

The CCM02 MK II connectors with landing contacts are dedicated for applications where the reader usage is high and the life span of the card is a key consideration. A connector with contacts which land on the card, rather than slide over it, should be specified so as to minimize card wear. The CCM02 has been redesigned to give an even higher performance in a compact, affordable package.

### Features

- 500,000 card insertion cycles.
- The contacts do not touch the card until it is almost fully inserted – A minimal wiping action removes any non-conductive material.
- The connector has been designed to give a positive indication once the card has been fully inserted.
- The reduced size of the contact base saves PCB space, making the connector more stable during surface mounting, and creates an air gap between the contacts and card entry slot, which reduces the risk of an electrostatic transfer to the PCB.
- For added reliability, the integrated card end-travel switch, which is normally open, is sealed against dust and grit.
- By using an inlay finish in the contact area, the life of the precious metal is extended by more than 10 times that of standard gold plating.
- The contact area is spooned to reduce the risk of accidental (or deliberate) damage and to optimize the electrical connection with the card.
- Snap-locks underneath the molding position and hold the connector on the PCB, and give additional support to the contact terminals.
- The plastic moldings are made from a high temperature thermoplastic suited for infrared and convection soldering processes.

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Construction				
Contacts	Copper alloy			
Plating	Contact area : Gold alloy inlay Terminals: Tin lead (2µ min)			
Moldings	High temp. thermoplastic UL 94V-0 rated			
Spring	Stainless steel			
Card detection switch actuator	Stainless steel			
Mechanical Data				
Number of Contacts	8			
Mechanical life	500,000 cycles min			
Card insertion force	10 N max			
Card extraction force	1 N min / 10 N max			
Contact force	0.25 N min / 0.5 N max			
Card detection switch actuation force	0.8 N max for actuation (end travel switch actuates when card is 1,0 mm from card stop) 1.8 N max for complete depression			
Vibration	Frequency 10 to 500 Hz. Acceleration 50m/s <sup>2</sup> Duration 6 hours - amplitude 0,35 mm Max electrical discontinuity 1µs			
Shock	Peak value 500 m/s <sup>2</sup> – Duration 11 ms 3 shocks in each direction of each axis Max electrical discontinuity 1 µs			
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			
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)			
Card detection switch	Sealed IP 54			
Ordering Code				
Part Number	Number of Contacts	Termination Tails Design	PCB Locating	Packaging Multiple
CCM02-2503	8	Through Hole	4 Board Lock (PCB 1.6 mm thick)	300
CCM02-2504	8	SMT	4 Board Lock (PCB 1.6 mm thick)	300
CCM02-2508	8	SMT	2 Pegs	300
CCM02-2511	8	Through Hole	4 Pegs	300
CCM02-2512	8	SMT	4 Pegs	300
CCM02-2758	8	SMT	2 Pegs (without cover)	300
CCM02-2763	8	SMT	4 Board Lock + 2 Pegs	300
CCM02-2765	8	Through Hole	4 Board Lock (PCB 1mm thick)	300
CCM02-2766	8	SMT	4 Board Lock (PCB 1mm thick)	300
Packaging				

30 per tray, 10 trays per box.

