

The CCM05 MKI is a connector for MultiMediaCards.

These cards have been developed as small form factor memory cards with ROM and RAM capabilities.

The CCM05 MKI connector provides the physical interface between the card and the printed circuit board.

#### **Features**

- Two of the seven contacts are set forward to allow hot insertion (ground and supply voltage contacts)
- The fixed metal cover holds the card in place and includes two solder tabs to help fix the connector to the PCB.
- Every effort has been made to minimize the outer dimensions of the connector to save PCB space, including the terminals location on the inside of the connector.
- 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 spooned contact is shaped so as to optimize the electrical connection with the card and prevent the contact from catching on sharp edges.
- The insulator, which is molded from a high temperature thermoplastic, is suited to infrared and convection soldering processes.
- With tape and reel packaging as standard, the connectors are designed to be automatically picked & placed.



 CCM05 MKII compatible with MultiMediaCard (MMC) and Secure Digital Memory Cards (SD).

Construction			
Contacts	Copper alloy		
Plating	Contact area : Gold alloy inlay		
	Terminals : Tin lead (2µ min)		
Moldings	High temp. thermoplastic UL 94V-0 rated		
Mechanical data			
Number of Contacts	7		
Mechanical life	10,000 cycles min		
Durability of inlay	5,000 cycles min (see note 1)		
Card insertion force	3 N max		
Card extraction force	0.8 N min / 3 N max		
Contact force	0.25 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		
	Max electrical discontinuity 1µs		
Shock	Peak value 500 m/s² – Duration 11 ms		
	3 shocks in each direction of each axis		

Electrical data	
Insulation resistance	1,000 MΩ min
Contact resistance max.	100 mΩ min
Switching current	10 μA min / 1 A max
Dielectric strength	750 Vrms min

Max electrical discontinuity 1 µs

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	N° of Contacts	Cover	PCB Locating	Quantity per reel
CCM05-5501	7	Standard	No	900
CCM05-5502	7	Standard	Yes	900
CCM05-5503*	7	Long cover	No	900
CCM05-5504*	7	Long cover	Yes	900

#### Packaging

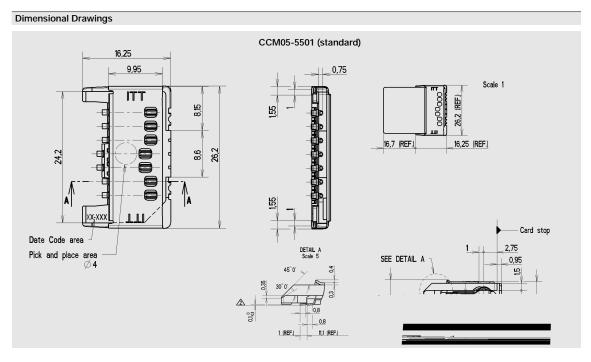
900 pieces per reel, 5 reels per box.

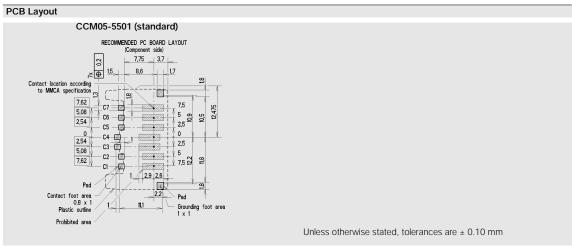
Note 1: Inlay (precious metal) rating is based on a very abrasive card being used and is intended to represent worst case.

\*On request. Depending on quantities.



Dimensions are shown in mm Dimensions subject to change

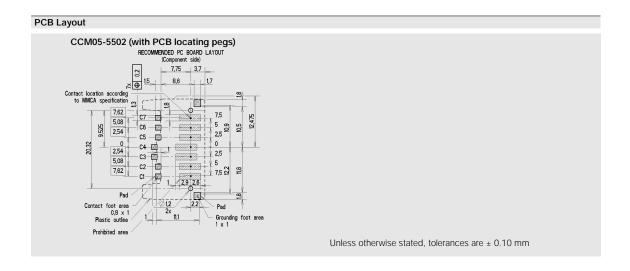






Dimensions subject t

### **Dimensional Drawings** CCM05-5502 (with PCB locating pegs) 16,25 0,75 9,95 Scale 1 ITT (REF.) 16,7 (REF.) 16,25 (REF.) 26,2 8,6 Date Code area 2,75 Pick and place area Ø 4 SEE DETAIL A īί



1 (REF.) 11,1 (REF.)



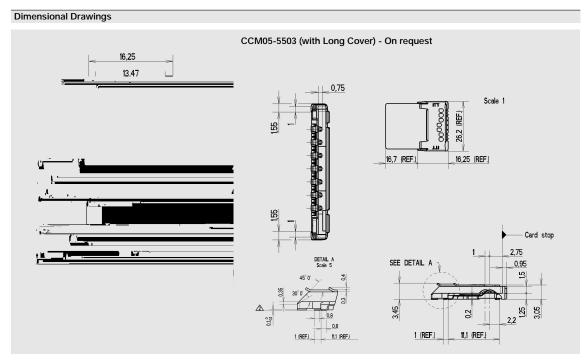
Dimensions are shown in mm Dimensions subject to change

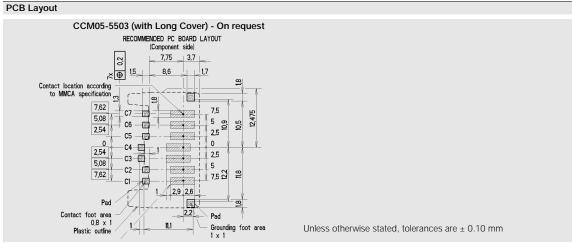
305

0,7

11,1 (REF.)

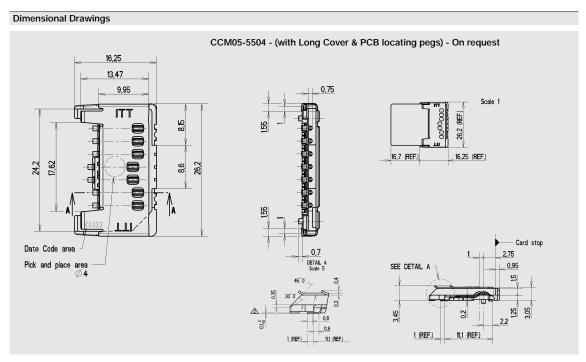
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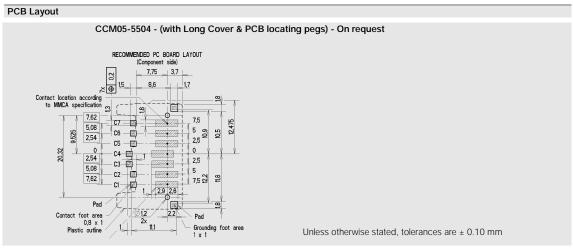






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