

# CCM01 Series

## Features

- Operating life up to 500,000 cycles
- 40N card insertion force
- EMV
- PCI ready
- Card detection sealed switch

## Typical Applications

- Transaction
- Identification
- POS



## Mechanical

|                          |  |
|--------------------------|--|
| Number of Contacts       | 8  |
| Mechanical life          | Up to 500,000 cycles   |
| Card insertion force     | 40N max.   |
| Card extraction force    | 1 N min / 10 N max   |
| Contact force            | 0,2N / 0,50 N 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/s <sup>2</sup><br>Duration 6 hours - amplitude 0,35mm                   |
| Max elect. discontinuity | 1µs  |
| Shock                    | Peak value 500 m/s <sup>2</sup> – Duration 11 ms<br>3 shocks in each direction of each axis            |

## Packaging

Tray 30 parts / Cartons 300 parts  
Reel 200 parts / Cartons 1,000 parts

## Soldering

Compatible with lead free SMT reflow 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

|                       |                      |
|-----------------------|----------------------|
| 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        |                                    |

| Designation   | Termination | Operating Life   | Card Insertion Force |
|---------------|-------------|------------------|----------------------|
| CCM01-2027LFT | SMT         | 100,000 cycles   | 40N                  |
| CCM01-2327LFT | SMT         | 500,000 cycles * | 40N                  |

\* CCM01-2327: 500,000 cycles available Q4 2011



