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 1,8N max. for complete depression
Vibration Frequency	10 to 500 Hz. Acceleration 50m/s² Duration 6 hours - amplitude 0,35 mm
Max electrical discontinuity	1µs
Shock	Peak value 500 m/s² – Duration 11 ms 3 shocks in each direction of each axis

Switch Electrical Data

Card detection switch	Normally open
Contact resistance	100 mΩ max
Dielectric strength	250 Vrms min
Current rating	1 mA min / 10m A 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	

Soldering Process

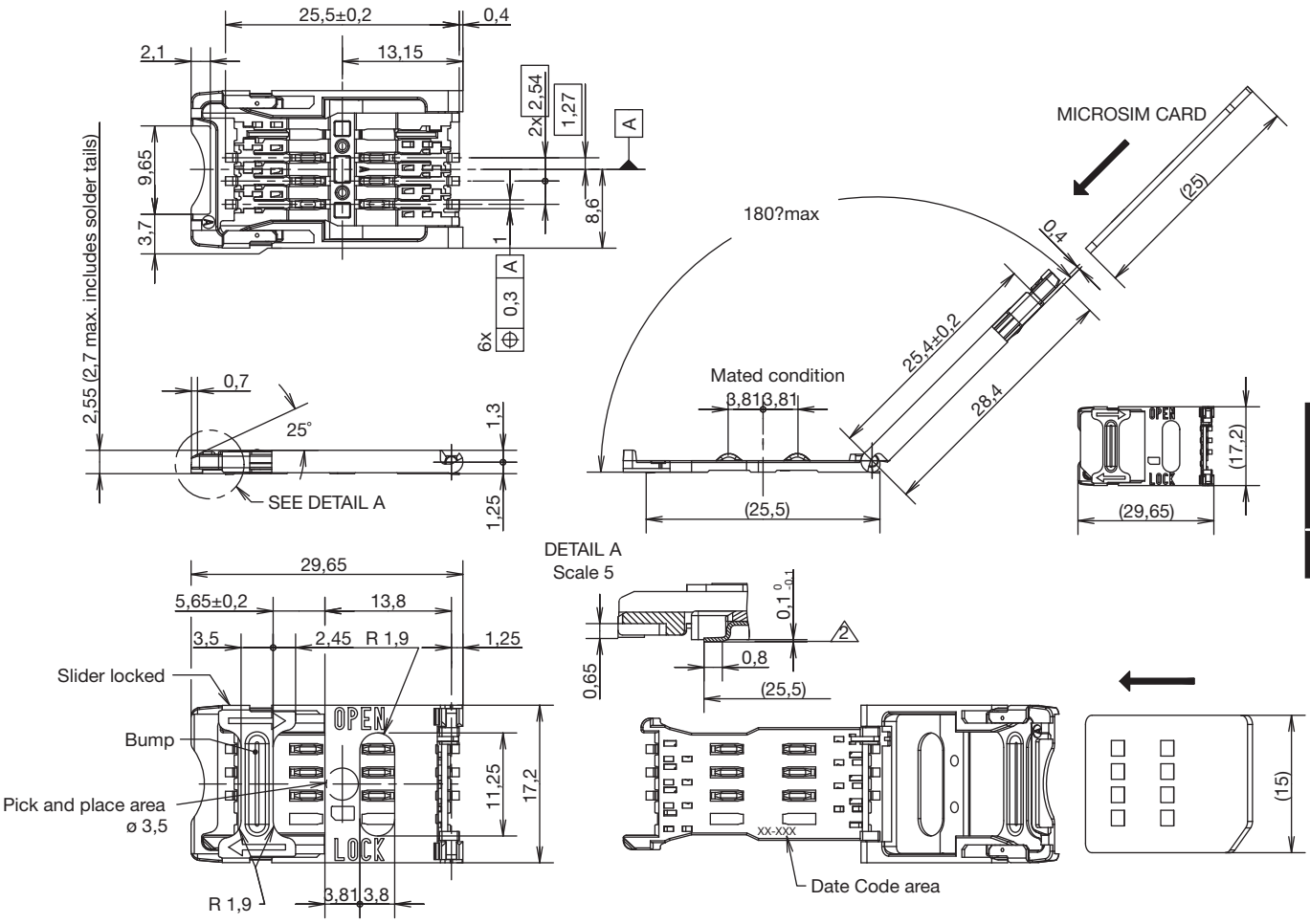
Compatible with lead free SMT soldering process

Contact Electrical Data

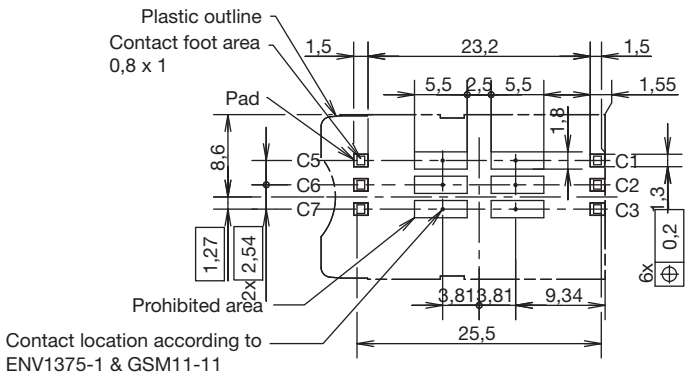
Insulation resistance	1,000 MΩ min
Resistance	100 mΩ max
Current rating	10 µA min / 1 A max
Dielectric strength	750 Vrms min

Designation	Contact Plating	Cover	# of Contacts	PCB Version	Card End Travel Switch	Operating Life	Total Height (mm)	Dim. (mm)	Packaging
CCM03-3001LFT	inlay	hinged	6		without	10,000	2,55	17,2 x 29,65	reels of 1,000 pcs
CCM03-3002LFT	inlay	hinged	6	2 plastic pegs	without	10,000	2,55	17,2 x 29,65	reels of 1,000 pcs
CCM03-3003LFT	inlay	hinged	8		without	10,000	2,55	17,2 x 29,65	reels of 1,000 pcs
CCM03-3004LFT	inlay	hinged	8	2 plastic pegs	without	10,000	2,55	17,2 x 29,65	reels of 1,000 pcs
CCM03-3009LFT	gold	hinged	6		without	10,000	2,55	17,2 x 29,65	reels of 1,000 pcs
CCM03-3010LFT	gold	hinged	6	2 plastic pegs	without	10,000	2,55	17,2 x 29,65	reels of 1,000 pcs
CCM03-3011LFT	gold	hinged	8		without	10,000	2,55	17,2 x 29,65	reels of 1,000 pcs
CCM03-3012LFT	gold	hinged	8	2 plastic pegs	without	10,000	2,55	17,2 x 29,65	reels of 1,000 pcs
CCM03-3013LFT	gold	hinged	6		without	10,000	2,55	17,2 x 29,65	reels of 1,000 pcs
CCM03-3512LFT	gold	hinged	6		without	10,000	2,55	17,2 x 29,65	reels of 1,000 pcs
CCM03-3519LFT	gold	hinged	6		without	10,000	2,55	17,2 x 29,65	reels of 1,000 pcs
CCM03-3518LFT	gold	hinged	6		without	10,000	2,2	18 x 29,65	reels of 1,000 pcs
CCM03-3504LFT	gold	fixed	8		without	50,000	2,85	17,2 x 25,5	reels of 1,000 pcs
CCM03-3505LFT	gold	fixed	6		without	50,000	2,85	17,2 x 25,5	reels of 1,000 pcs
CCM03-3535LFT	inlay	fixed	6		without	50,000	2,85	17,2 x 25,5	reels of 1,000 pcs
CCM03-3754LFT	inlay	fixed	6		with	10,000	3,5	16,5 x 18,05	reels of 1,000 pcs
CCM03-3760LFT	inlay	fixed	6		without	10,000	3,45	16,5 x 15,85	reels of 1,000 pcs
CCM03-3764LFT	inlay	none	6		with	10,000	2,9	16,5 x 15,85	reels of 1,000 pcs

CCM03-3001 LFT / CCM03-3009 LFT



RECOMMENDED PC BOARD LAYOUT
(Component side)



