

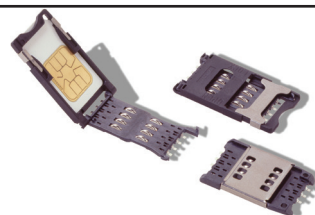
CCM03 MK2 Series

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/s ² Duration 6 hours - amplitude 0,35 mm

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 / 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



Designation	Contact Plating	Cover	# of Contacts	PCB Version	Card Presence 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		with	10,000	2,55	17,2 x 29,65	reels of 1,000 pcs
CCM03-3512LFT	gold	hinged	6	Large soldering pads*	without	10,000	2,55	17,2 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

* Can go through reflow upside down



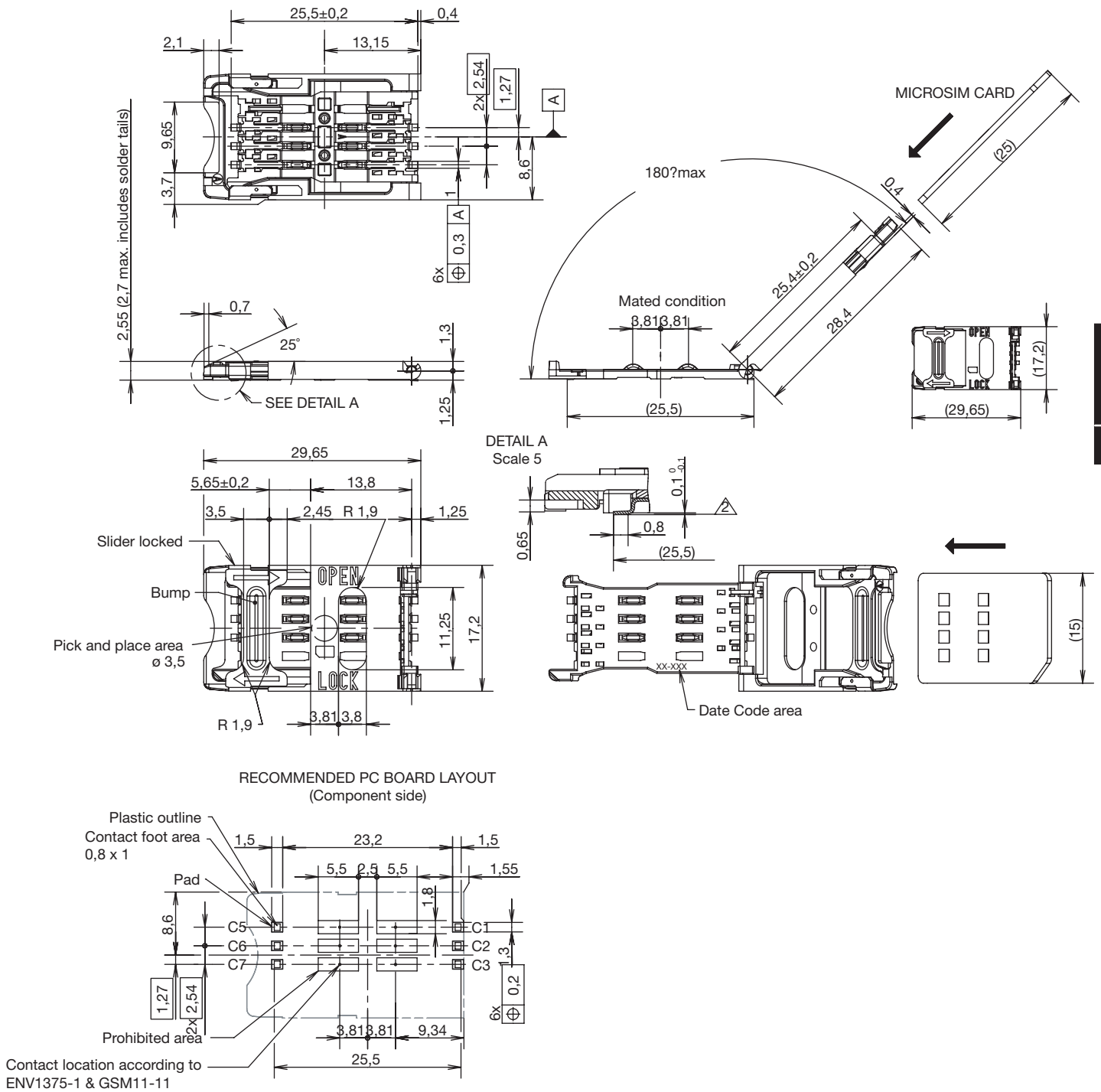
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Dimensions are shown in mm
Specifications and dimensions subject to change

