# **CCM03 MK II with Auto Lock cover**



A new range of CCM03 connectors have been developed to interface with SIM/SAM cards as defined by GSM11-11 and ENV1375-1. The connectors are available with a hinged metallic cover and have been designed to provide an easier open/lock function and side card entry.

#### **Features**

- Available with 6 cross contacts which are designed to give a consistently reliable normal force over the life of the connector.
- The hinged metallic cover can automatically lock by pressure.
- Side entry of the card ensures easier positioning of the card into the connector.
- Insulated blade switch version available for detection card when cover is closed.
- The molding is polarized so that the cover can only be closed if the card is correctly inserted.
- Inspection slots allow an electrical test to be made without opening the cover.
- With tape and reel packaging as standard, the connectors are designed to be automatically pick-and-placed.
- The moldings are made from hightemperature thermoplastics suited to infrared and convection soldering processes.
- Robustly formed printed circuit tails allow a coplanarity of ± 0,05 mm to be maintained.

Construction			
Contacts	Copper alloy		
Contacts finish	Gold over nickel		
PC tail plating	Tin lead (2µ min)		
Molding	High temp. thermoplastic, UL94V-0		
Cover	Stainless steel		
Mechanical Data			
Number of Contacts	6		
Mechanical life	10,000 cycles min		
Contact force	0.35 N min / 0.50 N max		
Vibration	Frequency 10 to 500 Hz. Acceleration 50m/s <sup>2</sup> Duration 6 hours - amplitude 0.35 mm (0.014) Max electrical discontinuity 1µs		
Contact Electrical Data			
Insulation resistance	1,000 M $\Omega$ 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 m $\Omega$ max		
Dielectric strength	250 Vrms min		
Current rating	1mA min / 10m A max		
Maximum power	0.2 VA		
Environmental Data			
Operating temperature	-40°C to +85°C		
Soldering temperature	Temperature/time profile acc. to CECC00802 para. 6.1, Fig. 3 with peak temperature 250°C		
Damp heat	IEC 512 test number 11c (10 days)		
Salt mist	IEC 512 test number 11f (96 hours)		

#### **Ordering Code**

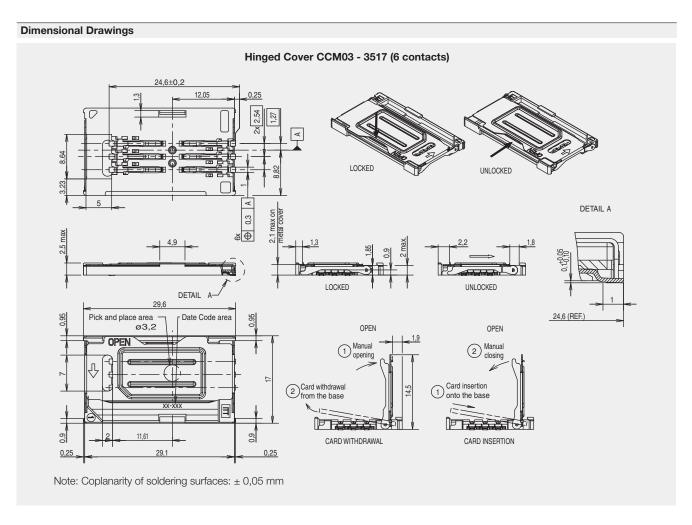
Part Number	Number of Contacts	Cover	Card Presence Switch	Quantity per reel
CCM03-3517	6	Side Hinged	No	1300
CCM03-3518	6	Front Hinged	Yes (insulated)	1300
CCM03-3529	6	Front Hinged	No	1300

### Packaging

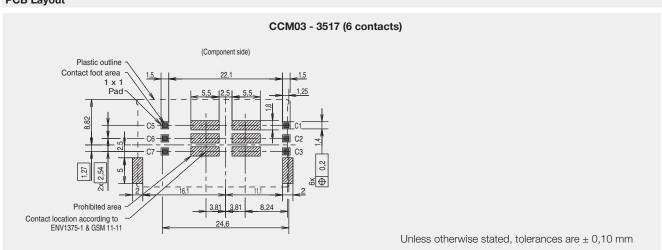
5 reels per box.



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### **PCB** Layout

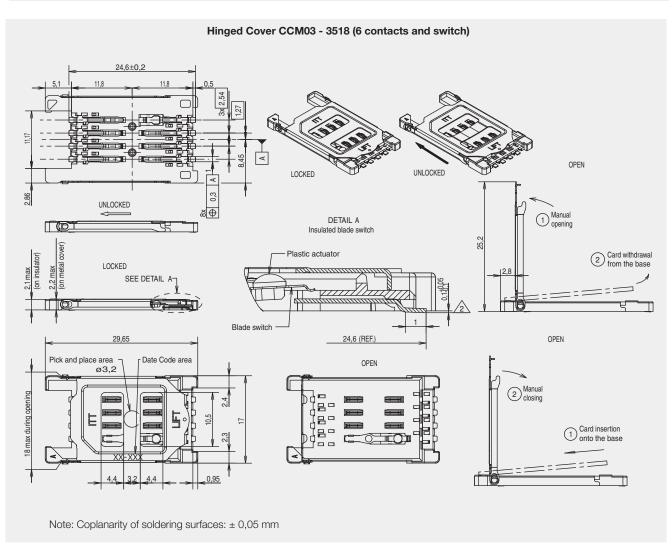




Dimensions are shown in mm Specifications and dimensions subject to change

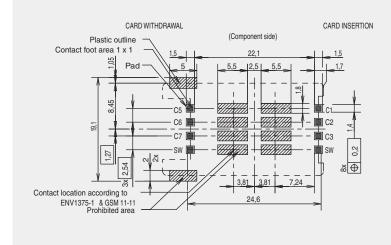
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#### **Dimensional Drawings**



## PCB Layout

CCM03 - 3518 (6 contacts and switch)
CCM03-3529 (without switch) layout is similar except SW pads



Unless otherwise stated, tolerances are  $\pm$  0,10 mm