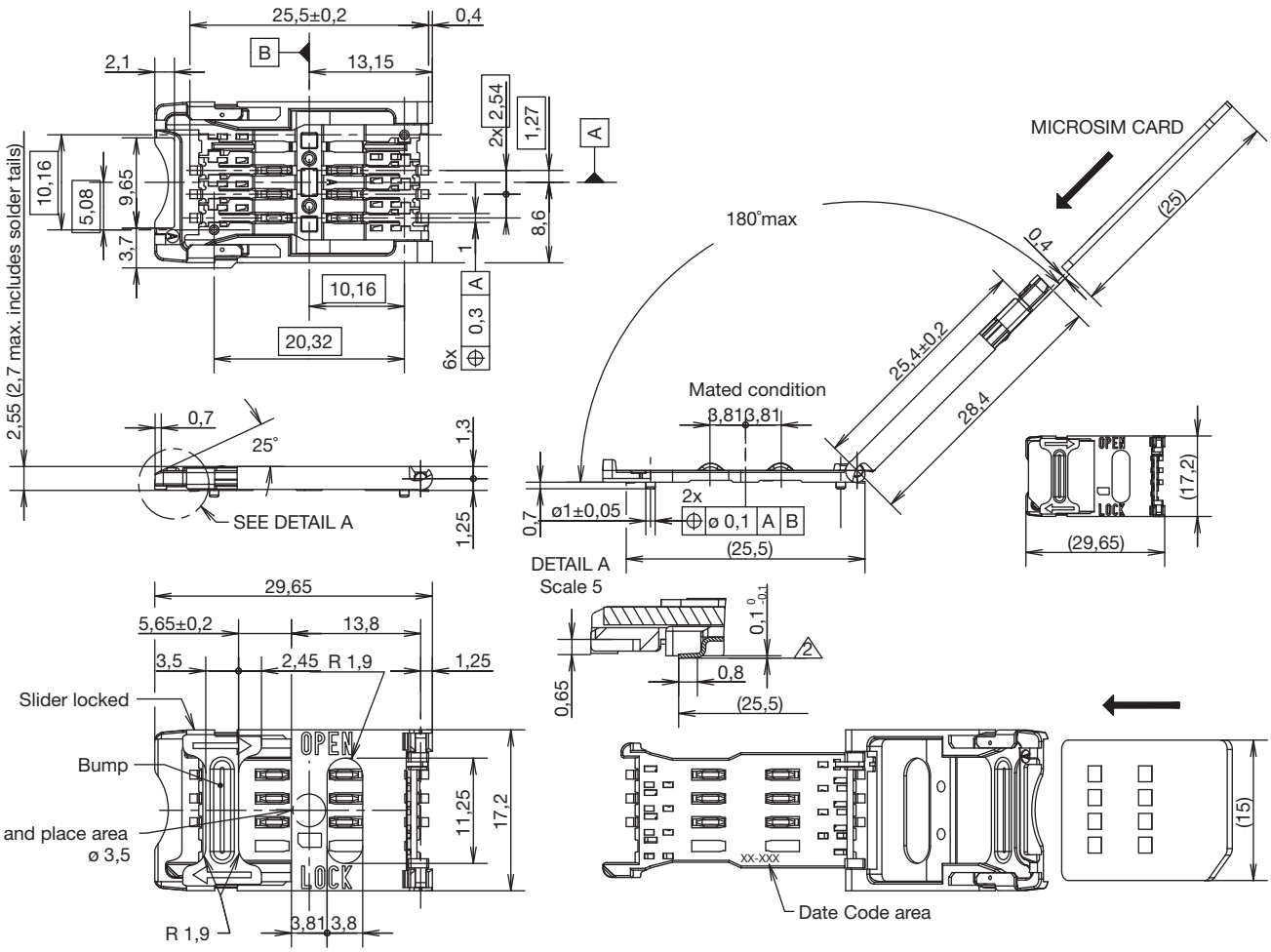
SIM/SAM

First Angle Projection

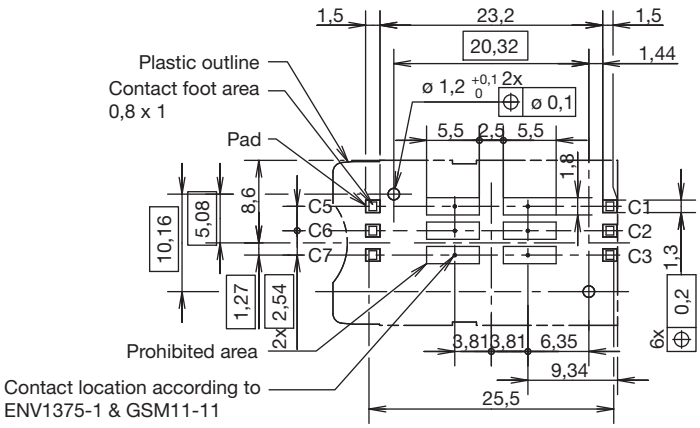
Dimensions are shown in mm
Specifications and dimensions subject to change

CCM03 Series

CCM03-3002 LFT / CCM03-3010 LFT



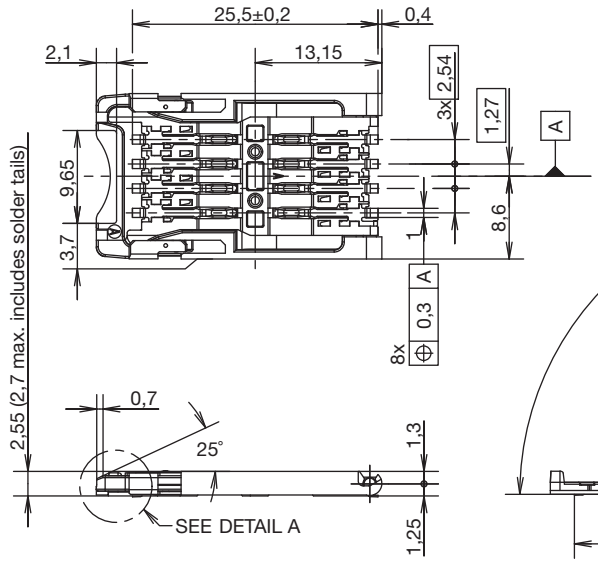
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(Component side)

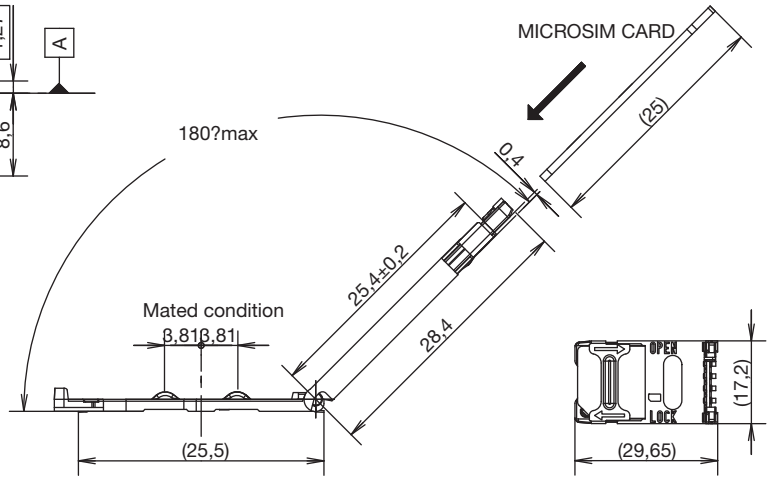


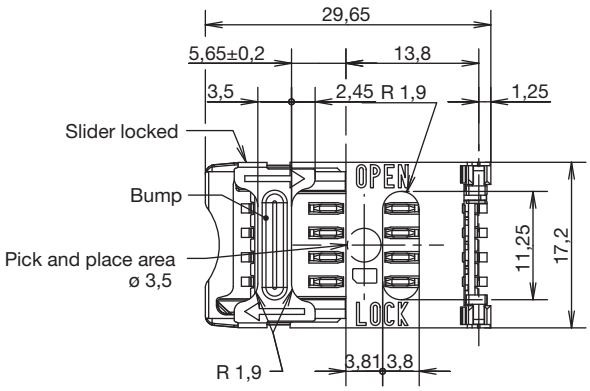
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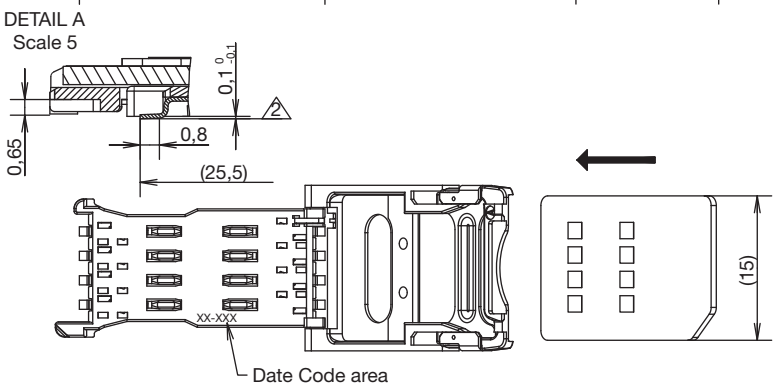
Dimensions are shown in mm
Specifications and dimensions subject to change

