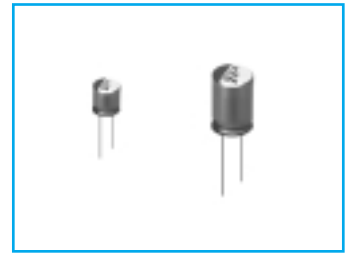


FA Lead type, With Conducting Polymer Series

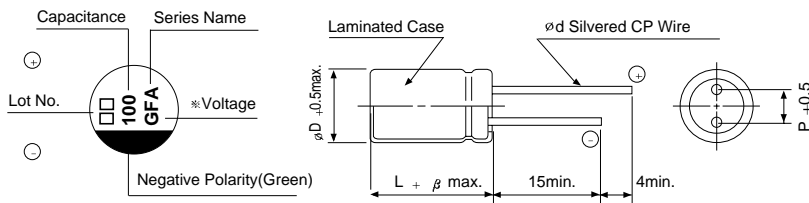
- Applied new conducting polymer of high conductivity
- Low ESR, high ripple current
- Excellent noise-absorbent characteristics
- Designed for use in smoothing circuit of power supplies

Hi-CAP



| Item | Characteristics | |
|--|--|-----------------------------------|
| Operating temperature range | -55 ~ +105°C | |
| Leakage current max. | I = 0.2CV (after 2 minutes) | |
| Capacitance tolerance | ±20% at 120Hz, 20°C | |
| Dissipation factor max. | ≤ 0.12 at 120Hz, 20°C | |
| ESR | Not more than the values in dimensions table | |
| Temperature characteristics (Impedance ratio at 100kHz) | Z-55°C / Z+20°C | Z+105°C / Z+20°C |
| | 1.0~1.25 | 0.75~1.0 |
| Load life (after application of the rated voltage for 2000 hours at 105°C) | Leakage current | Less than specified value |
| | Capacitance change | Within ±20% of initial value |
| | tanδ | Less than 150% of specified value |

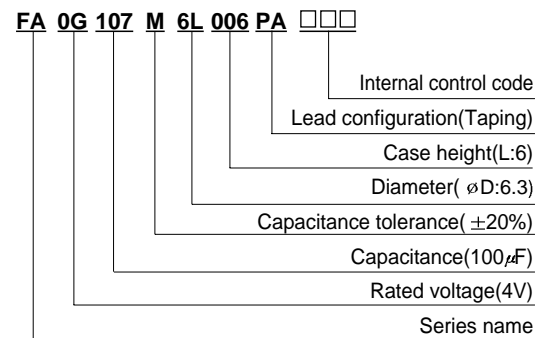
● DRAWING (Unit : mm)



| ※ Voltage | 4 | 6.3 | 10 | 16 |
|-----------|---|-----|----|----|
| Code | G | J | A | C |

| Size | φD | L | P | φd | β |
|---------|------|-----|-----|------|-----|
| 6.3 × 6 | 6.3 | 5.9 | 2.5 | 0.45 | 1.0 |
| 8 × 7 | 8.0 | 6.9 | 3.5 | 0.60 | |
| 10 × 8 | 10.0 | 7.9 | 5.0 | 0.60 | 1.5 |
| 10 × 10 | 10.0 | 9.9 | 5.0 | 0.60 | |

● PART NUMBER SYSTEM (Example : 4V 100μF)



