

■ Conforming to environment

We encourage activities for protecting global environment. All our products are lead-free. The sleeve material is PET or sleeve-less(FEF). Please contact us if details are required.

■ Environmental Products (Compliance of RoHS Directive)

| Type code | Surface Mount Type Aluminum Electrolytic Capacitors | | Radial Lead Type Aluminum Electrolytic Capacitors | |
|---|--|---------------------------------------|--|---------------------------------------|
| | CE, HV, FV ★ ¹ | CE_T | ME | HE_T, FE_T |
| Cross section of lead wire (Kind of plating) | ($\phi 4$ to $\phi 12.5$) | ($\phi 16, \phi 18$) | | |
| | Part number (example) | 16CE100LX (100 μ F / 16V) | 10CE4700LXT (4700 μ F / 10V) | 10ME100AX (100 μ F / 10V) |
| Sleeve | Not used | Not used | PET | Not used |
| Moisture Sensitivity Level(MSL)★ ² | Not applicable No need dry package | Not applicable No need dry package | Not applicable No need dry package | Not applicable No need dry package |

★¹ Sn plating lead-wire for Surface Mount Type : "CE_T", "HV_T", "FV_T"

★² Conforming to IPC/JEDEC J-STD-020

■ Conforming to RoHS

The capacitors do not intentionally contain the banned substances (Cd, Pb, Hg, Cr(VI), PBB, PBDE, DEHP, BBP, DBP, DIBP) listed in "RoHS directive : (EU) 2015/863" and its concentration is less than the threshold values.

■ Conforming to European REACH Regulation.

Our products are "articles without any intended releas" based or RIP3.8TGD published on 26 May 2008. They are not applicable for "Registration" for European REACH Regulation Article 7 (1).

■ Intellectual Property Rights

We proactively work on protecting the intellectual property rights of our products.

Examples of the patents related to our aluminum electrolytic capacitors with hybrid conductive polymer(**EP-cap**).

JP. Pat. No.4911509, JP. Pat. No.4916416, JP. Pat. No.5305569, JP. Pat. No.6442162, JP. Pat. No.6899072

JP. Pat. No.7396695, JP. Pat. No.7465575

US. Pat. No.7497879, US. Pat. No.7859829, US. Pat. No.7872858, US. Pat. 11380493, US. Pat. 11990286

CN. Pat. No.ZL200710109529.7, CN. Pat. No.ZL200810125826.5, CN. Pat. No.ZL200810136119.6

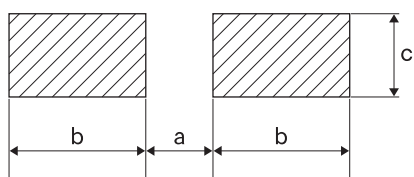
CN. Pat. No.ZL201880097841.5, CN. Pat. No.ZL202080064325.X, CN. Pat. No.ZL202080097732.0

CN. Pat. No.ZL201980100340.2

■ Surface Mount Type Recommended Land Pattern

● Land pattern

(Unit:mm)



| Size | a | b | c |
|-------------|-----|-----|-----|
| $\phi 4$ | 1.0 | 2.6 | 1.8 |
| $\phi 5$ | 1.4 | 3.0 | 1.8 |
| $\phi 6.3$ | 1.8 | 3.6 | 1.8 |
| $\phi 8$ | 2.8 | 4.1 | 2.1 |
| $\phi 10$ | 4.3 | 4.4 | 2.5 |
| $\phi 12.5$ | 4.3 | 5.8 | 2.5 |
| $\phi 16$ | 6.6 | 6.5 | 5.0 |
| $\phi 18$ | 6.6 | 7.7 | 5.0 |

(1) Please refer to page 17-18 for S.M.T Recommended Land Pattern of Anti-vibration Structure(CA Type, HA Type, HC Type, FA Type, FC Type).