CCM03-3003 LFT

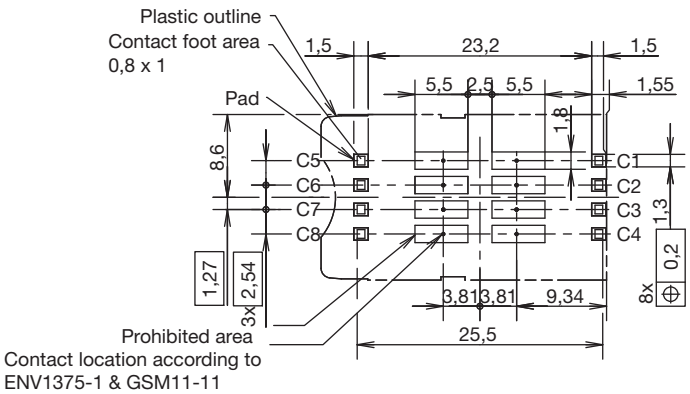








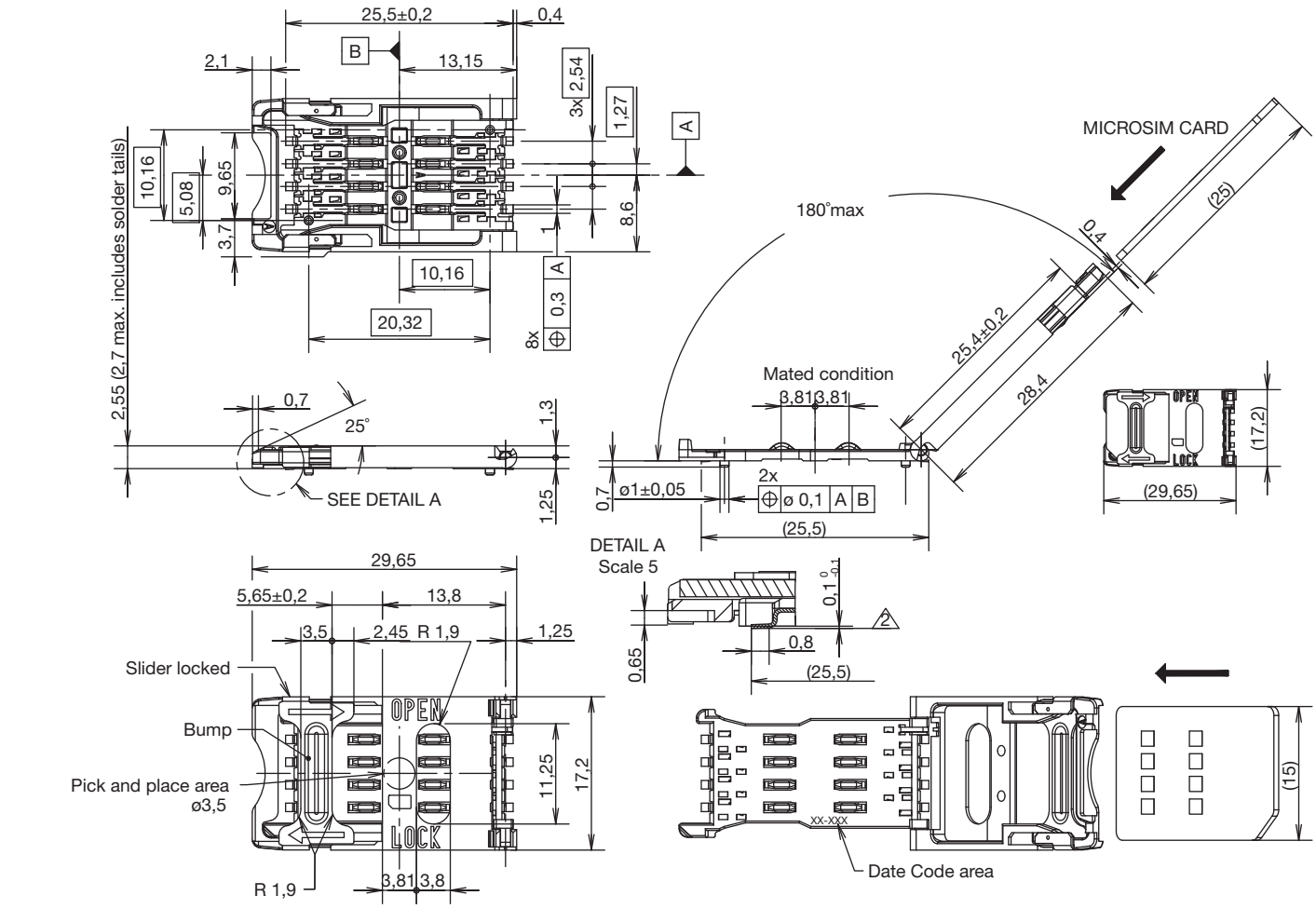
RECOMMENDED PC BOARD LAYOUT
(Component side)



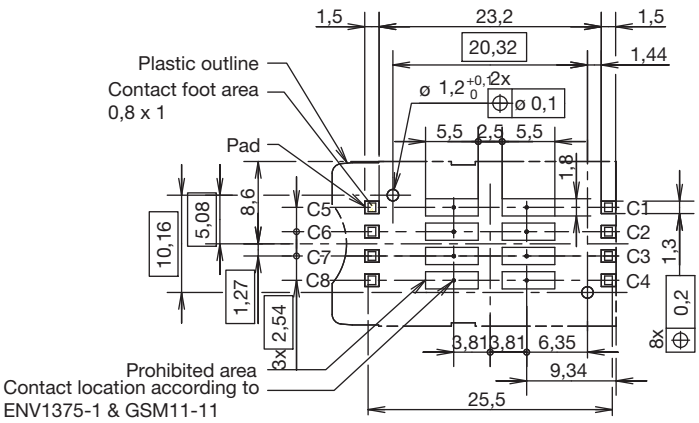
First Angle Projection

Dimensions are shown in mm
Specifications and dimensions subject to change

CCM03-3004 LFT



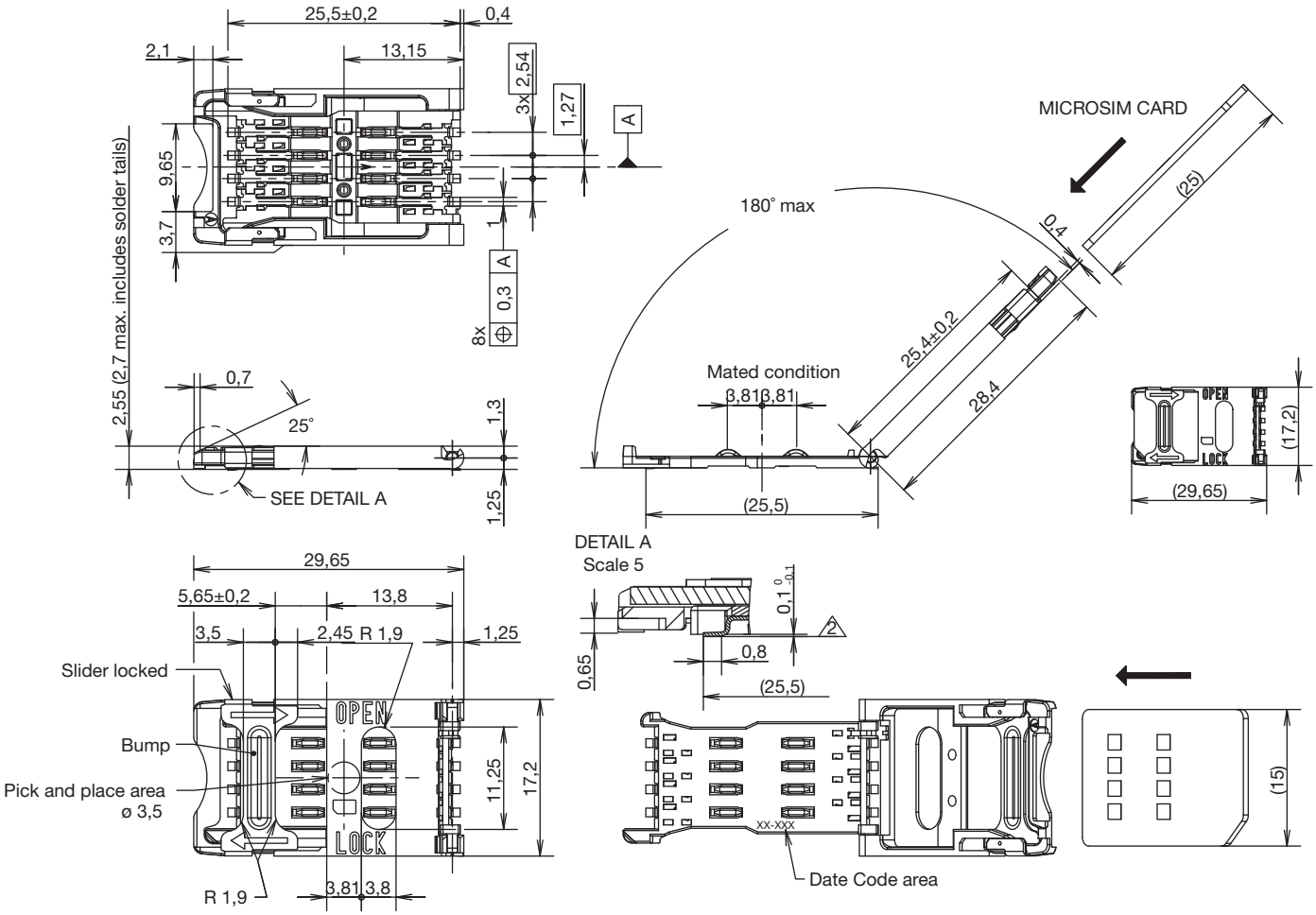
RECOMMENDED PC BOARD LAYOUT
(Component side)



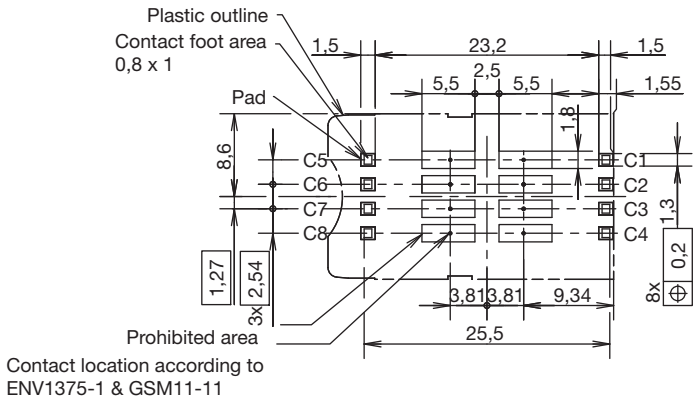
First Angle Projection

Dimensions are shown in mm
Specifications and dimensions subject to change

CCM03-3011 LFT



RECOMMENDED PC BOARD LAYOUT
(Component side)

