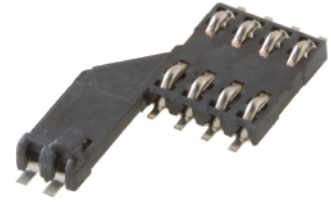


## Features

- ID1 full size card acceptance
- Card detection sealed switch
- Compatible with pick and place and lead free soldering

## Typical Applications

- Transaction
- POS
- Identification



## Mechanical

|                          |                                                                                                        |
|--------------------------|--------------------------------------------------------------------------------------------------------|
| Number of contacts       | 6 or 8                                                                                                 |
| Mechanical life          | 50,000 cycles                                                                                          |
| Card insertion force     | 10N max                                                                                                |
| Card extraction force    | 1N min / 10N max                                                                                       |
| Contact force            | 0,4N to 0,7N                                                                                           |
| 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                   |
| Shock                    | Peak value 500 m/s <sup>2</sup> – Duration 11 ms<br>3 shocks in each direction of each axis            |
| Max elect. discontinuity | 1μs                                                                                                    |

## Packaging

See table below

## Soldering Process

Compatible with lead free SMT reflow soldering process

## Contact Electrical Data

|                        |                     |
|------------------------|---------------------|
| Insulation resistance  | 1000 MΩ min         |
| Contact resistance max | 100 mΩ max          |
| Switching current      | 10 μA min / 1 A max |
| Dielectric strength    | 750 Vrms min        |

## Switch Electrical Data

|                          |                      |
|--------------------------|----------------------|
| Card detection switch    | Normally open        |
| Rc card detection switch | 100 mΩ max           |
| Dielectric strength      | 250 Vrms min         |
| Switch current rating    | 1 mA min / 10 mA max |
| Maximum switch power     | 0.2 VA               |

## Environmental Data

|                       |                                    |
|-----------------------|------------------------------------|
| Operating temperature | -40°C to +85°C                     |
| Salt mist             | IEC 512 test number 11f (96 hours) |
| Damp heat             | IEC 512 test number 11c (10 days)  |
| Card detection switch | Sealed against dust                |
| RoHS compliant        |                                    |

| Designation   | Housing Type | # of Contacts | Contact Force | Total Height (mm) | Total Dim. (mm) | Packaging          |
|---------------|--------------|---------------|---------------|-------------------|-----------------|--------------------|
| CCM04-5427LFT | standard     | 8             | 0,4N to 0,7N  | 2,65              | 18,75 X 25      | reels of 1,000 pcs |
| CCM04-5436LFT | standard     | 8             | 0,4N to 0,7N  | 0,90              | 18,75 X 26,9    | reels of 1,000 pcs |
| CCM04-5468LFT | stand-off    | 8             | 0,4N to 0,7N  | 3,5               | 18,75 X 24      | reels of 1,000 pcs |
| CCM04-5454LFT | standard     | 8             | 0,4N to 0,7N  | 0,90              | 18,75 X 26,9    | reels of 1,000 pcs |
| CCM04-5455LFT | standard     | 8             | 0,4N to 0,7N  | 0,90              | 18,75 X 26,9    | reels of 1,000 pcs |

## Full Size

Technical drawing of a card reader assembly, showing front, side, and detail views with dimensions and tolerances.

**Front View (Top):**

- Overall width:  $15.15 \pm 0.3$
- Overall height:  $2.65 \pm 0.05$
- Top edge:  $0.25 \pm 0.05$  x  $45^\circ$
- Internal dimensions:  $3.81$ ,  $3.81$ ,  $0.5$ ,  $40^\circ$ ,  $1.1 \pm 0.15$ ,  $11.15$ ,  $16.6$ ,  $9.5 \pm 0.3$ ,  $0.85$
- Feature: SEE DETAIL A

**Side View (Bottom):**

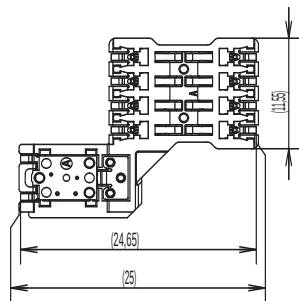
- Overall width:  $15.6$
- Overall height:  $11.15$
- Internal dimensions:  $12.9^{+0}_{-0.1}$ ,  $8x$ ,  $0.7$ ,  $0.3$ ,  $7.5$ ,  $1.75$ ,  $7.65$ ,  $0.75$ ,  $11.8$ ,  $15.45$
- Feature: Card stop  $0.9 \pm 0.25$
- Feature: Pick and place area  $\phi 3.3$
- Feature:  $45^\circ$
- Feature:  $1.5 \times 45^\circ$
- Feature:  $0.75$   $\pm 0.10$   $-0.05$

