

Construction



EMV[™] compatible

The CCM01 MK II connectors with fixed contacts have been developed for applications where a landing contact mechanism is not required but performance and reliability are still key considerations.

Features

- Available with 8 contacts which are designed to give a consistently reliable normal force over the life of the connector.
- For added reliability, the card detection switch (which is normally open) is sealed against dust and debris.
- Available with through-hole or surface mount contact termination and its lightweight design means that the connector can be automatically pick-and-placed.
- The moldings are made from high temperature thermoplastics suited for infrared and convection soldering processes.
- Plastic springs in the cover give a positive feel as the card is fully inserted. In case of special version with low card insertions and withdrawal, then the CCM connector is supplied without this spring effect.
- · The reduced size of the contact base saves PCB space, making the connector more stable during soldering. This creates an air gap between the contacts and card entry slot which reduces the risk of an electrostatic transfer to the PCB.
- 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.
- A chamfered opening to the card entry slot improves the card guidance into the connector.
- The contact area is spooned to reduce the risk of accidental (or deliberate) damage and to optimize the electrical connection with the card.
- Robustly formed printed circuit tails allow a coplanarity of \pm 0.05 mm to be maintained.

Contacts Copper alloy **Plating** Contact area: Gold alloy inlay Terminals: Tin lead (2µ min) High temp. thermoplastic UL 94V-0 rated Moldings Card detection switch Stainless steel and copper alloy **Mechanical Data** Number of Contacts Mechanical life 100,000 cycles min Card insertion force 10 N max Card extraction force 1 N min /10 N max (4N max for CCM01-2253, 2255) Contact force 0.25 N min / 0.50 N max Card detection switch 0.8 N max for actuation (end travel switch actuation force actuates when card is 0,9 mm from card stop); 1.8 N max for complete depression Frequency 10 to 500 Hz. Acceleration 50m/s² Duration 6 hours - amplitude 0,35 mm; Vibration Max electrical discontinuity 1µs Shock Peak value 500 m/s² - Duration 11 ms 3 shocks in each direction of each axis; Max electrical discontinuity 1 µs **Contact Electrical Data**

MΩ min I max nin / 1 A max ns min		
nin / 1 A max		
ns min		
Normally open		
100 mΩ max		
250 Vrms min		
1 mA min / 10 mA max		

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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 against dust

Ordering Code				
Part Number	Number of Contacts	Termination Tail Design	Retention Force	Packaging Multiple
CCM01-2064	8	THT w/board lock	<10N	300
CCM01-2065	8	SMT w/board lock	<10N	300
CCM01-2251	8	SMT	<10N	300
CCM01-2253	8	SMT	<4N	300
CCM01-2255	8	Through-hole	<4N	300

Packaging

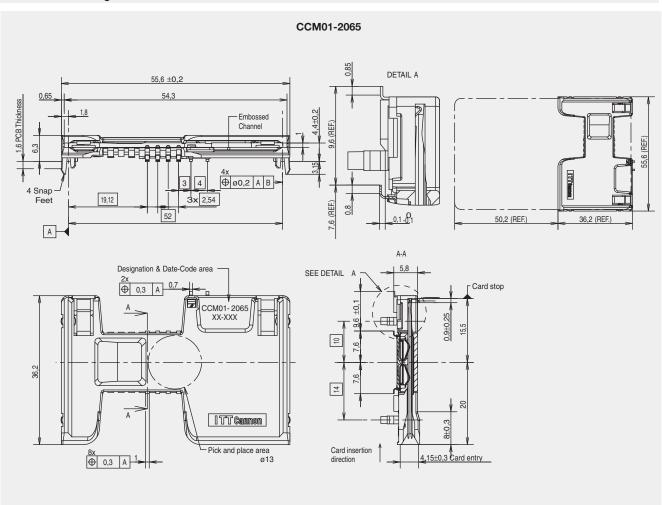
30 per tray, 10 trays per box.

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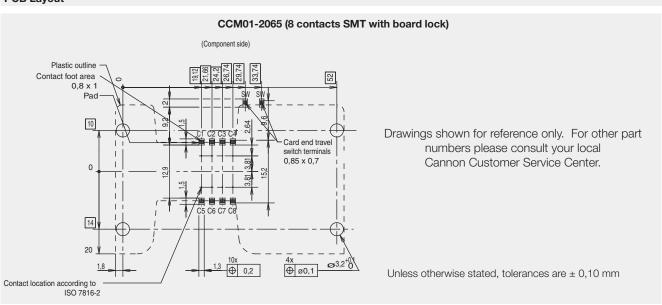


Dimensions are shown in mm Specifications and dimensions subject to change

Dimensional Drawings



PCB Layout





Dimensions are shown in mm Specifications and dimensions subject to change

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