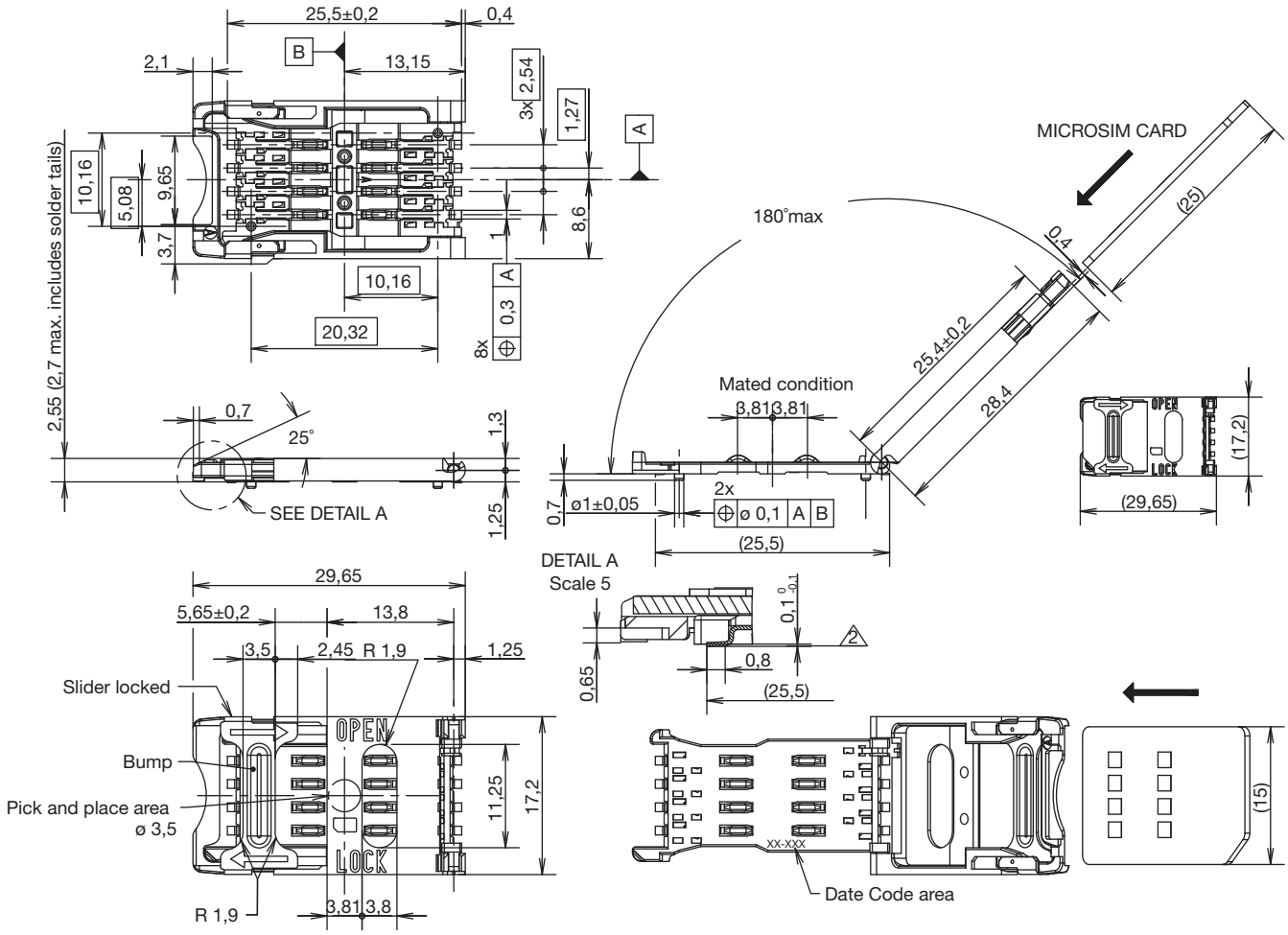


SIM/SAM

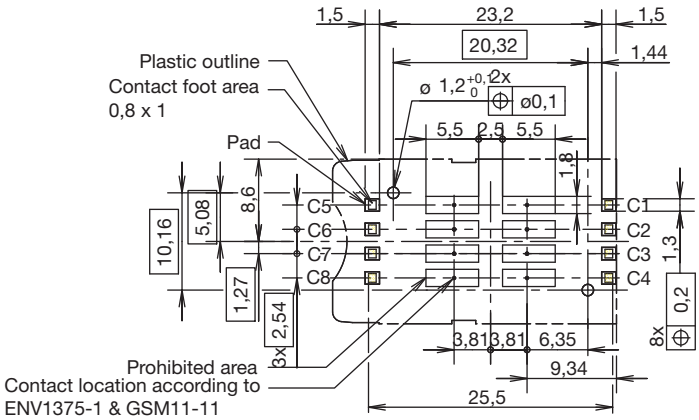
First Angle Projection

Dimensions are shown in mm
Specifications and dimensions subject to change

CCM03-3012 LFT



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(Component side)

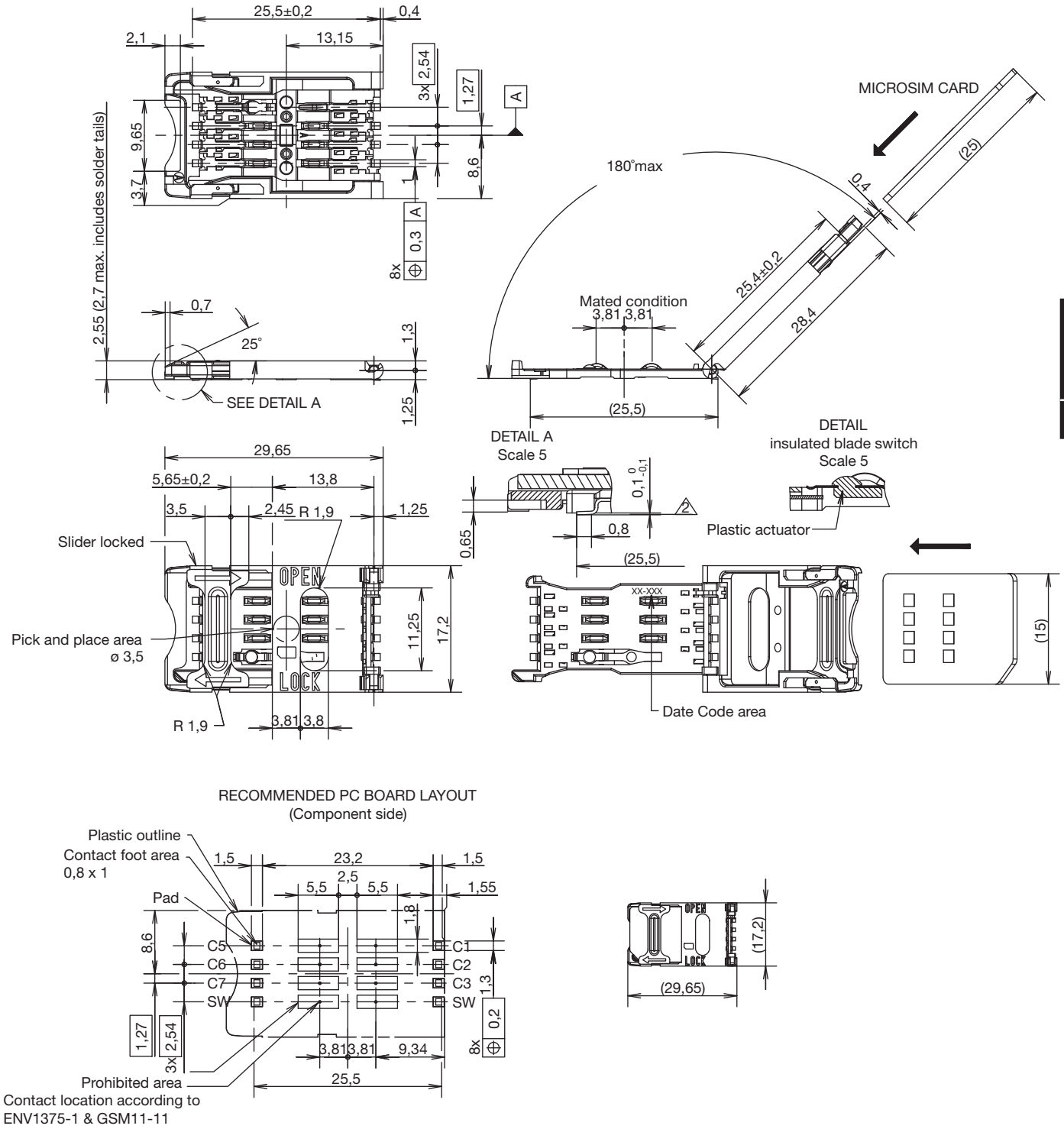


First Angle Projection

Dimensions are shown in mm
Specifications and dimensions subject to change

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CCM03-3013 LFT



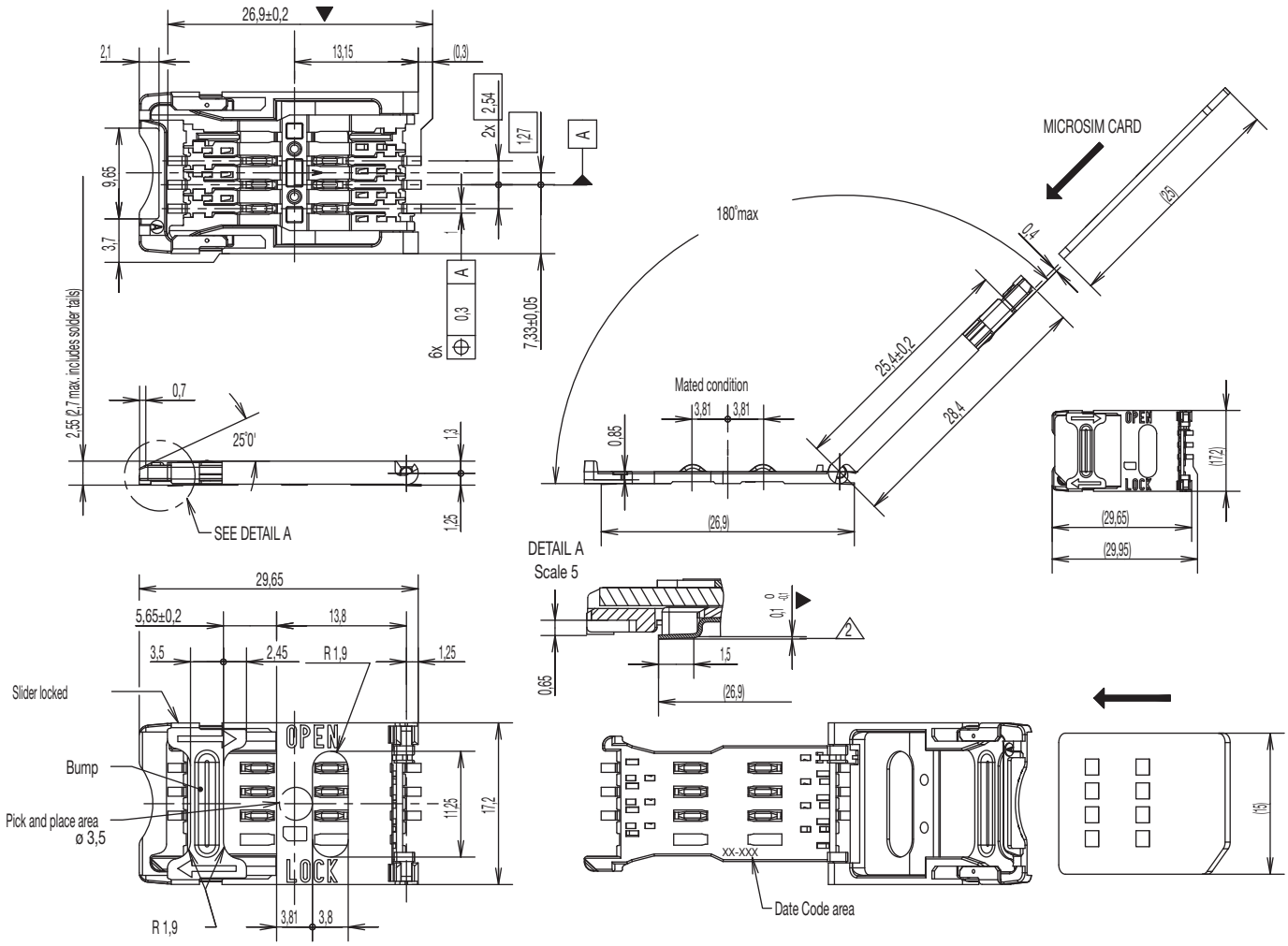
RECOMMENDED PC BOARD LAYOUT
(Component side)