**DETAIL A (Scale 10):**

- Overall width:  $0.8$
- Overall height:  $0.75$
- Internal dimensions:  $0.8$ ,  $15.15$

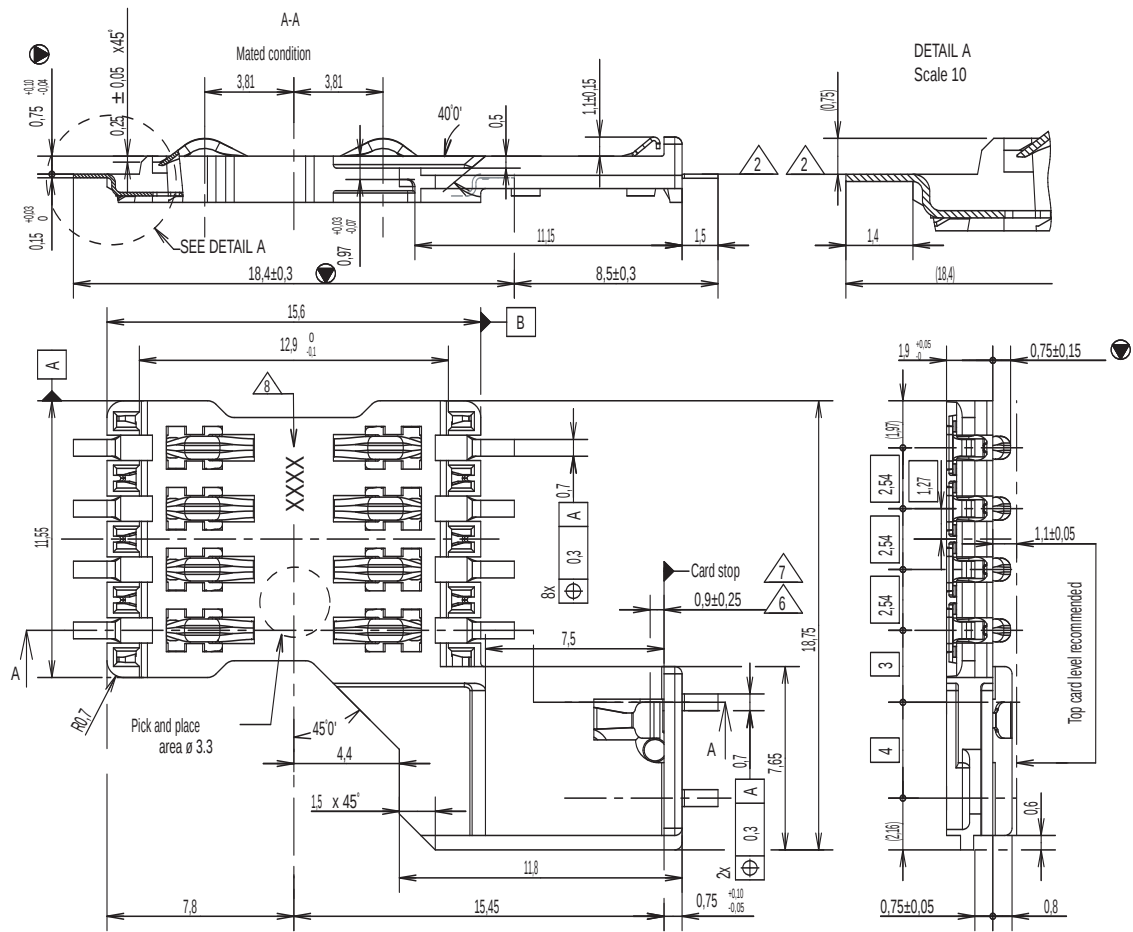
**Top View (Right):**

- Overall width:  $19^{+0.05}_{-0}$
- Overall height:  $0.75 \pm 0.15$
- Internal dimensions:  $2.54$ ,  $1.27$ ,  $2.54$ ,  $2.54$ ,  $2.54$ ,  $1.1 \pm 0.05$ ,  $1.2$ ,  $0.1$ ,  $0.12$ ,  $2.15$ ,  $0.6$ ,  $0.8$
- Feature: Top card level recommended

