# CAFAA

for defense

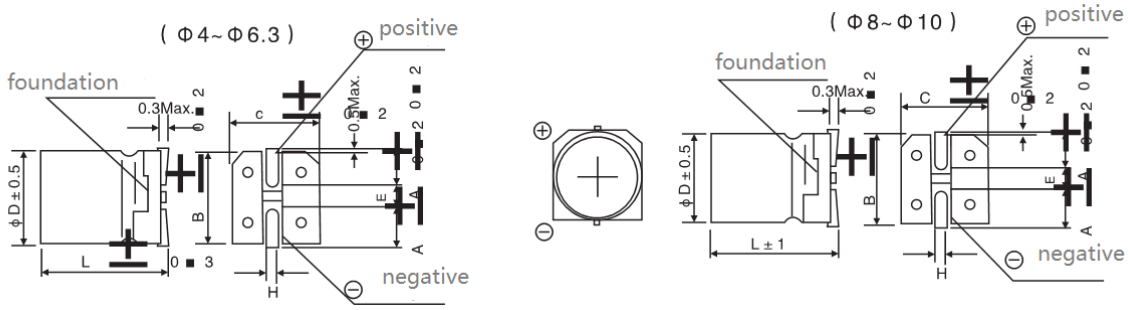

- There are reliability indicators, and the five-level failure rate ($\lambda \leq 1\times10^{-5}$).
- Suitable for reflow soldering and high-density installations of small, low-profile equipment
- It meets the environmental requirements of vibration, low pressure, humidity resistance and other environmental requirements of the national military standard GJB603-88
- It is suitable for filtering, coupling and bypassing in electronic circuits in aerospace, aviation, alpine, high altitude and ocean

■ Main technical parameters:

| Item | characteristic |
|---|---|
| Operating temperature range | -55℃~+105℃ |
| Rated voltage range | 6.3V~50V |
| Nominal capacitance range | 0.1μF~1500μF |
| Allowable deviation of nominal capacitance (25 ℃, 120Hz) | M（±20%） |
| DC leakage current（25℃，5min） | I≤0.01$C_R U_R$ or 3 μ A (whichever is greater)<br>CR：Nominal capacitance（μF）；UR：Rated voltage（V） |
| DF tgδ（25℃，120Hz） | Rated Voltage (V) 6.3 / 10 / 16 / 25 / 35 / 50<br>tgδ（≤） 0.30 / 0.24 / 0.20 / 0.16 / 0.14 / 0.14 |
| Temperature characteristics (capacitance rate of change, 120 Hz) | （$C_{+25℃}-C_{-55℃}$）/$C_{+25℃}$≤40% |
| Durability (High Temperature Test) | The rated voltage with ripple current is applied at 105 ℃ for 2000h, and after recovery for 24h, the test is carried out at room temperature (25 ℃±5 ℃), and its electrical performance conforms to:<br>Rate of change in capacitance: ≤± 30% of the initial measurement<br>DF tgδ: ≤ 200% of the initial specified value<br>DC leakage current: ≤ initial prescriptive value |
| Store at high temperatures | After storage at 105 ℃ for 500 hours, recovery for 24 hours, return to room temperature (25 ℃±5 ℃) test, its electrical performance conforms to:<br>Rate of change in capacitance: ≤± 20% of the initial measurement<br>DF tgδ: ≤ 200% of the initial specified value<br>DC leakage current: ≤ 200% of the initial specified value |

Execution standard number：Q/MN30000-2007　　GJB603-88

■ Outline drawing and size table (mm)




| D×L | 4×5.8 | 6.3×5.8 | 6.3×7.7 | 8×10 | 10×10 |
|---|---|---|---|---|---|
| D | 4.0 | 6.3 | 6.3 | 8.0 | 10.0 |
| A | 1.8 | 2.4 | 2.4 | 2.9 | 3.2 |
| B | 4.3 | 6.6 | 6.6 | 8.3 | 10.3 |
| C | 4.3 | 6.6 | 6.6 | 8.3 | 10.3 |
| E | 1.0 | 2.2 | 2.2 | 3.1 | 4.5 |
| L | 5.8 | 5.8 | 7.7 | 10.0 | 10.0 |
| H | 0.5~0.8 | | | 0.8~1.1 | |

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■ List of product specifications and technical parameters

| Rated voltage(UR)V | 6.3 0J | 10 1A | 16 1C | 25 1E | 35 1V | 50 1H |
|---|---|---|---|---|---|---|
| Nominal capacitance (Cn) μF | D×L(mm) | | | | | |
| 0.1 | | | | | | 4×5.8 |
| 0.22 | | | | | | 4×5.8 |
| 0.33 | | | | | | 4×5.8 |
| 0.47 | | | | | | 4×5.8 |
| 1.0 | | | | | | 4×5.8 |
| 2.2 | | | | | 4×5.8 | 4×5.8 |
| 3.3 | | | | | 4×5.8 | 4×5.8 |
| 4.7 | | | | | 4×5.8 | 6.3×5.8 |
| 10 | | | | | 6.3×5.8 | 6.3×5.8 |
| 22 | | | | 6.3×5.8 | 6.3×5.8 | 6.3×7.7 |
| 33 | | | 6.3×5.8 | 6.3×5.8 | 6.3×7.7 | 6.3×7.7 |
| 47 | | 6.3×5.8 | 6.3×5.8 | 6.3×7.7 | 6.3×7.7 | 6.3×7.7 |
| 100 | 6.3×5.8 | 6.3×5.8 | 6.3×5.8 | 6.3×7.7 | 6.3×7.7 | 8×10 |
| 150 | 6.3×7.7 | 6.3×7.7 | 6.3×7.7 | 6.3×7.7 | 8×10 | 10×10 |
| 220 | 6.3×7.7 | 6.3×7.7 | 6.3×7.7 | 8×10 | 8×10 | 10×10 |
| 330 | 6.3×7.7 | 8×10 | 8×10 | 8×10 | 10×10 | |
| 470 | 8×10 | 8×10 | 8×10 | 10×10 | | |
| 680 | 8×10 | 10×10 | 10×10 | | | |
| 1000 | 8×10 | 10×10 | | | | |
| 1500 | 10×10 | | | | | |

**Part number examps**

| CAFAA | 158 | M | 0J | T | 100100 |
|---|---|---|---|---|---|
| series | capacitance | tolerance | voltage | package | dimension |