SIM/SAM

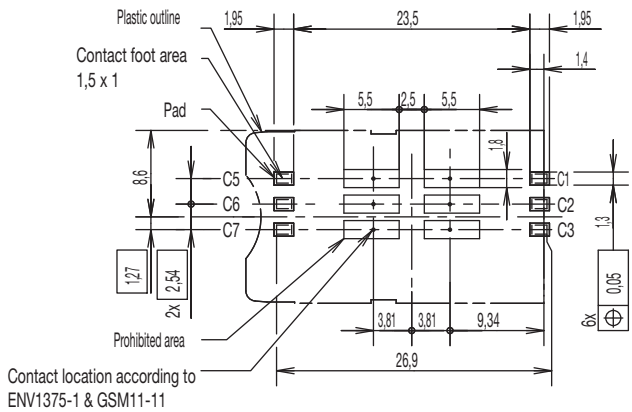
First Angle Projection

Dimensions are shown in mm
Specifications and dimensions subject to change

CCM03-3512 LFT



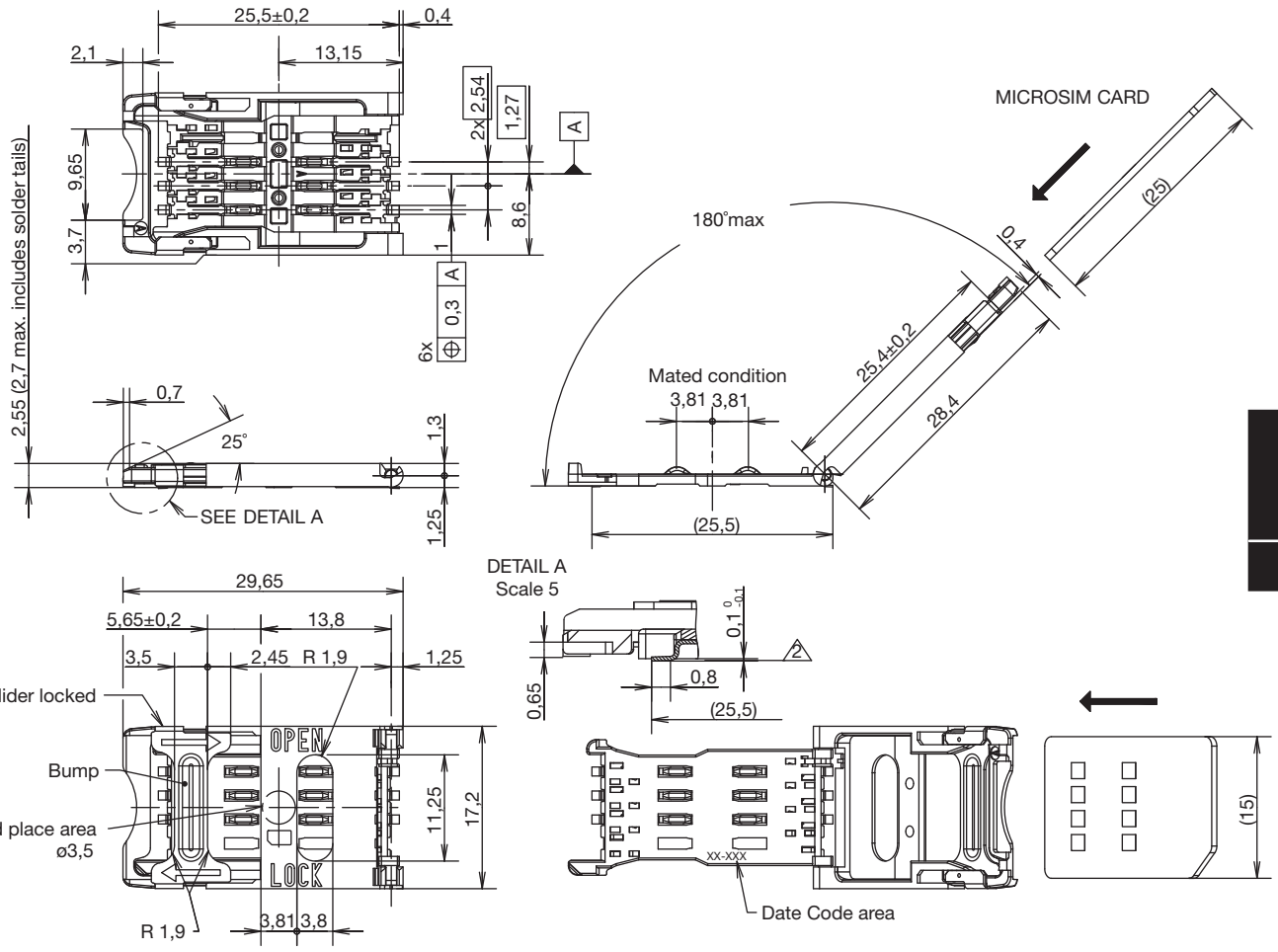
RECOMMENDED PC BOARD LAYOUT
(Component side)



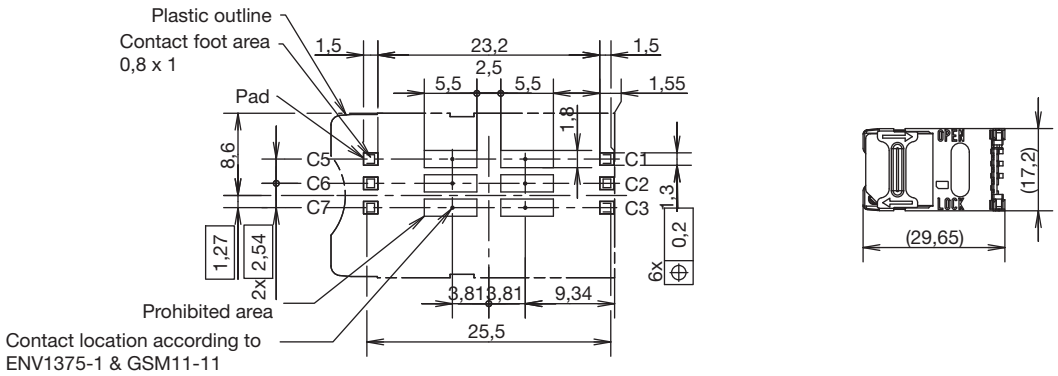
First Angle Projection

Dimensions are shown in mm
Specifications and dimensions subject to change

CCM03-3519 LFT



RECOMMENDED PC BOARD LAYOUT
(Component side)

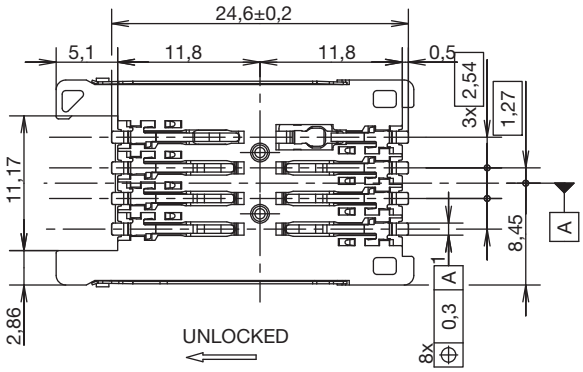


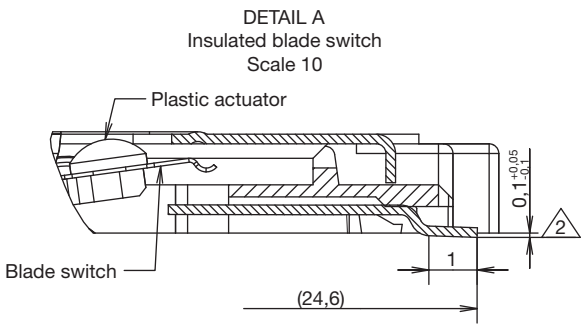
SIM/SAM

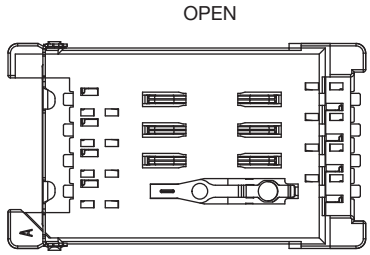
First Angle Projection

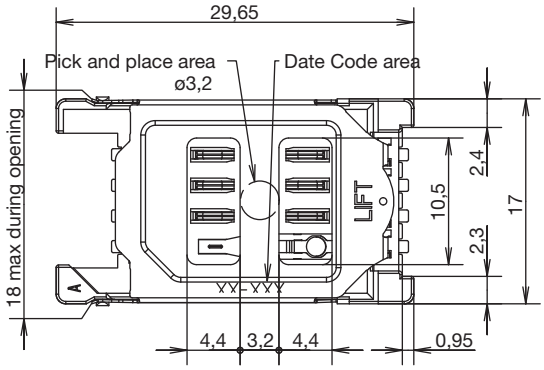
Dimensions are shown in mm
Specifications and dimensions subject to change

