### CCM03 Series

#### Features
- SIM/SAM card acceptance
- Hinged and fixed covers
- Compatible with pick and place and lead free soldering

#### Typical Applications
- Handheld products
- Identification
- POS
- Automotive

#### Mechanical
- **Number of Contacts**: 6 or 8
- **Mechanical life, hinged cover**: 10,000 cycles min
- **Mechanical life, fixed cover**: 50,000 cycles
- **Card insertion force**: Hinged cover: 1N max, Fixed cover: 3N max
- **Card extraction force**: Hinged cover: 1N max, Fixed cover: 0.80N min / 3N max
- **Contact force**: 0.25N min / 0.50N max
- **Slide locking force**: 2N min / 6N max
- **Vibration Frequency**: 10 to 500 Hz. Acceleration 50m/s²
- **Max electrical discontinuity**: 1µs
- **Shock**: Peak value 500 m/s² – Duration 11 ms

#### Switch Electrical Data
- **Card detection switch**: Normally open
- **Contact resistance**: 100 mΩ max
- **Dielectric strength**: 250 Vrms min
- **Current rating**: 1 mA min / 10mA max
- **Maximum power**: 0.2 VA

#### Environment Data
- **Operating temperature**: -40°C to +85°C
- **Damp heat**: IEC 512 test number 11c (10 days)
- **Salt mist**: IEC 512 test number 11f (96 hours)
- **RoHS compliant**: Yes

#### Soldering Process
Compatible with lead free SMT soldering process

#### Contact Electrical Data
- **Insulation resistance**: 1,000 MΩ min
- **Resistance**: 100 mΩ max
- **Current rating**: 10 µA min / 1 A max
- **Dielectric strength**: 750 Vrms min

#### Switch Electrical Data

<table>
<thead>
<tr>
<th>Designation</th>
<th>Contact Plating</th>
<th>Cover</th>
<th># of Contacts</th>
<th>PCB Version</th>
<th>Card Presence Switch</th>
<th>Operating Life</th>
<th>Total Height (mm)</th>
<th>Dim. (mm)</th>
<th>Packaging</th>
</tr>
</thead>
<tbody>
<tr>
<td>CCM03-3001LFT</td>
<td>inlay hinged</td>
<td>6</td>
<td>6</td>
<td>without</td>
<td>10,000</td>
<td>2.55</td>
<td>17.2 x 29.65</td>
<td>reels of 1,000 pcs</td>
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<tr>
<td>CCM03-3002LFT</td>
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<td>6</td>
<td>2 plastic pegs</td>
<td>without</td>
<td>10,000</td>
<td>2.55</td>
<td>17.2 x 29.65</td>
<td>reels of 1,000 pcs</td>
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<tr>
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<td>8</td>
<td>6</td>
<td>without</td>
<td>10,000</td>
<td>2.55</td>
<td>17.2 x 29.65</td>
<td>reels of 1,000 pcs</td>
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<td>8</td>
<td>6</td>
<td>2 plastic pegs</td>
<td>without</td>
<td>10,000</td>
<td>2.55</td>
<td>17.2 x 29.65</td>
<td>reels of 1,000 pcs</td>
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<tr>
<td>CCM03-3009LFT</td>
<td>gold hinged</td>
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<td>6</td>
<td>without</td>
<td>10,000</td>
<td>2.55</td>
<td>17.2 x 29.65</td>
<td>reels of 1,000 pcs</td>
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<tr>
<td>CCM03-3010LFT</td>
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<td>6</td>
<td>2 plastic pegs</td>
<td>without</td>
<td>10,000</td>
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<td>17.2 x 29.65</td>
<td>reels of 1,000 pcs</td>
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<td>CCM03-3011LFT</td>
<td>gold hinged</td>
<td>8</td>
<td>6</td>
<td>without</td>
<td>10,000</td>
<td>2.55</td>
<td>17.2 x 29.65</td>
<td>reels of 1,000 pcs</td>
<td></td>
</tr>
<tr>
<td>CCM03-3012LFT</td>
<td>gold hinged</td>
<td>8</td>
<td>6</td>
<td>2 plastic pegs</td>
<td>without</td>
<td>10,000</td>
<td>2.55</td>
<td>17.2 x 29.65</td>
<td>reels of 1,000 pcs</td>
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<tr>
<td>CCM03-3013LFT</td>
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<td>6</td>
<td>6</td>
<td>with</td>
<td>10,000</td>
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<td>17.2 x 29.65</td>
<td>reels of 1,000 pcs</td>
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<td>gold hinged</td>
<td>6</td>
<td>6</td>
<td>Large soldering pads*</td>
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<td>17.2 x 29.65</td>
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<td>6</td>
<td>White cover</td>
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<td>2.55</td>
<td>17.2 x 29.65</td>
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<td>6</td>
<td>without</td>
<td>50,000</td>
<td>2.85</td>
<td>17.2 x 25.5</td>
<td>reels of 1,000 pcs</td>
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<td>6</td>
<td>without</td>
<td>50,000</td>
<td>2.85</td>
<td>17.2 x 25.5</td>
<td>reels of 1,000 pcs</td>
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<td>6</td>
<td>with</td>
<td>10,000</td>
<td>3.5</td>
<td>16.5 x 18.05</td>
<td>reels of 1,000 pcs</td>
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<td>without</td>
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<td>3.45</td>
<td>16.5 x 15.85</td>
<td>reels of 1,000 pcs</td>
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<td>6</td>
<td>with</td>
<td>10,000</td>
<td>2.9</td>
<td>16.5 x 15.85</td>
<td>reels of 1,000 pcs</td>
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</table>

* Can go through reflow upside down

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**C & K**
CCM03 Series

CCM03-3004 LFT

Dimensions are shown in mm
Specifications and dimensions subject to change

www.ck-components.com
CCM03 Series

CCM03-3012 LFT

Dimensions are shown in mm
Specifications and dimensions subject to change

www.ck-components.com
CCM03 Series

CCM03-3519 LFT

Dimensions are shown in mm
Specifications and dimensions subject to change

www.ck-components.com
**CCM03 Series**

**CCM03-3504 LFT / CCM03-3505 LFT**

**Dimensions are shown in mm**

Specifications and dimensions subject to change

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**RECOMMENDED PC BOARD LAYOUT**

(Component side)

Plastic outline

Contact foot area

0.8 x 1

Prohibited area

Contact location according to ENV1375-1 & GSM11-11

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CCM03 Series

CCM03-3754 LFT

RECOMMENDED PC BOARD LAYOUT (Component side)

Dimensions are shown in mm
Specifications and dimensions subject to change

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CCM03 Series

CCM03-3764 LFT

Dimensions are shown in mm
Specifications and dimensions subject to change
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