



Features

- Pb free re-flow soldering method available (260°C peak)
- Uses the Environment-friendly material
- High reliability and wide voltage range(0~3.3V)
- Small size and high quality
- Charge/discharge cycle of above 10,000

Applications

- Back-up for memory and clock function of cellular phone, PDA, MP3, digital still camera, cordless phone etc

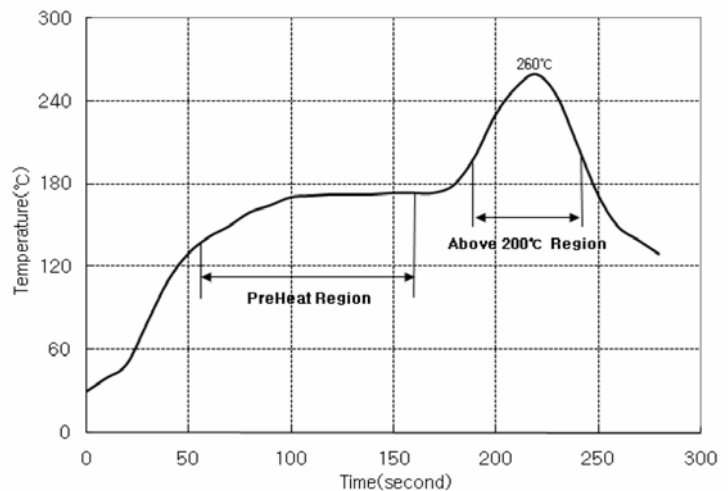
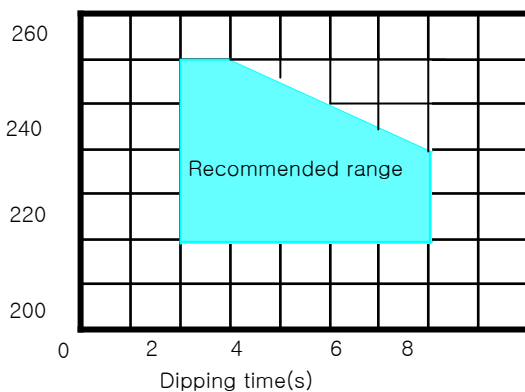
Specifications

| Item | Performance Characteristics | |
|--------------------------------|--|---|
| Operating temperature range | -10°C ~ +60°C | |
| Rated working voltage | 3.3V. DC | |
| Nominal capacitance | 0.07F | |
| Capacitance tolerance | -20 to + 80% | |
| Capacitance at low temperature | Capacitance change | ±30% of initial measured value at +20°C (-10°C) |
| | Internal resistance | ≤ 10 times of initial measured at +20°C (-10°C) |
| Endurance | After 500 hours application of 3.3V. DC at +60°C , The capacitor shall meet the following limits. | |
| | Capacitance change | ±30% of initial measured |
| | Internal resistance | 1k ohm or less |
| Self life | After 1000 hours storage at of +60°C without load, the capacitor shall meet the specified limits for endurance | |
| Moisture resistance | After 500 hours storage at +40°C, 90 to 95% R.H., the capacitor shall meet the specified limits for endurance | |

Standard Product

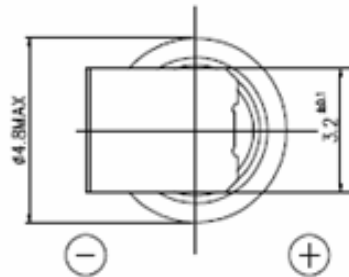
| Part number | Operating Voltage (V) | Capacitance (F) | ESR(Ω, at 1KHz) | ΦD × H (mm) |
|-------------|-----------------------|-----------------|-----------------|-------------|
| AE ME 414 | 3.3 | 0.07 | ≤ 100 | Φ4.8 × 1.4 |

Reflow soldering condition

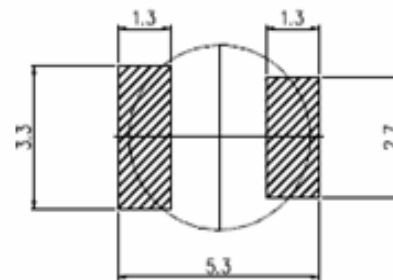


The temperature must be measured at top of the cell.
Conduct the reflow in the condition of the voltage of 0.3V or lower.

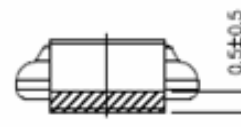
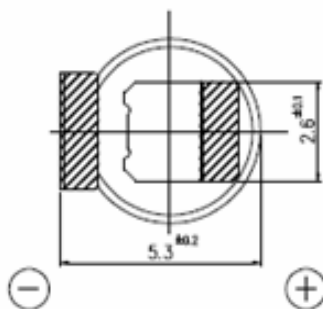
APPENDIX 3 . Capacitor drawing with tabs



(Solder Plating Area) (Solder Plating Area)



Recommended board layout
(tolerance ± 0.05)



NOTE

1. Terminal pulling strength: Over 1.0Kgf(9.8N)
2. Terminal material: SUS304 H/2 t=0.1
3. Solder Plating: Ni2.5 μ m , 0.3 μ m(Au 100%)

| | | | | | |
|----------------------------------|------------|-------------|------------|-------|------------------------|
| Designed by | Checked by | Approved by | Date | Scale | M/C NAME |
| Y S KIM | M C SONG | Y N JUNG | 2010.11.25 | 1/1 | |
| ABCO ELECTRONICS CO., LTD | | | | | DWG. NAME |
| | | | | | 414R -Finished Product |
| | | | | | DWG. NO : |
| | | | | | ABCO 414R -FP-04 |