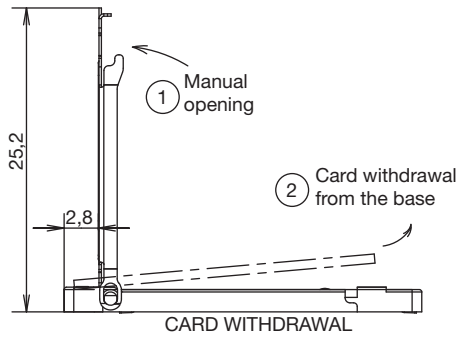
CCM03-3518 LFT



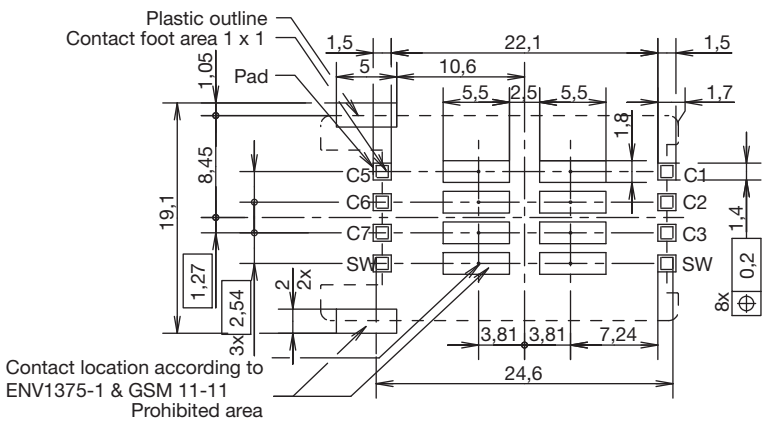


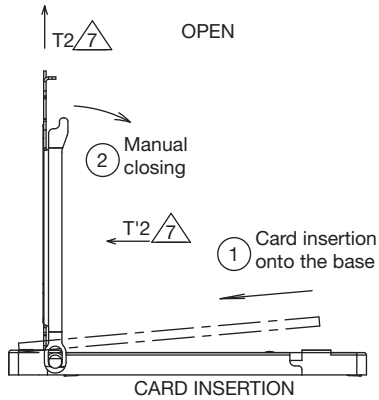






RECOMMENDED PC BOARD LAYOUT
(Component side)



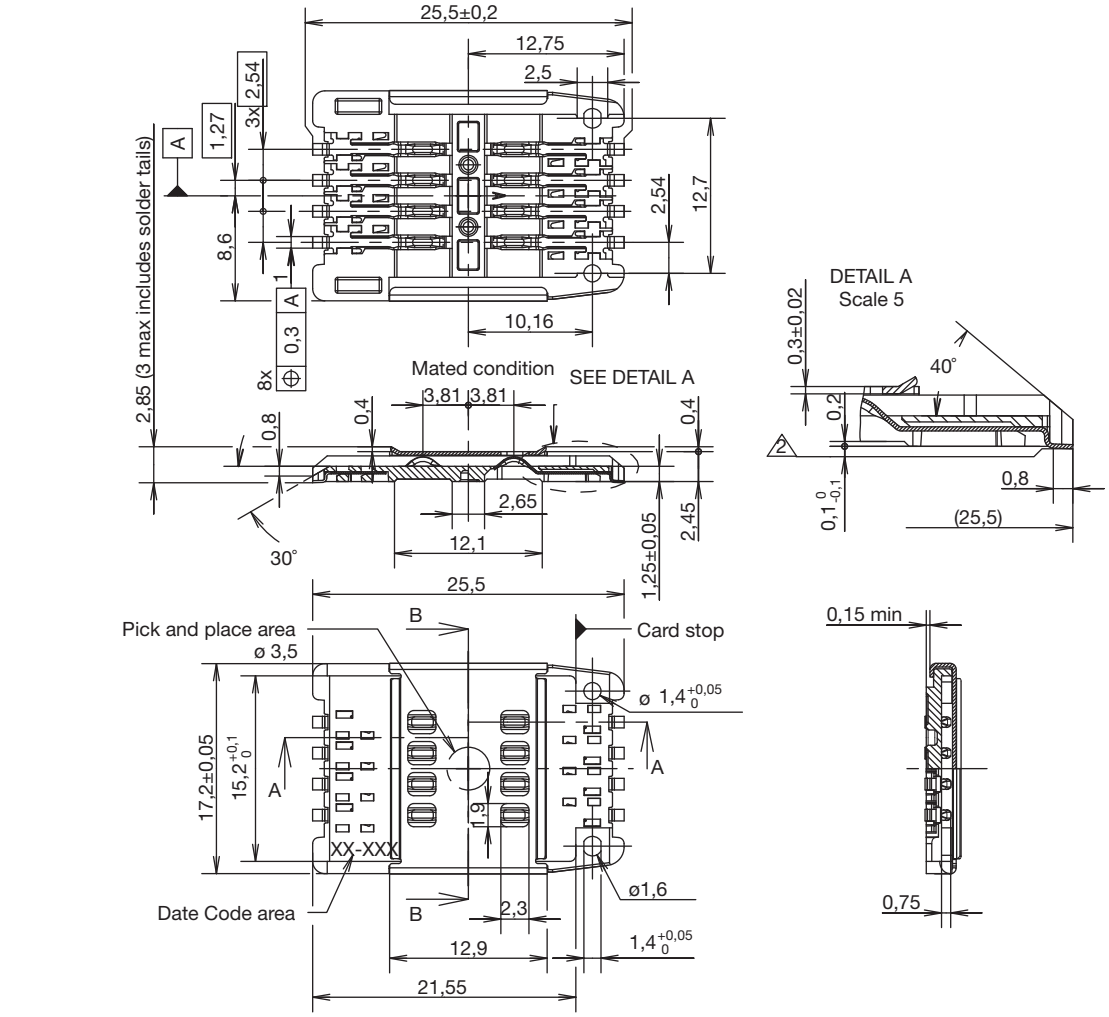


First Angle Projection

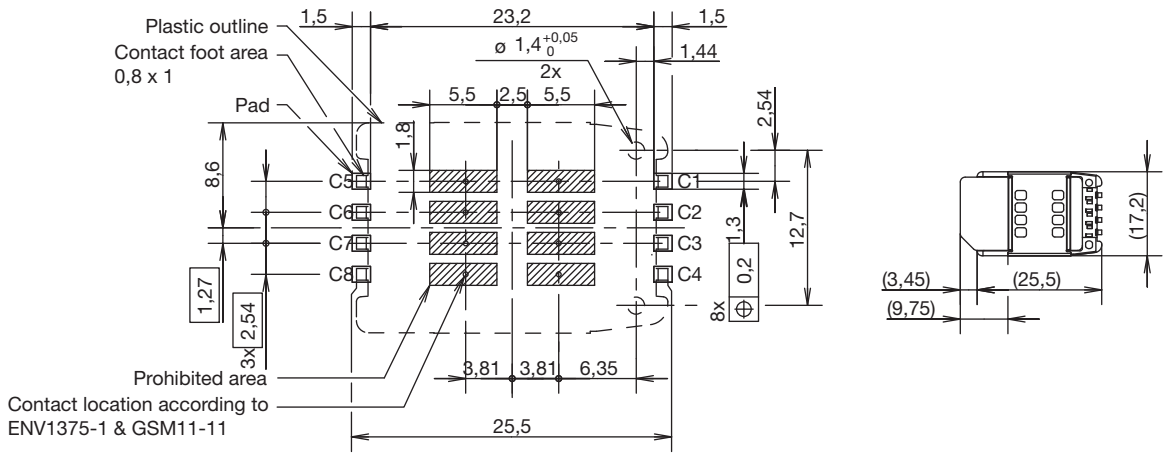
Dimensions are shown in mm
Specifications and dimensions subject to change

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CCM03-3504 LFT / CCM03-3505 LFT



RECOMMENDED PC BOARD LAYOUT
(Component side)

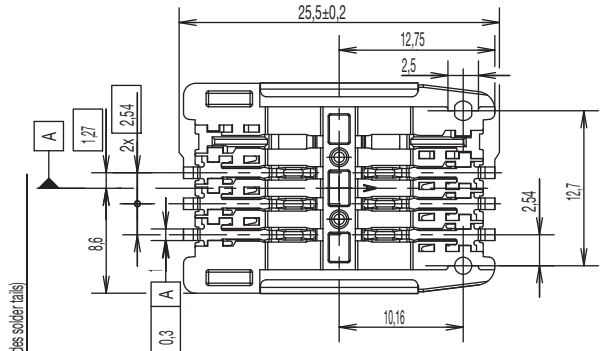


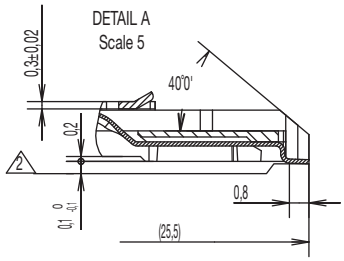
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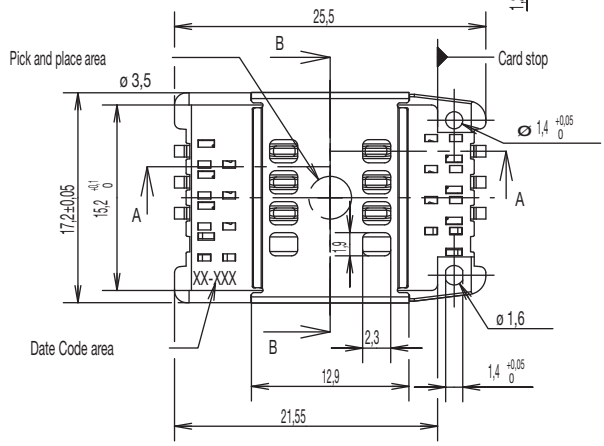
First Angle Projection