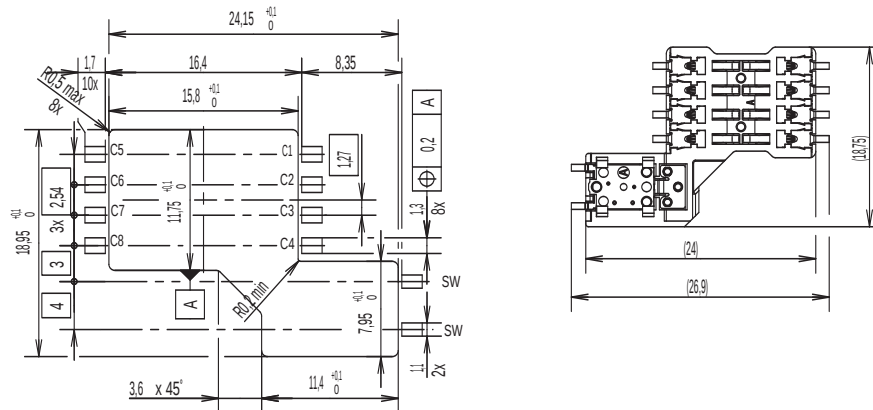
[illegible]

## CCM04-5436 LFT

## Full Size

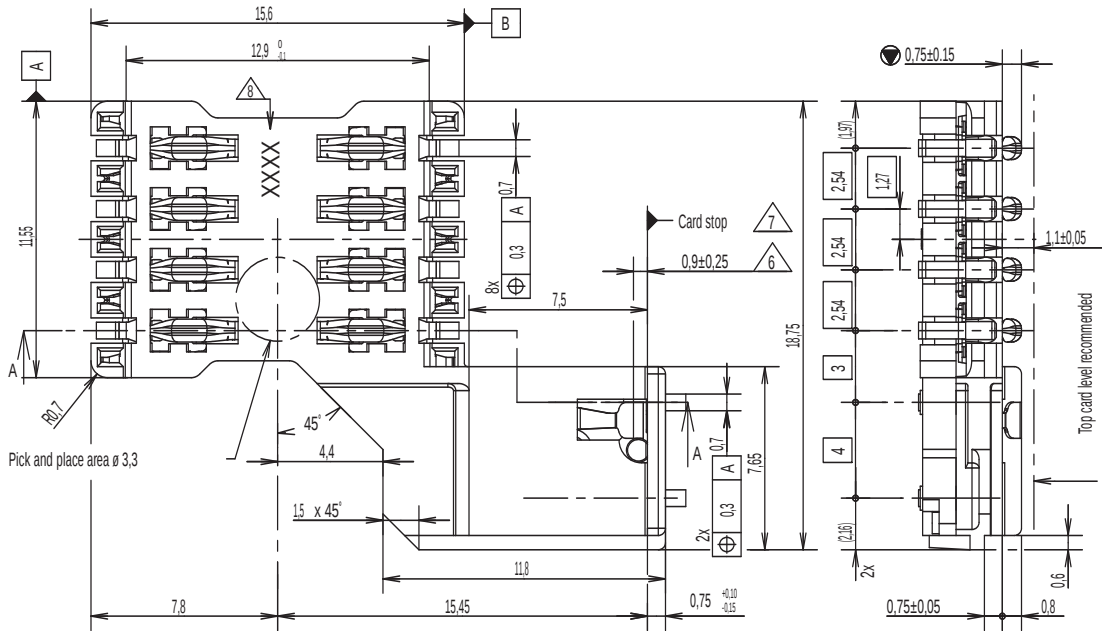
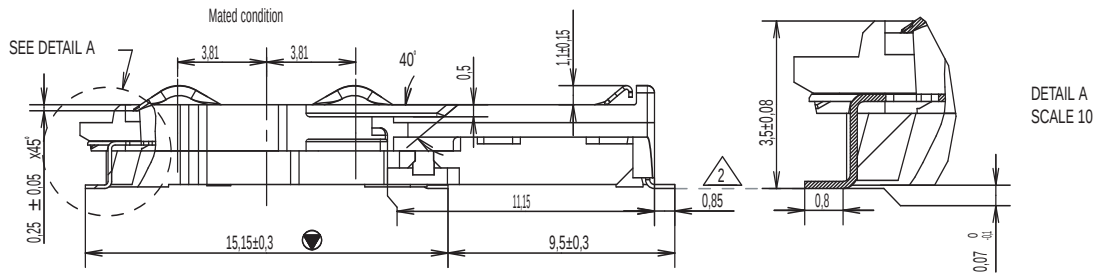