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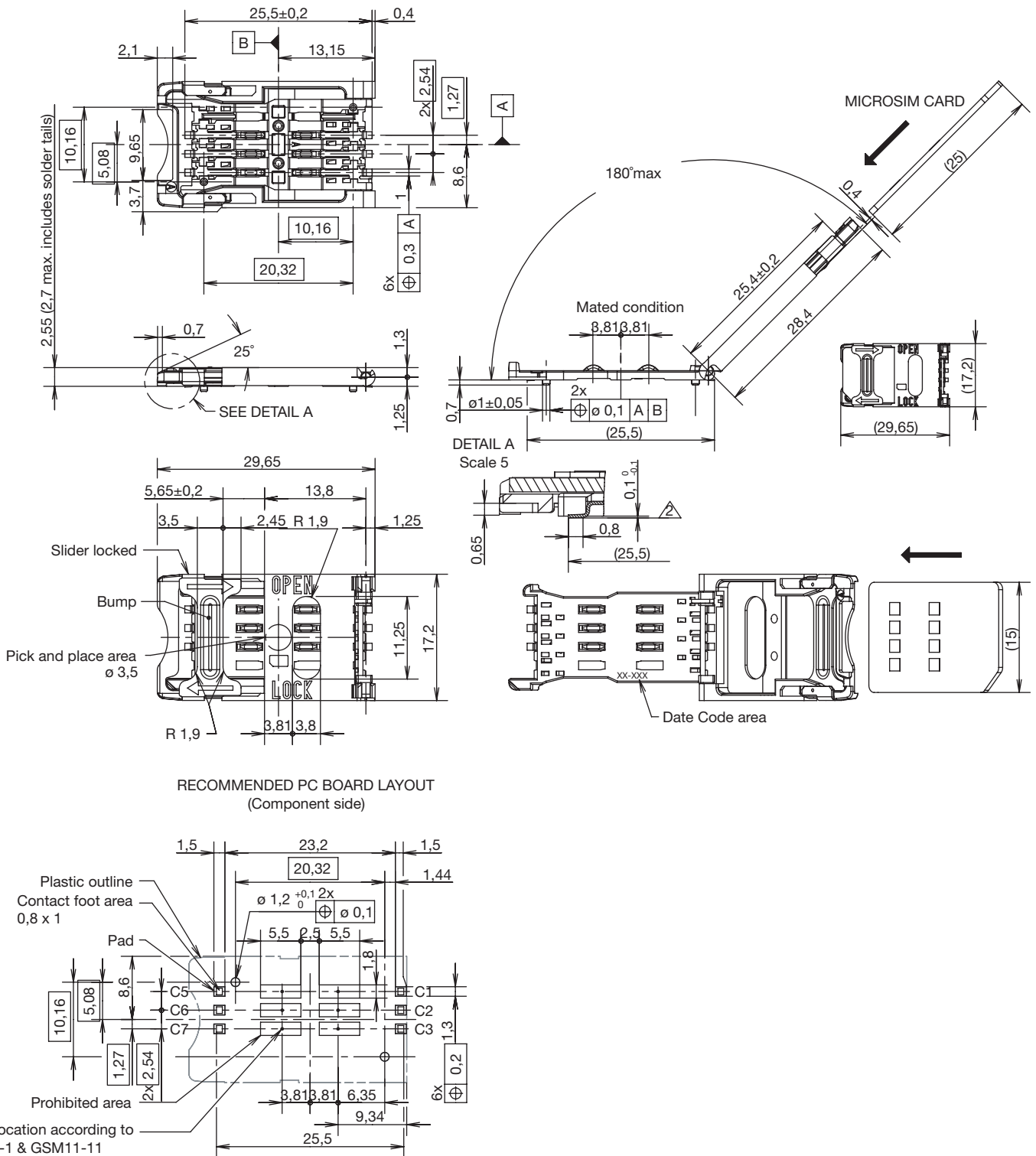
CCM03 MK2 Series

