

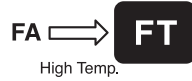
CONDUCTIVE POLYMER ALUMINUM ELECTROLYTIC CAPACITORS

FT Chip type, Guaranteed at 125°C Series

Hi-CAP



- The FT Series is very reliable, guaranteeing performance
- Suitable for use in smoothing circuits of vehicle-mounted equipment, industrial equipment, etc
- Complied to the RoHS directive

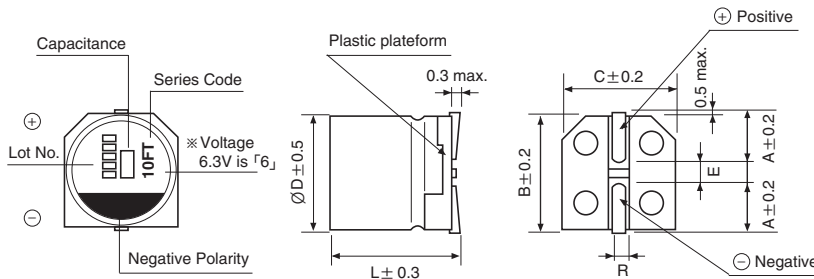


| Item | Characteristics | |
|------------------------------------------------------------------------------|-------------------------------------------|-----------------------------------|
| Operating temperature range | -55 ~ +125°C | |
| Leakage current max.* | Less than or equal to the value of Table1 | |
| Capacitance tolerance | ±20% at 120Hz, 20°C | |
| Dissipation factor max. | Less than or equal to the value of Table1 | |
| ESR | Less than or equal to the value of Table1 | |
| Temperature characteristics (Impedance ratio at 100kHz) | Z-55°C / Z+20°C | Z+125°C / Z+20°C |
| | 0.75 ~ 1.25 | 0.75 ~ 1.25 |
| Load life (after application of the rated voltage for 2000 hours at 125°C) | Leakage current | Less than specified value |
| | Capacitance change | Within ±20% of initial value |
| | ESR | Less than 200% of specified value |
| | tanδ | Less than 200% of specified value |
| Resistance to soldering heat (Refer to Page 37 for soldering recommendation) | Leakage current | Less than specified value |
| | Capacitance change | Within ±10% of initial value |
| | tanδ | Less than 130% of specified value |
| | | |

* In case of some problems for measured values, measure after applying rated voltage for 120 minutes at 125°C.

● DRAWING

Unit : mm



● PART NUMBER SYSTEM (See Page 52)

| Size | ØD | L | B | C | E | A | R |
|---------|-----|------|------|------|-----|------|---------|
| 6.3×5.9 | 6.3 | 5.9 | 6.6 | 6.6 | 2.2 | 2.45 | 0.5~0.8 |
| 8×6.9 | 8 | 6.9 | 8.3 | 8.3 | 3.2 | 2.9 | 0.5~0.8 |
| 8×11.9 | 8 | 11.9 | 8.3 | 8.3 | 3.2 | 2.9 | 0.8~1.1 |
| 10×7.9 | 10 | 7.9 | 10.3 | 10.3 | 4.6 | 3.2 | 0.8~1.1 |
| 10×12.6 | 10 | 12.6 | 10.3 | 10.3 | 4.6 | 3.2 | 0.8~1.1 |

● Table 1. FT(SMD type) Series Characteristics List

| WV | µF | ØD (mm) | L(mm) | ESR(mΩ)max. 100~300kHz | Ripple current (100kHz)(mA rms) 105°C < T ≤ 125°C | Ripple current (100kHz)(mA rms) T ≤ 105°C | Dissipation factor 120Hz | Leakage Current (µA)(max.) after 2 minutes |
|----|-----|---------|-------|------------------------|---------------------------------------------------|-------------------------------------------|--------------------------|--------------------------------------------|
| 10 | 56 | 6.3 | 5.9 | 45 | 538 | 1700 | 0.12 | 112 |
| 16 | 82 | 8 | 6.9 | 40 | 670 | 2120 | 0.12 | 262 |
| 25 | 10 | 6.3 | 5.9 | 65 | 474 | 1500 | 0.10 | 50 |
| 25 | 22 | 8 | 6.9 | 48 | 580 | 1835 | 0.10 | 110 |
| 25 | 39 | 10 | 7.9 | 45 | 664 | 2100 | 0.10 | 195 |
| 25 | 47 | 8 | 11.9 | 30 | 943 | 2980 | 0.12 | 235 |
| 25 | 82 | 10 | 12.6 | 28 | 1202 | 3800 | 0.12 | 410 |
| 35 | 8.2 | 8 | 6.9 | 70 | 400 | 1300 | 0.10 | 57 |
| 35 | 18 | 10 | 7.9 | 60 | 550 | 1800 | 0.10 | 126 |
| 35 | 22 | 8 | 11.9 | 50 | 700 | 2300 | 0.12 | 154 |
| 35 | 47 | 10 | 12.6 | 30 | 1150 | 3650 | 0.12 | 329 |

● FREQUENCY COEFFICIENT OF PERMISSIBLE RIPPLE CURRENT

| Frequency | 120Hz | 1kHz | 10kHz | 100~500kHz |
|-------------|-------|------|-------|------------|
| Coefficient | 0.05 | 0.3 | 0.7 | 1 |