

Excellent Integrated System Limited

Stocking Distributor

Click to view price, real time Inventory, Delivery & Lifecycle Information:

C&K Components CCM01-2252

For any questions, you can email us directly: <u>sales@integrated-circuit.com</u>

Distributor of C&K Components: Excellent Integrated System Limited

Datasheet of CCM01-2252 - CONN SMART CARD PUSH-PULL R/A

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CCM01 MK I



CCM01 MK I connectors have fixed contacts and a blade card detection switch (not sealed).

These connectors are intended for applications where the card usage is relatively low and the environment is benign.

Features

- Available with 8 or 16 through hole contacts.
- A normally closed blade switch
 detects when the card is fully inserted.
- Snap in boardlocks hold the connector in place prior to soldering.

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Frequency 10 to 500 Hz. Acceleration 50m/s Duration 6 hours - amplitude 0.35 mm (0.014) Max electrical discontinuity 1µs			
Peak value 500 m/s ² – Duration 11 ms 3 shocks in each direction of each axis Max electrical discontinuity 1 µs			
100 mΩ max			
10 µA min / 1 A max			
750 Vrms min			
Normally closed			
250 Vrms min 1 mA min / 10 mA max			
0.2 VA			
0 days)			
0 days)			
6 hours)			
ng Multiple			
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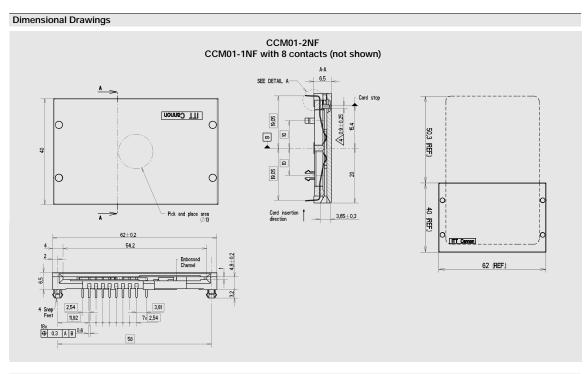
Dimensions are shown in mm Dimensions subject to change

www.ittcannon.com/ccm

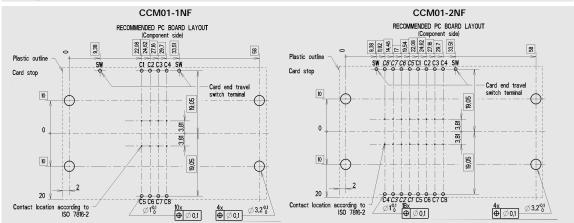
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CCM01 MK I







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CCM01 MK II



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 or 16 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 pickand-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, makes the connector more stable during soldering and creates an air gap between the contacts and card entry slot, so reducing 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 ±0.05 mm to be maintained.



Construction					
Contacts			Copper alloy		
Plating			Contact area : Gold alloy inlay		
5		Tern	ninals : Tin lead (2µ	min)	
Moldings			High temp. thermoplastic UL 94V-0 rated		
Card detection switch			Stainless steel and copper alloy		
Mechanical data					
Number of Contacts			8 or 16		
Mechanical life		100	100,000 cycles min		
Durability of inlay		5,00	5,000 cycles min (see note 1)		
Card insertion force			10 N max		
Card extraction force			1 N min / 10N max (4N max for CCM01-2253, 2254, 2255, 2256)		
Contact force			0.25 N min / 0.50 N max		
Card detection swit	ch		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		
Vibration			Frequency 10 to 500 Hz. Acceleration 50m/s Duration 6 hours - amplitude 0.35 mm Max electrical discontinuity 1µs		
Shock Peak value 500 m/s ² – Duration				Duration 11 ms	
			3 shocks in each direction of each axis		
		IVIAX	electrical discontin	uity i µs	
Electrical data					
Insulation resistance			$00 M\Omega$ min		
Contact resistance max			m Ω max		
Switching current			10 µA min / 1 A max		
Dielectric strength			750 Vrms min		
Card detection swi			Normally open		
Rc card detection s	switch	100	m Ω max		
Dielectric strength	ch	250	Vrms min		
card detection switch Switch current rating			A min / 10 mA max		
		0.2			
Maximum switch p		0.2	VA		
Environmental da					
Operating tempera			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			512 test number 1	1f (96 hours)	
Card detection swi	ich	Sea	led against dust		
Part Number	N° of Contacts	Termination Tail Design	Retention Force	Packaging Multiple	
CCM01-2065	8	SMT w/board lock	<10N	300	
CCM01-2067	16	SMT w/board lock	<10N	300	
CCM01-2251	8	SMT	<10N	300	
CCM01-2252	16	SMT	<10N	300	
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CCM01-2251	8	SMT	<10N	300			
CCM01-2252	16	SMT	<10N	300			
CCM01-2253	8	SMT	<4N	300			
CCM01-2254	16	SMT	<4N	300			
CCM01-2255	8	Through hole	<4N	300			
CCM01-2256	16	Through hole	<4N	300			
Packaging							

Packaging

30 per tray, 10 trays per box. Order multiple 300

Note 1: Inlay (precious metal) rating is based on a very abrasive card being used and is intended to represent worst case.

