CCM02 MK2 Series

Features
- Operating life 500,000 cycles
- Insertion force 40N
- EMV
- PCI & PCI ready
- Card detection sealed switch

Mechanical
- Number of Contacts 8
- Mechanical life 500,000 cycles min
- Card insertion force 10N to 40N
- Card extraction force 1N min / 10N max
- Contact force 0,2N / 0,50N max
- Card detection switch 0,8 N max for actuation (end travel switch actuation force actuates when card is 0,9mm from card stop)
- 1,8 N max for complete depression
- Vibration Frequency 10 to 500 Hz. Acceleration 50m/s²
- Duration 6 hours - amplitude 0,35mm

Packaging
- Tray 30 parts / Cartons 300 parts
- Reel 120 parts

Soldering
Compatible with lead free reflow soldering process
For version with security cover, please contact Customer Service for soldering recommendations.

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

Environmental 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)

Card detection switch Sealed against dust
RoHS compliant

Typical Applications
- Transaction
- Identification
- POS

Typical Applications

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<tr>
<th>Designation</th>
<th>Termination</th>
<th>Contact Type</th>
<th>I/O Protect</th>
<th>Security Cover</th>
<th>Total Height (mm)</th>
<th>Dimension</th>
<th>PCB version</th>
<th>Packaging</th>
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<tbody>
<tr>
<td>CCM02-2503LFT</td>
<td>THT</td>
<td>landing</td>
<td></td>
<td></td>
<td>6,25</td>
<td>38,5 x 55,6</td>
<td>4 clips</td>
<td>Tray</td>
</tr>
<tr>
<td>CCM02-2504LFT</td>
<td>SMT</td>
<td>landing</td>
<td></td>
<td></td>
<td>6,25</td>
<td>38,5 x 55,6</td>
<td>4 clips</td>
<td>Tray</td>
</tr>
<tr>
<td>CCM02-2508LFT</td>
<td>SMT</td>
<td>landing</td>
<td></td>
<td></td>
<td>6,25</td>
<td>38,5 x 55,6</td>
<td>4 clips</td>
<td>Tray</td>
</tr>
<tr>
<td>CCM02-F508LFT</td>
<td>SMT</td>
<td>friction</td>
<td></td>
<td></td>
<td>6,25</td>
<td>36,5 x 55,6</td>
<td>2 plastic pegs</td>
<td>Tray</td>
</tr>
<tr>
<td>CCM02-F844LFT</td>
<td>SMT</td>
<td>friction</td>
<td>Yes</td>
<td>Yes</td>
<td>6,6</td>
<td>40,5 x 58</td>
<td>4 metal pegs</td>
<td>Tray / Reel</td>
</tr>
</tbody>
</table>

Dimensions are shown in mm
Specifications and dimensions subject to change
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PCI: I/O Protect

**Definition**
Special accessory in order to avoid and detect frontal access to data contact. It is electrically connected to the PCB through spring finger contacts.

**Process**
It must be in open position during the reflow soldering of the connector and has to be locked in closed position after soldering.

![PCI: I/O Protect](image)

**I/O Protect locking tool**
C&K is proposing a manual tool to lock the I/O protect accessory after soldering.
Ordering code: C-CM02-E50

![PCI: I/O Protect locking tool](image)

PCI: Security Cover

**Definition**
It is a multilayer cover placed over the connector to avoid and detect data contact access, especially from the top. It is connected to the PCB through 6 SMT terminals that are soldered at the same time as the other smart card terminals.

**Process**
Please contact your Sales Representative for advice and recommendations about soldering this version.
CCM02 MK2 Series

CCM02-2508 LFT / CCM02 F508 LFT

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**Dimensions are shown in mm**

Specifications and dimensions subject to change

Full Size

4 dec 18

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