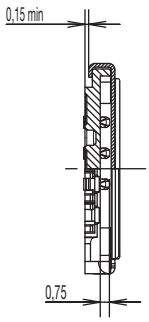
Dimensions are shown in mm
Specifications and dimensions subject to change

CCM03-3535 LFT

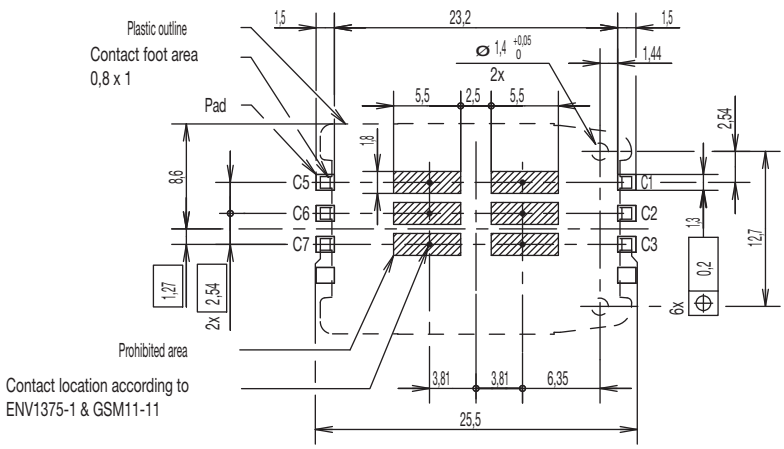


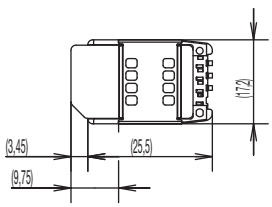






RECOMMENDED PC BOARD LAYOUT
(Component side)



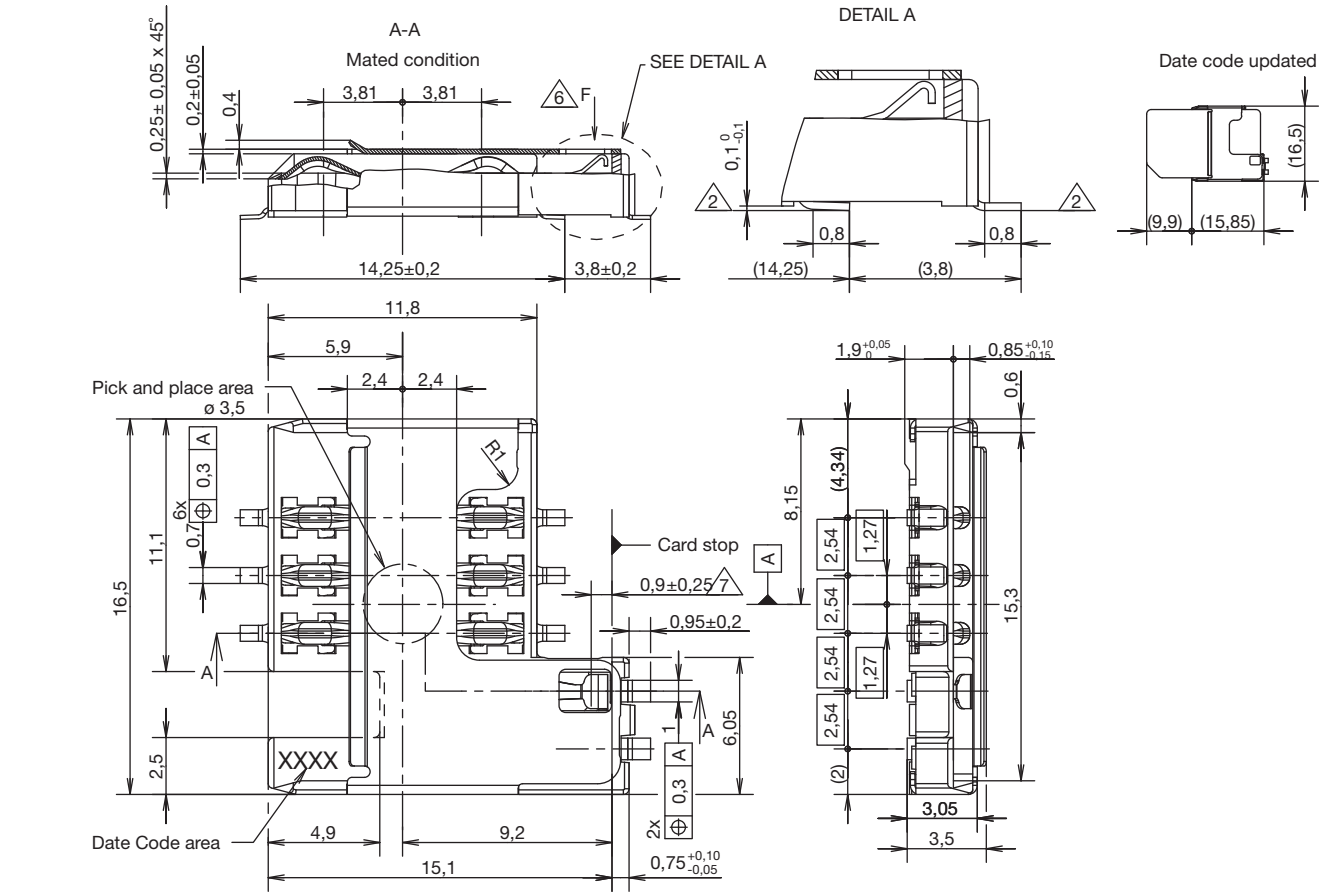


First Angle Projection

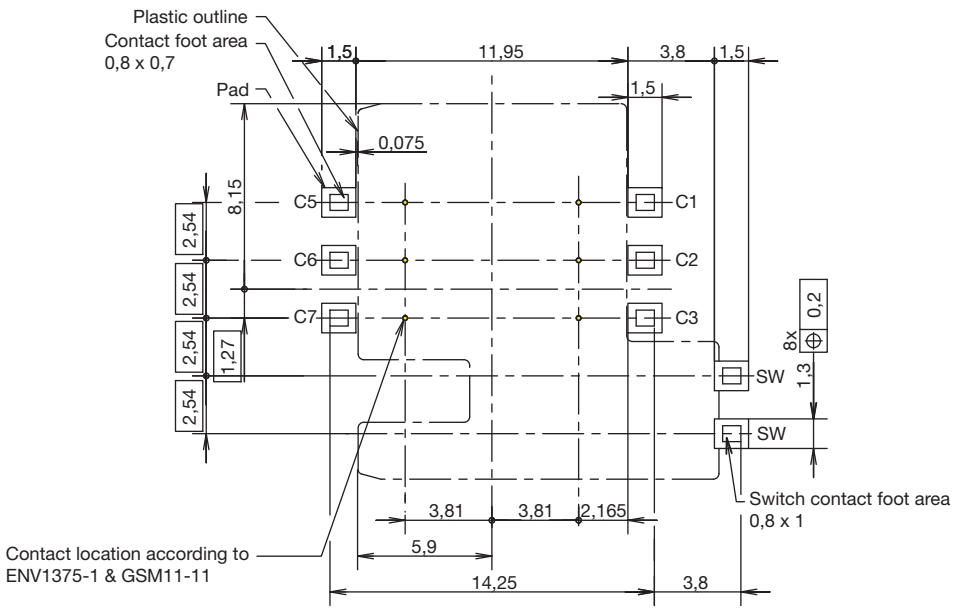
Dimensions are shown in mm
Specifications and dimensions subject to change

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CCM03-3754 LFT



RECOMMENDED PC BOARD LAYOUT
(Component side)