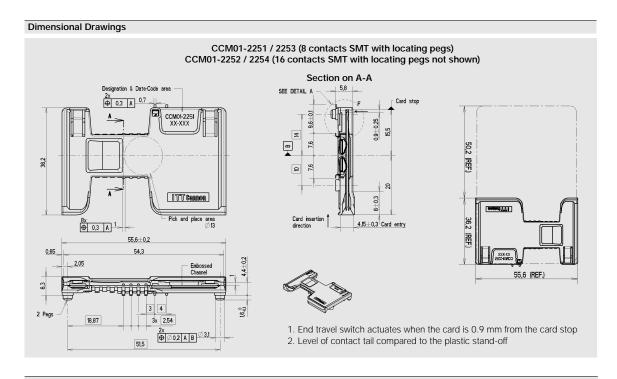
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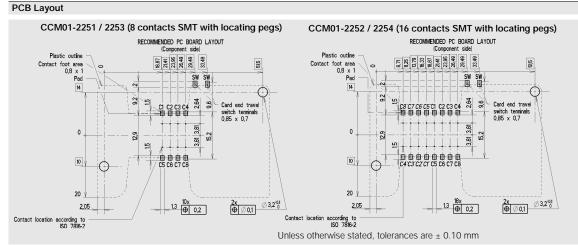
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CCM01 MK II





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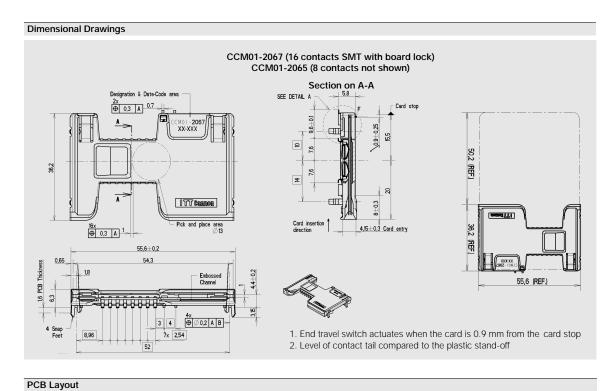
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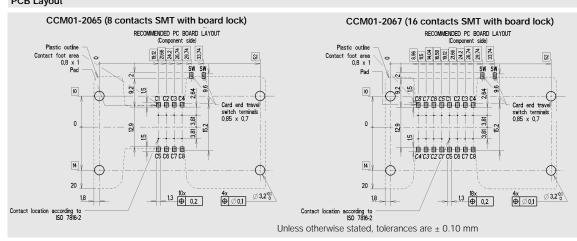
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CCM01 MK II





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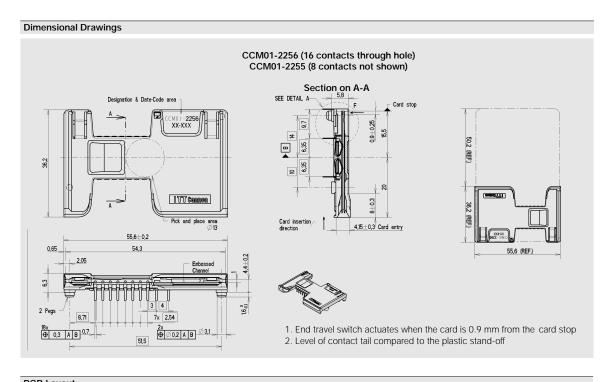
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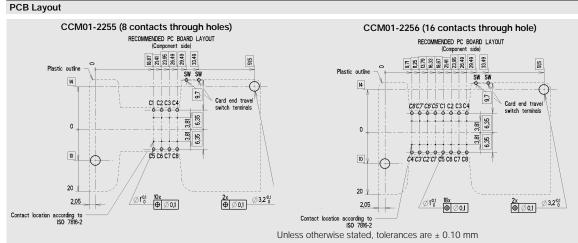
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CCM01 MK II





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