Surface Mount Type
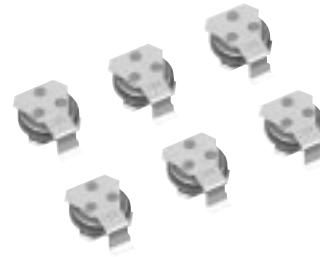
Series: **EP**

■ Features
● Miniaturized : Dia3.8 × height 1.5 mm max.
● Reflow soldering method available (260 °C)
● RoHS directive compliant

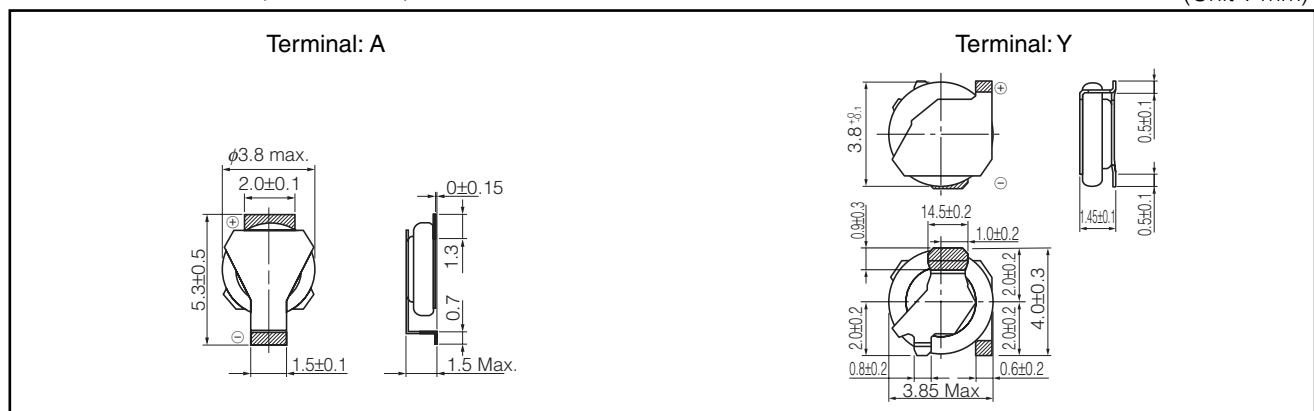### ■ Recommended Applications
● Mobile phones, PDAs
● RTC backup

■ Specifications

Category Temp. Range		−10 °C to +60 °C		
Maximum Operating Voltage		2.6 V DC		3.3 V DC
Nominal capacitance		0.033 F		
Characteristics at Low Temperature	Capacitance change	±30 % of initial measured value at 20 °C (at −10°C)		
	Internal resistance	≦10 times of initial measured value at 20 °C (at −10°C)		
Endurance		After 500 hours application of 2.6 V at +60 °C	After 250 hours application of 3.3 V at +60 °C	
	Capacitance change	±30 % of initial measured value at 20 °C	Capacitance change	±30 % of initial measured value at 20 °C
	Internal resistance	2 kΩ or less	Internal resistance	4 kΩ or less
Shelf Life		After 500 hours strage at +60 °C without load (voltage)		
	Capacitance change	±30 % of initial measured value at 20 °C		
	Internal resistance	1 kΩ or less		

■ Dimensions in mm(not to scale)

(Unit : mm)

Terminal: A

φ3.8 max.
2.0±0.1
5.3±0.5
0±0.15
1.3
0.7
1.5±0.1
1.5 Max.

Terminal: Y

3.8$^{-0}_{-1}$
0.9±0.3
14.5±0.2
1.0±0.2
2.0±0.2
2.0±0.2
2.0±0.3
4.0±0.3
0.8±0.2
0.6±0.2
3.85 Max
0.5±0.1
1.45±0.1
0.5±0.1

■ Standard Products

Maximum Operating Voltage (V.DC)	Capacitance (F)	Capacitance tolerance	Internal resistance (Initial specified value) (Ω) at 1 kHz	Maximum discharging current (µA)	Part number	Mass (g)	Min. Packaging Q'ty (pcs)
2.6	0.033	− 20% to +80%	≦350	5	EECEP0E333( )	0.06	4000
3.3					EECEP0F333( )		

( ) Please use A or Y, to indicate the terminal style.
The re-flow condition / taping dimensions are explained on EE210, EE211 of our catalog.
Note : 1. Do not use reflow soldering when cell voltage is above 0.3 V.
　　　 2. When the capacitor is being used in a high temperature and high humidity environment for a long period, and will not affect any electrical characteristics of the capacitor.
　　　 3: EP series is a small capacitor that developed for the RTC backup of cellular phone. Therefore, there is a possibility that it will not be able to back up in short term depend on using condition. Please contact us before you use it