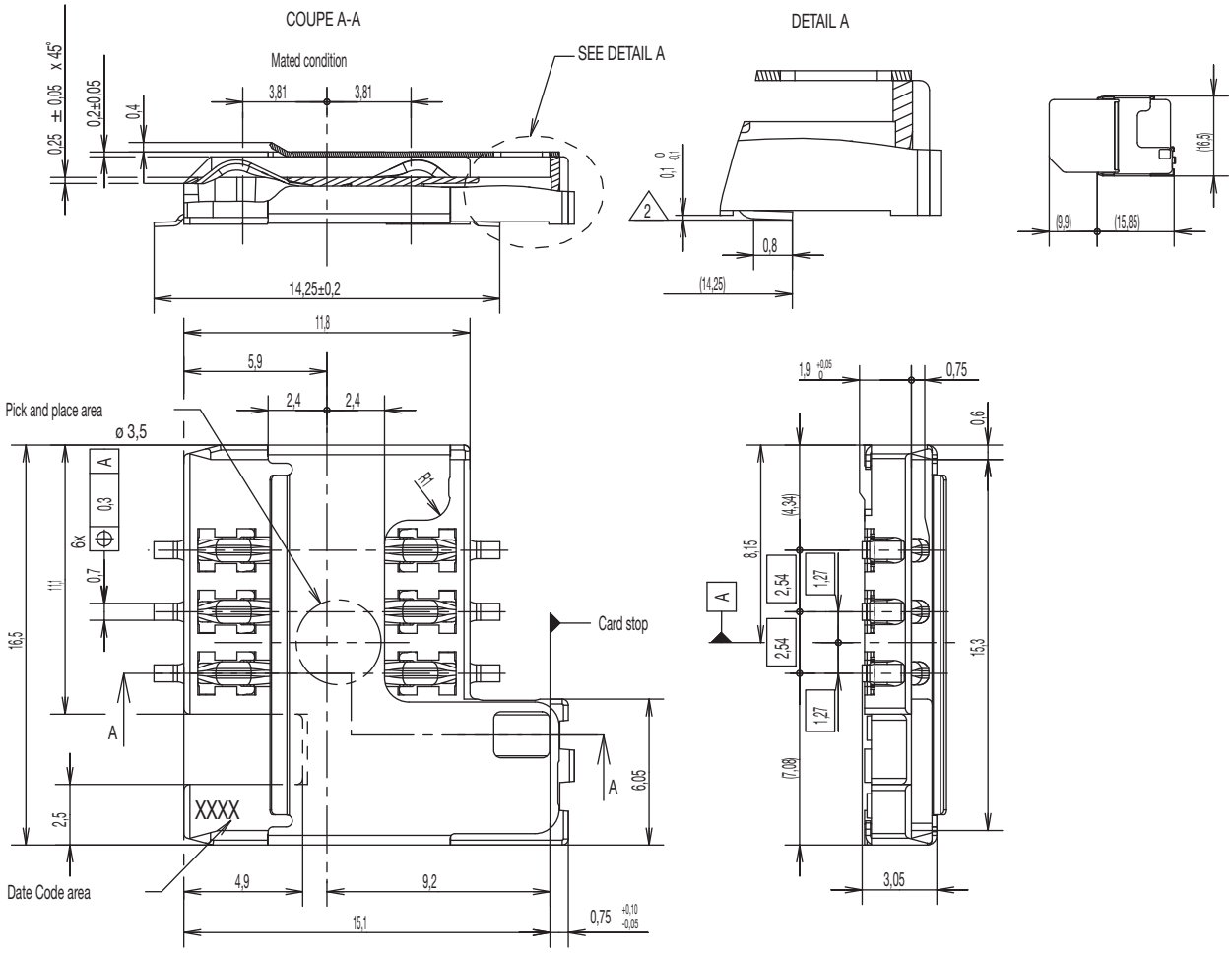


SIM/SAM

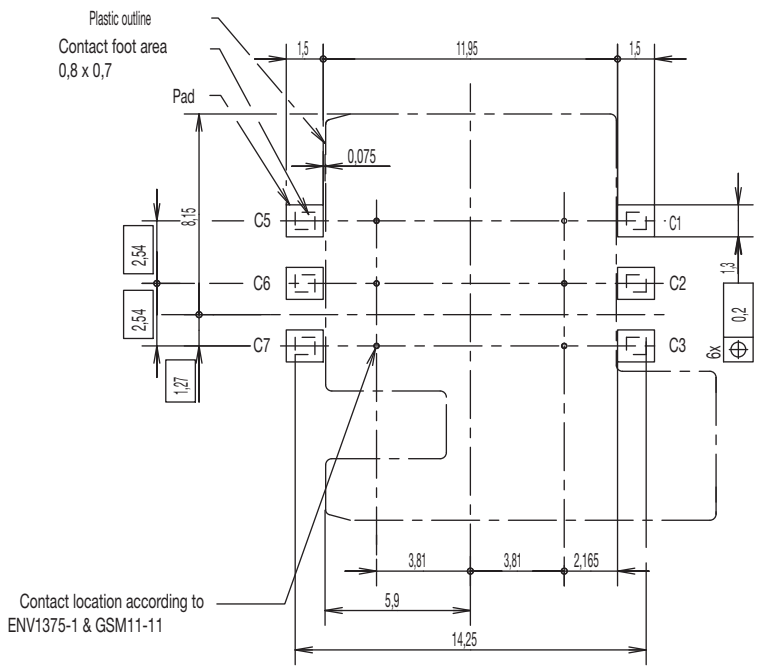
First Angle Projection

Dimensions are shown in mm
Specifications and dimensions subject to change

CCM03-3760 LFT



RECOMMENDED PC BOARD LAYOUT
(Component side)

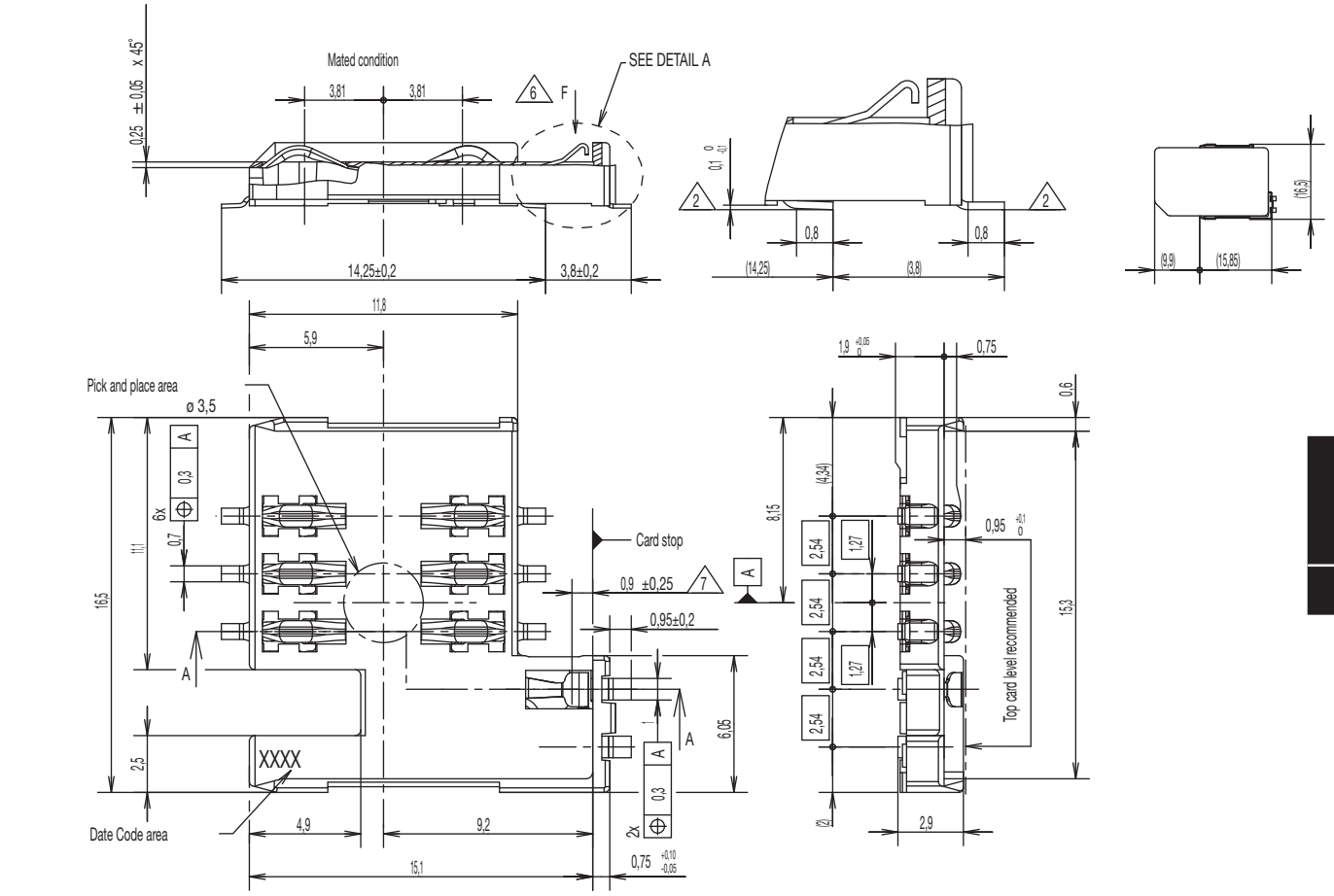


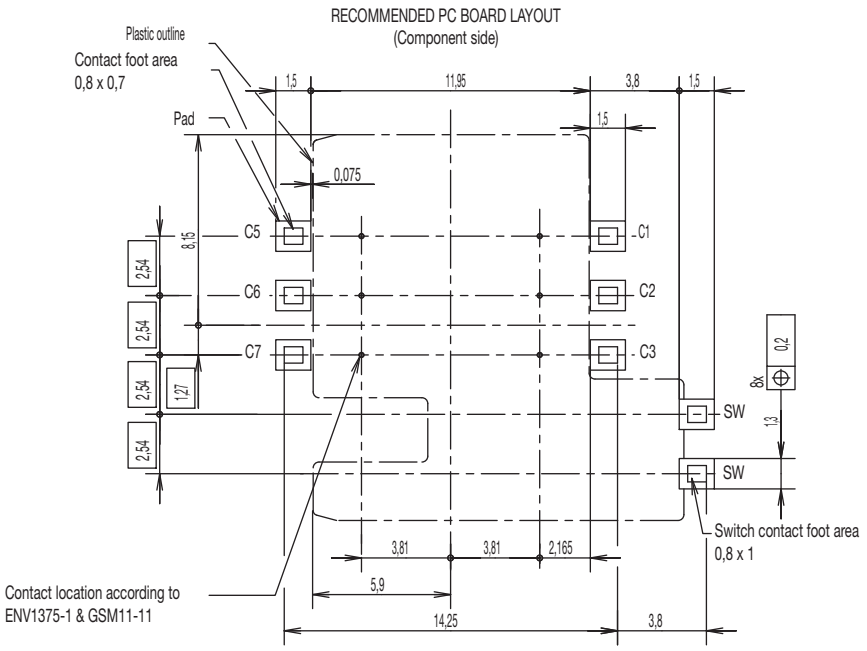
First Angle Projection

Dimensions are shown in mm
Specifications and dimensions subject to change

www.ck-components.com

CCM03-3764 LFT





First Angle Projection

Dimensions are shown in mm
Specifications and dimensions subject to change