RECOMMENDED PC BOARD LAYOUT  
(Component side)

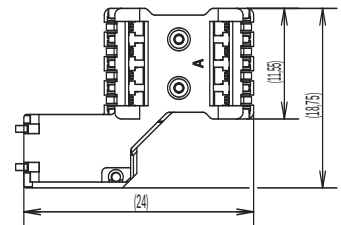
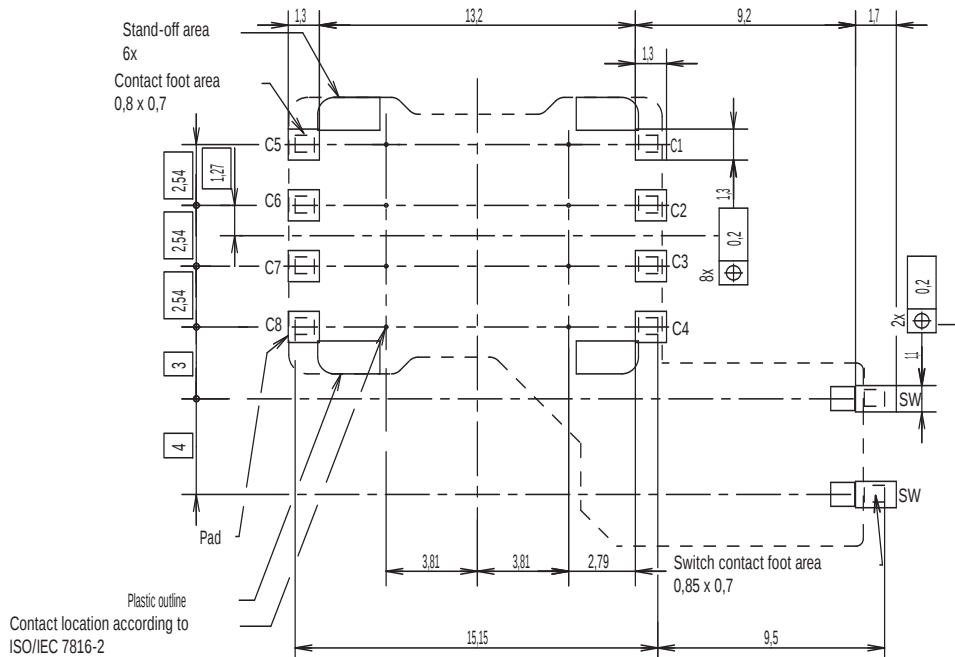


# CCM04 MK4 Series

CCM04-5468 LFT



RECOMMENDED PC BOARD LAYOUT  
(Component side)