● DIMENSIONS & MAXIMUM PERMISSIBLE RIPPLE CURRENT

| μF | WV | 4 | | | 6.3 | | | 10 | | | 16 | | |
|-----|----|---------|----------|-------------|---------|----------|-------------|---------|----------|-------------|---------|----------|-------------|
| | | φD × L | ESR (mΩ) | IR (mA rms) | φD × L | ESR (mΩ) | IR (mA rms) | φD × L | ESR (mΩ) | IR (mA rms) | φD × L | ESR (mΩ) | IR (mA rms) |
| 27 | | | | | | | | | | | 6.3 × 6 | 65 | 1390 |
| 39 | | | | | | | | | | | 6.3 × 6 | 65 | 1390 |
| 47 | | | | | | | 6.3 × 6 | 60 | 1450 | | 6.3 × 6 | 65 | 1390 |
| 56 | | | | | 6.3 × 6 | 55 | 1510 | 6.3 × 6 | 55 | 1510 | 8 × 7 | 50 | 1800 |
| 82 | | 6.3 × 6 | 50 | 1570 | 6.3 × 6 | 50 | 1570 | 8 × 7 | 45 | 1890 | 8 × 7 | 45 | 1890 |
| 100 | | 6.3 × 6 | 50 | 1620 | 6.3 × 6 | 50 | 1620 | 8 × 7 | 45 | 1890 | 10 × 8 | 40 | 2400 |
| 120 | | 6.3 × 6 | 50 | 1620 | 8 × 7 | 40 | 2120 | 8 × 7 | 40 | 2120 | 10 × 8 | 40 | 2400 |
| 150 | | 6.3 × 6 | 50 | 1620 | 8 × 7 | 35 | 2350 | 8 × 7 | 40 | 2350 | 10 × 8 | 35 | 2670 |
| 220 | | 8 × 7 | 35 | 2560 | 10 × 8 | 30 | 3020 | 10 × 8 | 35 | 2670 | 10 × 10 | 20 | 4200 |
| 270 | | 8 × 7 | 35 | 2560 | 10 × 8 | 30 | 3020 | 10 × 8 | 30 | 3020 | | | |
| 330 | | 8 × 7 | 35 | 2560 | 10 × 8 | 25 | 3300 | 10 × 8 | 30 | 3020 | | | |
| 470 | | 10 × 8 | 25 | 3700 | 10 × 8 | 25 | 3700 | 10 × 10 | 18 | 4400 | | | |
| 560 | | 10 × 8 | 25 | 3700 | 10 × 10 | 16 | 4700 | | | | | | |
| 820 | | 10 × 10 | 13 | 5200 | | | | | | | | | |

↑ Ripple current (mA rms) at 105°C, 100kHz
 ↑ ESR (mΩ) max. at 20°C, 100kHz
 ↑ Case size φD × L(mm)

CONDUCTING POLYMER ALUMINUM ELECTROLYTIC CAPACITORS

FA Chip type, With Conducting Polymer Series

- Low ESR, high ripple current
- Designed for surface mounting on high density PC board
- Load life for 2000 hours at 105°C

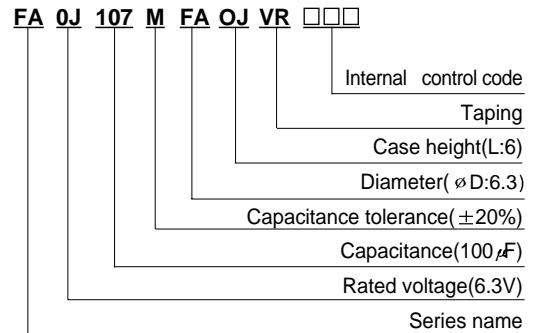
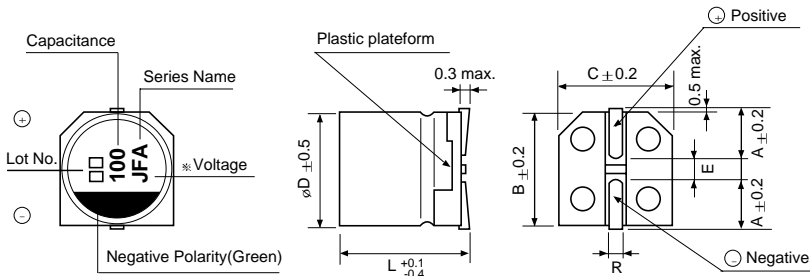
Hi-CAP