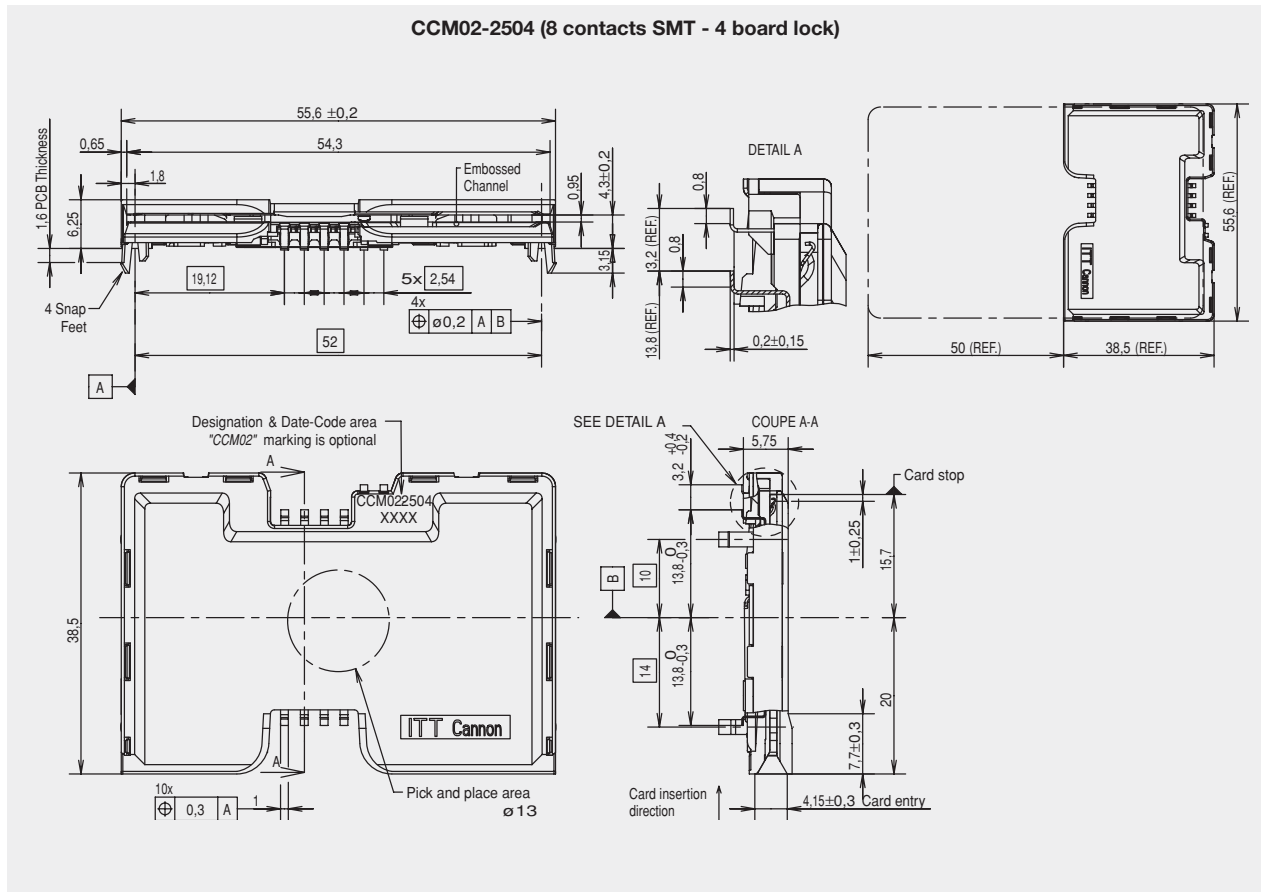
Cannon

Dimensions are shown in mm  
Dimensions subject to change

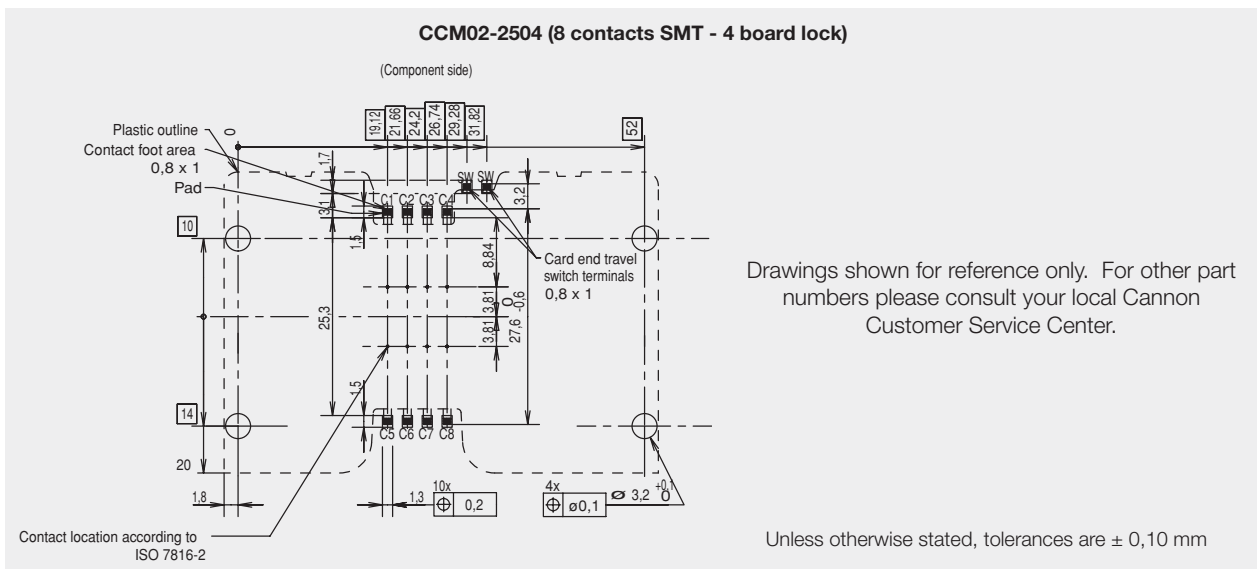
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# CCM02 MK II

## Dimensional Drawings



## PCB Layout



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