First Angle  
Projection

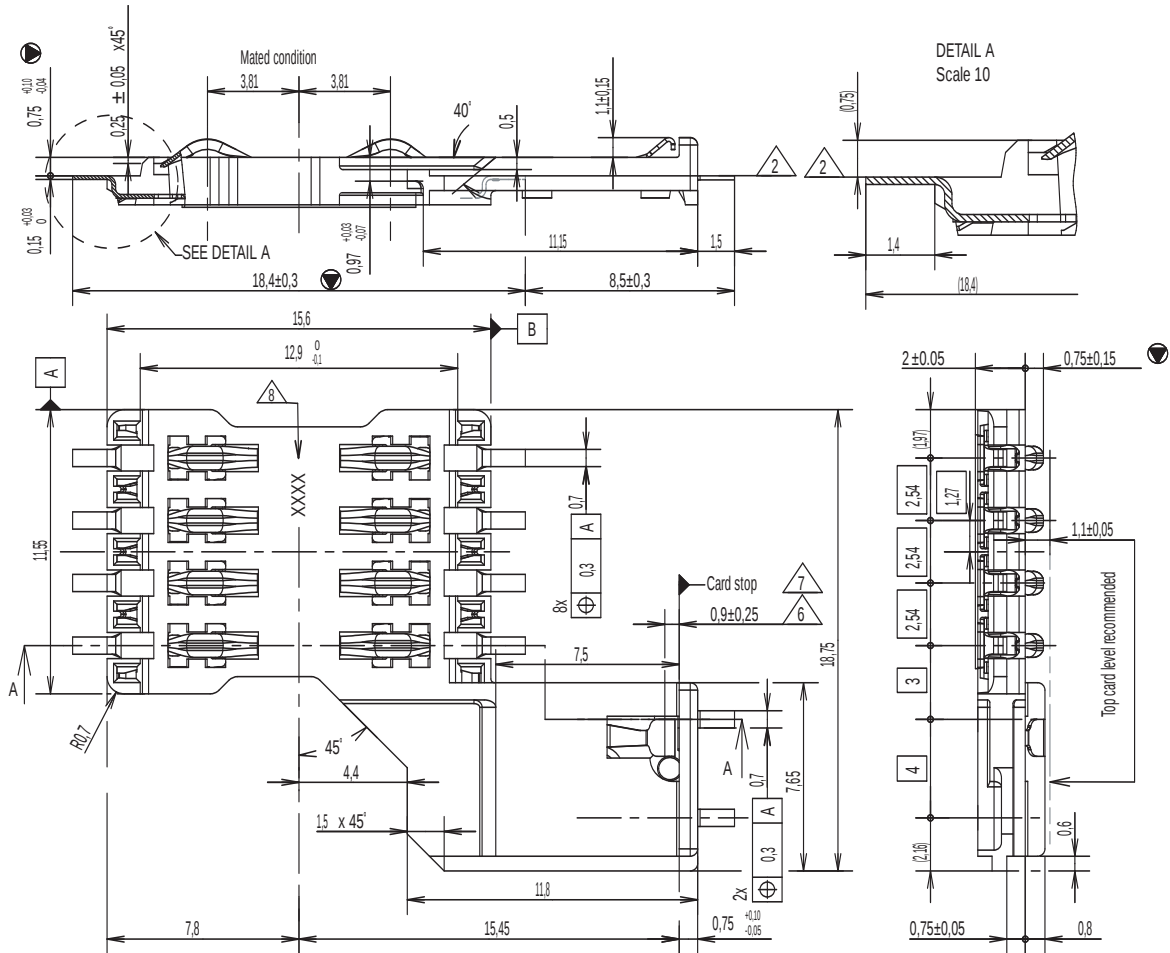
Dimensions are shown in mm  
Specifications and dimensions subject to change

[www.ck-components.com](http://www.ck-components.com)

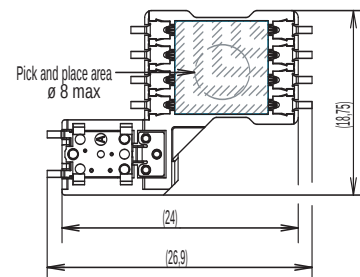
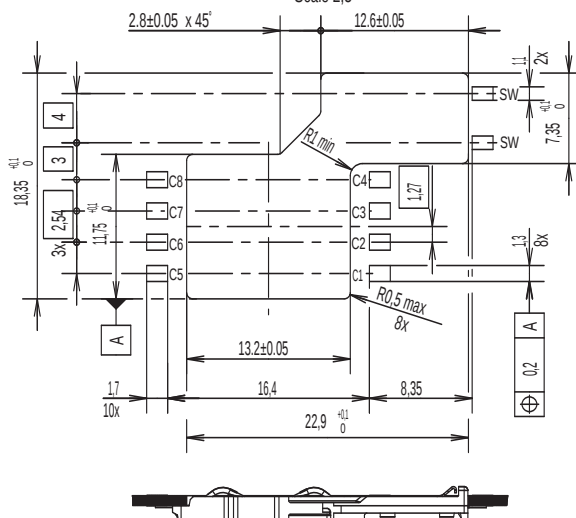
**C&K**

# CCM04-5454 LFT

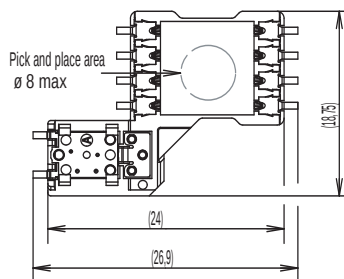
## Full Size



RECOMMENDED PC BOARD LAYOUT  
(Component side)  
Scale 2,5



# Full Size

[illegible]

Dimensions are shown in mm  
Specifications and dimensions subject to change

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