| Item | Characteristics | |
|---|---|-----------------------------------|
| Operating temperature range | -55 ~ +105°C | |
| Leakage current max. | I = 0.2CV (after 2 minutes) | |
| Capacitance tolerance | ±20% at 120Hz, 20°C | |
| Dissipation factor max. | ≤0.12 at 120Hz, 20°C | |
| ESR | Not more than the values in dimensions table | |
| Load life (after application of the rated voltage for 2000 hours at 105°C) | Leakage current | Less than specified value |
| | Capacitance change | Within ±20% of initial value |
| | tanδ | Less than 150% of specified value |
| Resistance to soldering heat | To comply with recommended conditions for reflow soldering. Peak temp. : 240°C, 220°C, 40sec. Cycle : 2cycles Temperature shall be set at that of the capacitor terminal as a standard. | |
| | Leakage current | Less than specified value |
| | Capacitance change | Within ±10% of initial value |
| | tanδ | Less than 130% of specified value |

● DRAWING (Unit : mm)

● PART NUMBER SYSTEM (Example : 6.3V 100μF)



| | | | | |
|-----------|---|-----|----|----|
| ※ Voltage | 4 | 6.3 | 10 | 16 |
| Code | G | J | A | C |

| Size | φD | L | A | B | C | E | R |
|---------|------|-----|-----|------|------|-----|---------|
| 6.3 × 6 | 6.3 | 5.9 | 2.4 | 6.6 | 6.6 | 2.2 | 0.5~0.8 |
| 8 × 7 | 8.0 | 6.9 | 3.3 | 8.3 | 8.3 | 3.1 | 0.8~1.1 |
| 10 × 8 | 10.0 | 7.9 | 3.2 | 10.3 | 10.3 | 4.5 | 0.8~1.1 |

● DIMENSIONS & MAXIMUM PERMISSIBLE RIPPLE CURRENT

| μF | WV | 4 | | | 6.3 | | | 10 | | | 16 | | |
|-----|----|---------|----|--------|---------|----|--------|---------|----|--------|---------|----|--------|
| | | φD | L | Ripple | φD | L | Ripple | φD | L | Ripple | φD | L | Ripple |
| 27 | | | | | | | | | | | 6.3 × 6 | 65 | 1390 |
| 39 | | | | | | | | | | | 6.3 × 6 | 65 | 1390 |
| 47 | | | | | | | | 6.3 × 6 | 60 | 1450 | 6.3 × 6 | 65 | 1390 |
| 56 | | | | | 6.3 × 6 | 55 | 1510 | 6.3 × 6 | 55 | 1510 | 8 × 7 | 50 | 1800 |
| 82 | | 6.3 × 6 | 50 | 1570 | 6.3 × 6 | 50 | 1570 | 6.3 × 7 | 45 | 1890 | 8 × 7 | 45 | 1890 |
| 100 | | 6.3 × 6 | 50 | 1620 | 6.3 × 6 | 50 | 1620 | 8 × 7 | 45 | 1890 | 10 × 8 | 40 | 2400 |
| 120 | | 6.3 × 6 | 50 | 1620 | 8 × 7 | 40 | 2120 | 8 × 7 | 40 | 2120 | 10 × 8 | 40 | 2400 |
| 150 | | 6.3 × 6 | 50 | 1620 | 8 × 7 | 35 | 2350 | 8 × 7 | 40 | 2350 | 10 × 8 | 35 | 2670 |
| 220 | | 8 × 7 | 35 | 2560 | 10 × 8 | 30 | 3020 | 8 × 8 | 35 | 2670 | | | |
| 270 | | 8 × 7 | 35 | 2560 | 10 × 8 | 30 | 3020 | 10 × 8 | 30 | 3020 | | | |
| 330 | | 8 × 7 | 35 | 2560 | 10 × 8 | 25 | 3300 | | | | | | |
| 470 | | 10 × 8 | 25 | 3700 | | | | | | | | | |

↑ Ripple current (mA rms) at 105°C, 100kHz
 ↑ ESR (mΩ) max. at 20°C, 100kHz
 ↑ Case size φD × L(mm)