CCM03-3001 LFT / CCM03-3009 LFT



CCM03 MK2 Series

CCM03-3002 LFT / CCM03-3010 LFT

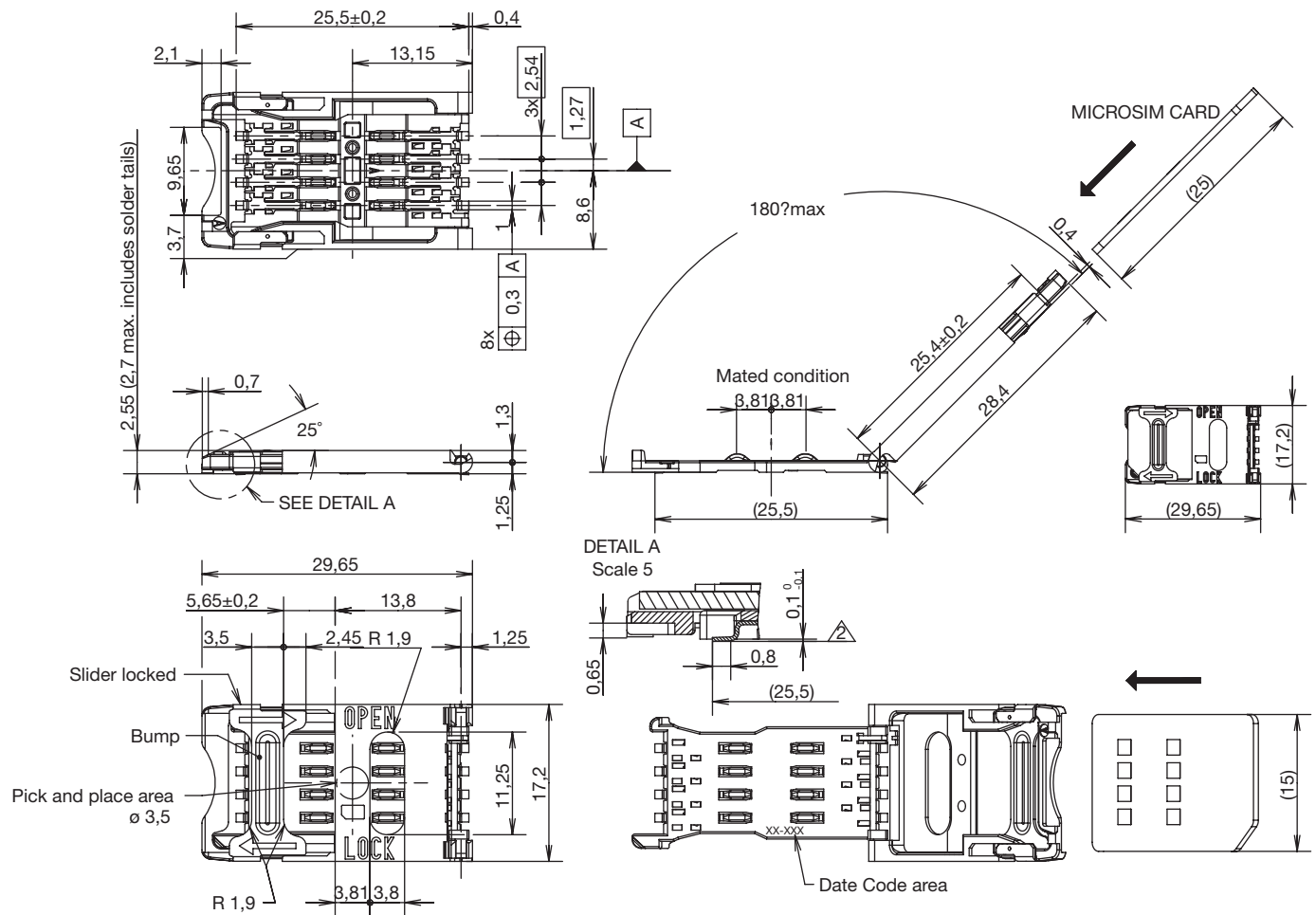


First Angle Projection

Dimensions are shown in mm
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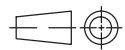
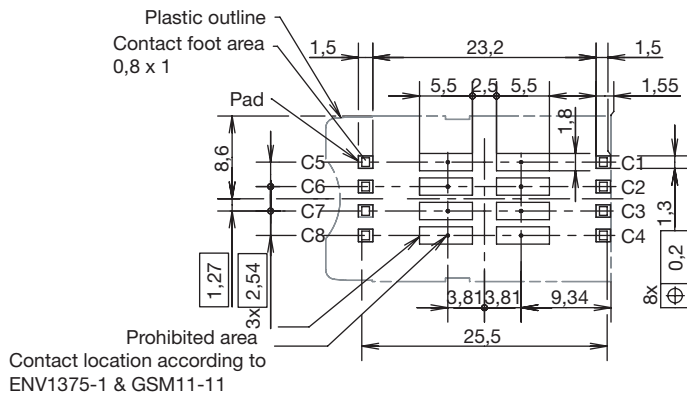
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CCM03-3003 LFT



SIM/SAM

RECOMMENDED PC BOARD LAYOUT (Component side)



