-------|
| 4 | 5.4 +0.1/-0.2 | 4.3 | 4.3 | 5.0 | 0.5-0.8 | 1.8 | 1.0 |
| 5 | 5.4 +0.1/-0.2 | 5.3 | 5.3 | 6.0 | 0.5-0.8 | 2.1 | 1.4 |
| 6.3 | 5.4 +0.1/-0.2 | 6.6 | 6.6 | 7.3 | 0.5-0.8 | 2.4 | 2.2 |
| 6.3 | 5.8 +0.1/-0.2 | 6.6 | 6.6 | 7.3 | 0.5-0.8 | 2.4 | 2.2 |

GAZ

Aluminum Electrolytic Capacitors

+ 105°C Low Impedance, Low Profile Surface Mount Chip



| Cap (uF) | VDC | PART # | Maximum ESR Ω 120Hz 20°C | Maximum Impedance Ω 100kHz 20°C | Maximum RMS ripple current (mA) 100kHz, 105°C | Dims DxL (mm) |
|----------|-----|------------|---------------------------------|--|---|---------------|
| 1 | 35 | 105GAZ035M | 198.944 | 60 | 3.9 | 4x5.4 |
| 1 | 50 | 105GAZ050M | 198.944 | 30 | 4.9 | 4x5.4 |
| 2.2 | 35 | 225GAZ035M | 90.429 | 60 | 3.6 | 4x5.4 |
| 2.2 | 50 | 225GAZ050M | 90.429 | 30 | 4.5 | 4x5.4 |
| 3.3 | 50 | 335GAZ050M | 60.286 | 30 | 3.7 | 4x5.4 |
| 3.3 | 35 | 335GAZ035M | 60.286 | 60 | 3 | 4x5.4 |
| 4.7 | 35 | 475GAZ035M | 42.328 | 60 | 2.5 | 4x5.4 |
| 4.7 | 50 | 475GAZ050M | 42.328 | 41 | 3.1 | 5x5.4 |
| 6.8 | 25 | 685GAZ025M | 34.132 | 60 | 2.7 | 4x5.4 |
| 6.8 | 35 | 685GAZ035M | 29.256 | 60 | 2.2 | 5x5.4 |
| 6.8 | 50 | 685GAZ050M | 29.256 | 55 | 2.7 | 6.3x5.4 |
| 10 | 16 | 106GAZ016M | 26.526 | 60 | 3.3 | 4x5.4 |
| 10 | 35 | 106GAZ035M | 19.894 | 70 | 1.9 | 5x5.4 |
| 10 | 50 | 106GAZ050M | 19.894 | 70 | 2.4 | 6.3x5.4 |
| 22 | 6.3 | 226GAZ6R3M | 18.086 | 60 | 3.2 | 4x5.4 |
| 22 | 16 | 226GAZ016M | 12.057 | 85 | 1.8 | 5x5.4 |
| 22 | 35 | 226GAZ035M | 9.043 | 120 | 1 | 6.3x5.4 |
| 33 | 10 | 336GAZ010M | 10.048 | 75 | 1.7 | 5x5.4 |
| 33 | 25 | 336GAZ025M | 7.033 | 140 | 1 | 6.3x5.4 |
| 47 | 6.3 | 476GAZ6R3M | 8.466 | 80 | 2 | 5x5.4 |
| 47 | 16 | 476GAZ016M | 5.644 | 140 | 1.1 | 6.3x5.4 |
| 68 | 10 | 686GAZ010M | 4.876 | 130 | 1.1 | 6.3x5.4 |

ic ILLINOIS CAPACITOR

Your Global Source for World-Class Capacitors

©2013 Illinois Capacitor, Inc.

North America

Tel: 847.675.1760

sales@illcap.com

Asia

Tel: 852.2793 0931

sales@illcap.com.hk