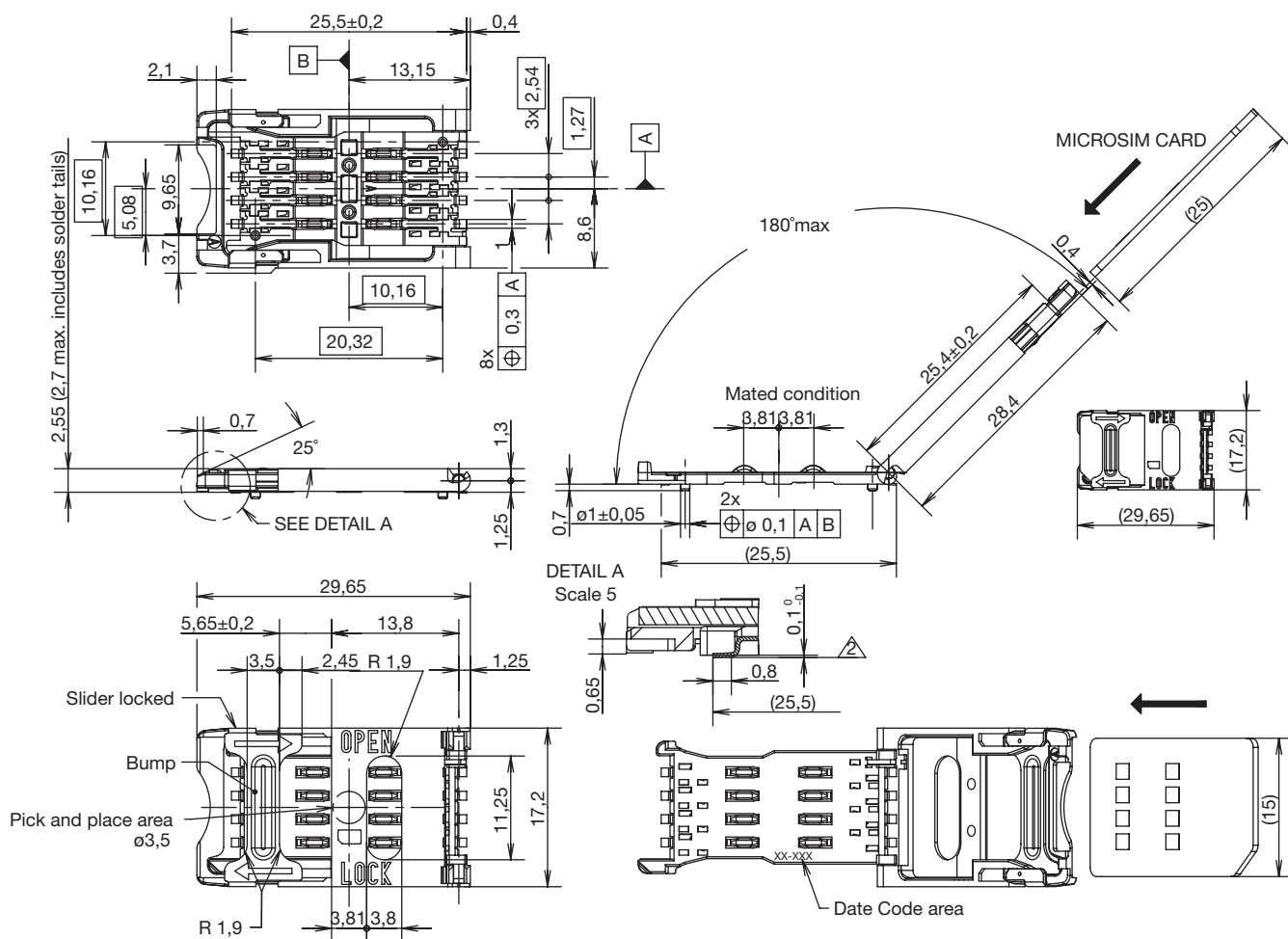
First Angle Projection

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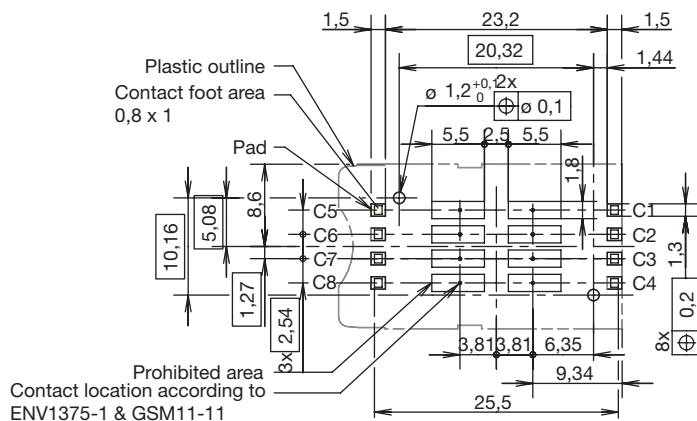
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CCM03 MK2 Series

CCM03-3004 LFT



RECOMMENDED PC BOARD LAYOUT
(Component side)



CCM03-3011 LFT



SIM/SAM

Technical drawing of a Microsim Card, showing dimensions in mm.

Top View Dimensions:

- Overall width: 25.5 ± 0.2
- Overall height: 17.2
- Pin pitch: 2.54
- Pin length: 1.27
- Pin width: 0.3
- Pin spacing: 0.3
- Pin length (8x): 0.3
- Pin length (3x): 2.54
- Pin length (1x): 1.27
- Pin length (8x): 0.3
- Pin length (3x): 2.54
- Pin length (1x): 1.27
- Pin length (8x): 0.3
- Pin length (3x): 2.54
- Pin length (1x): 1.27

Side View Dimensions:

- Overall height: 17.2
- Pin length: 11.25
- Pin width: 0.3
- Pin spacing: 0.3
- Pin length (8x): 0.3
- Pin length (3x): 2.54
- Pin length (1x): 1.27
- Pin length (8x): 0.3
- Pin length (3x): 2.54
- Pin length (1x): 1.27

Detail A (Scale 5):

- Pin length: 0.65
- Pin width: 0.8
- Pin spacing: 0.1
- Pin length (8x): 0.3
- Pin length (3x): 2.54
- Pin length (1x): 1.27
- Pin length (8x): 0.3
- Pin length (3x): 2.54
- Pin length (1x): 1.27

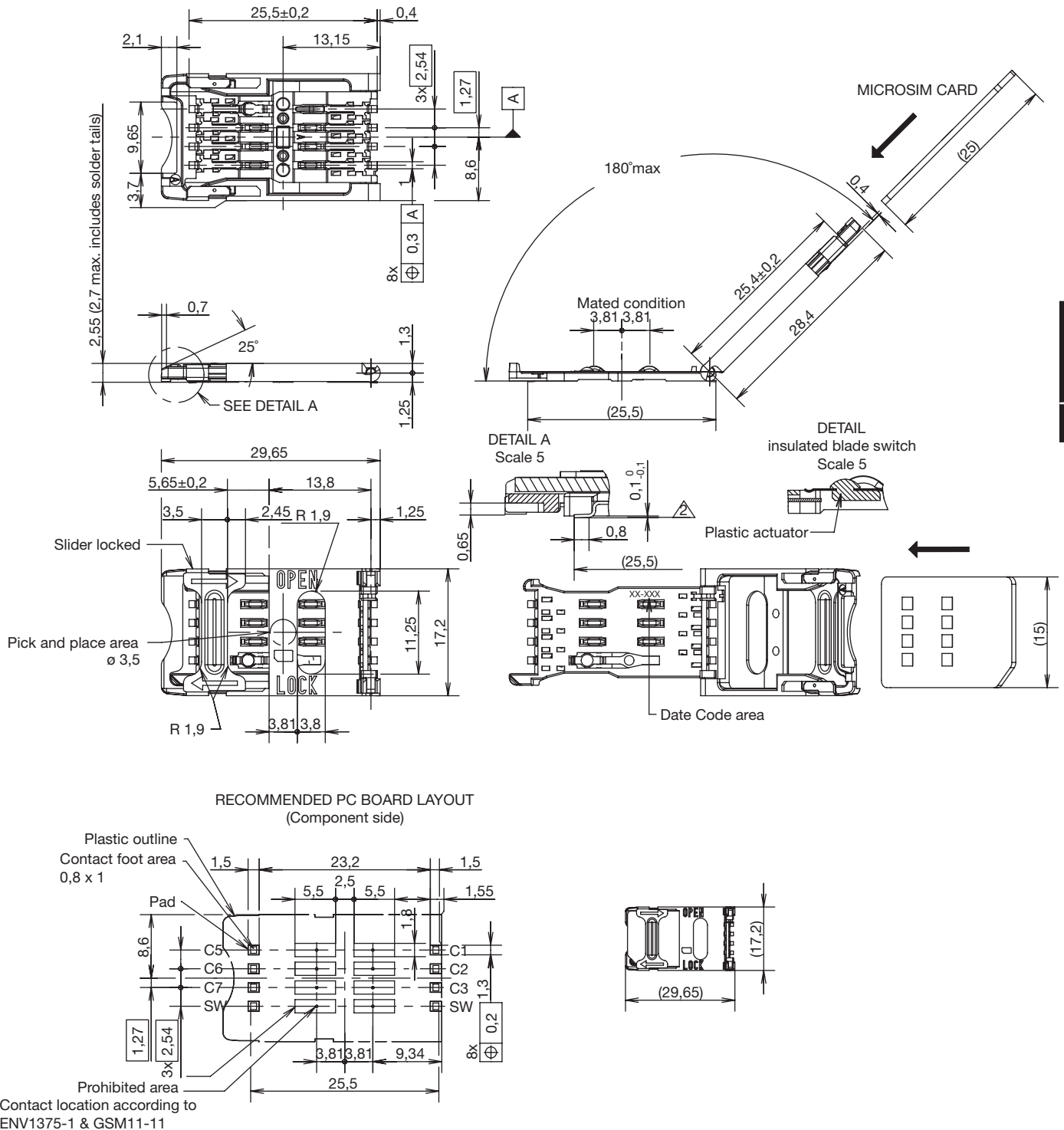
Microsim Card Dimensions:

- Overall width: 25.4 ± 0.2
- Overall height: 28.4
- Pin length: 0.4
- Pin width: 0.3
- Pin spacing: 0.3
- Pin length (8x): 0.3
- Pin length (3x): 2.54
- Pin length (1x): 1.27
- Pin length (8x): 0.3
- Pin length (3x): 2.54
- Pin length (1x): 1.27

Other Dimensions:

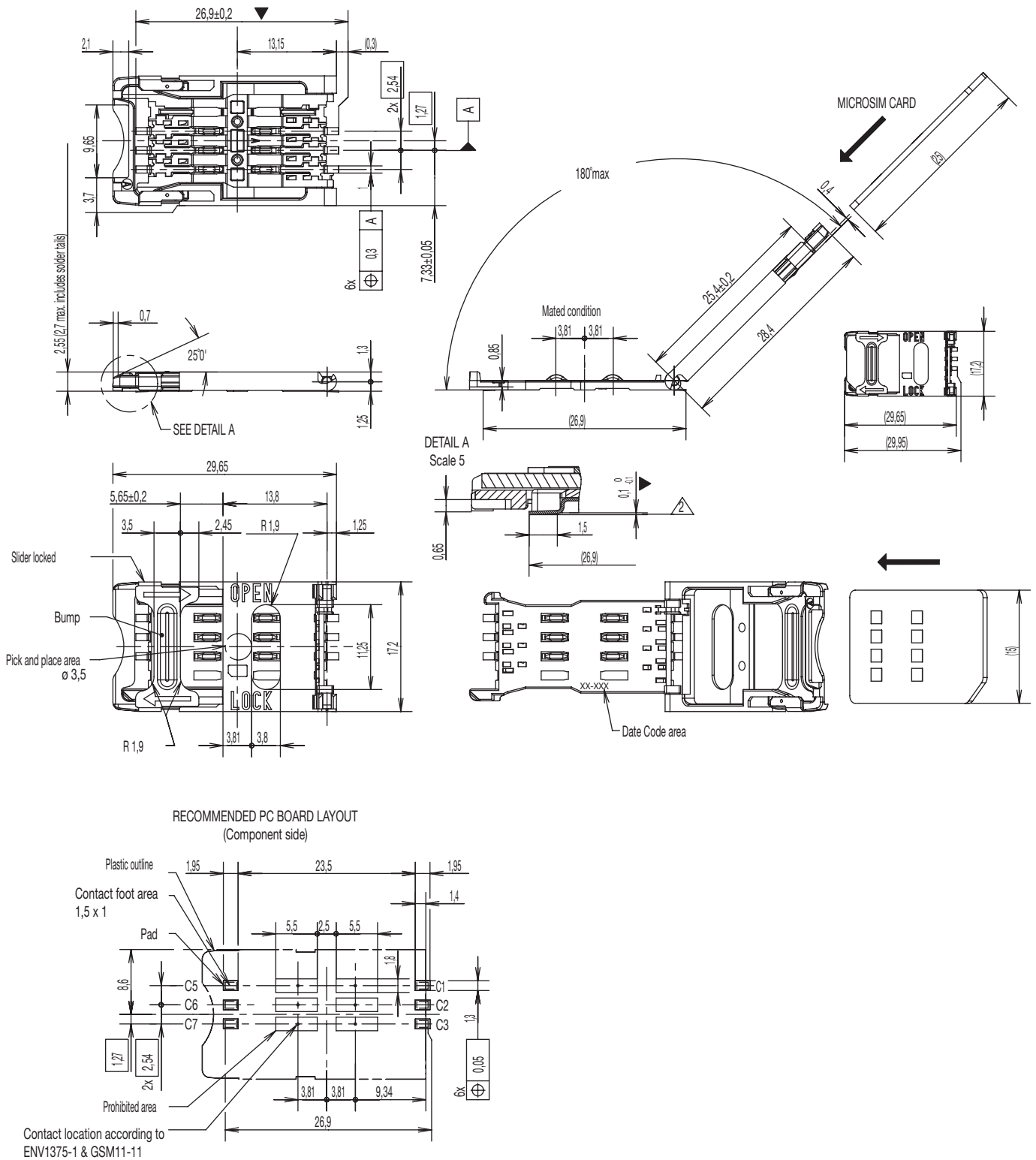
- Pin length: 0.7
- Pin width: 0.1 ± 0.05
- Pin spacing: 0.1
- Pin length (8x): 0.3
- Pin length (3x): 2.54
- Pin length (1x): 1.27
- Pin length (8x): 0.3
- Pin length (3x): 2.54
- Pin length (1x): 1.27

[illegible]



CCM03 MK2 Series

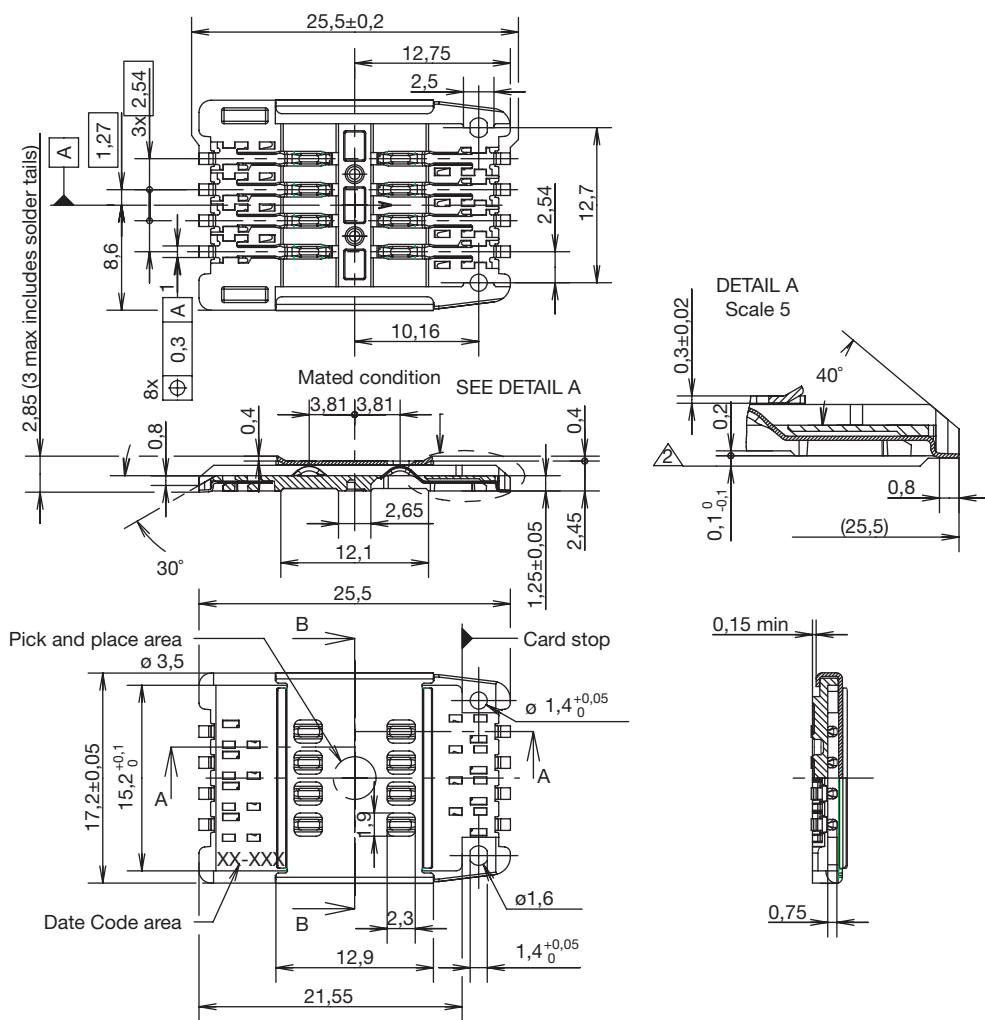
CCM03-3512 LFT



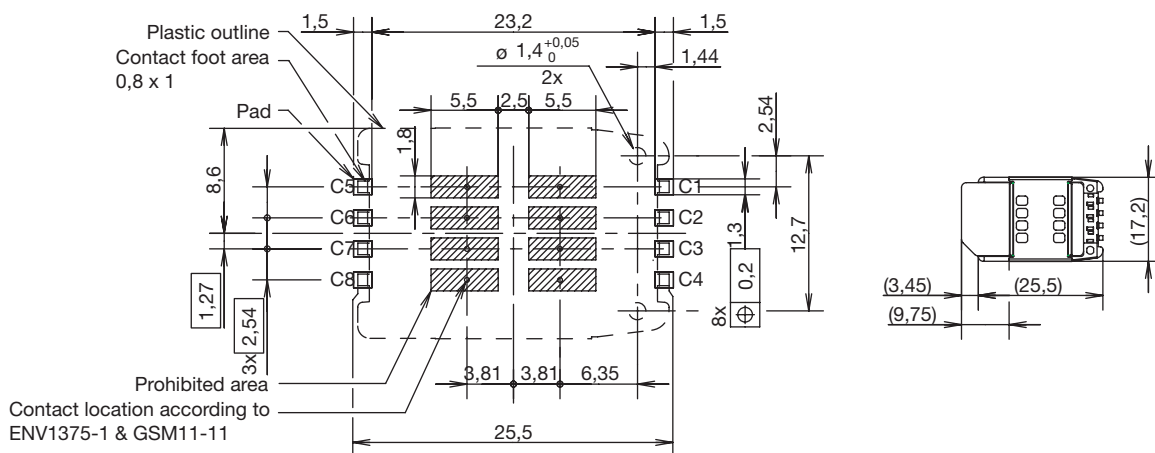
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CCM03-3504 LFT / CCM03-3505 LFT



RECOMMENDED PC BOARD LAYOUT (Component side)



Mouser Electronics

Authorized Distributor

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