

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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Features

- · Operating life 500,000 cycles
- Insertion force 40N
- EMV
- PCI & PCI ready
- · Card detection sealed switch

Typical Applications

- Transaction
- Identification
- POS

Mechanical

Number of Contacts Mechanical life Card insertion force Card extraction force

Contact force
Card detection switch

Vibration Frequency

Max elect. discontinuity Shock

May elect disco

Snock

ots 8

500,000 cycles min 10N to 40N 1N min / 10N max 0,2N / 0,50N max

0,8 N max for actuation (end travel switch actuation force actuates when card is 0,9mm

from card stop)

1,8 N max for complete depression 10 to 500 Hz. Acceleration 50m/s² Duration 6 hours - amplitude 0,35mm

Peak value 500 m/s² – Duration 11 ms 3 shocks in each direction of each axis

Packaging

Tray 30 parts / Cartons 300 parts Reel 120 parts

Soldering

Compatible with lead free reflow soldering process For version with security cover, please contact Customer Service for soldering recommendations.

Contact Electrical Data

 $\begin{array}{ll} \mbox{Insulation resistance} & 1,000 \ \mbox{M}\Omega \ \mbox{min} \\ \mbox{Resistance} & 100 \ \mbox{m}\Omega \ \mbox{max} \\ \mbox{Current rating} & 10 \ \mbox{\mu A min} \ / \ 1 \ \mbox{A max} \\ \mbox{Dielectric strength} & 750 \ \mbox{Vrms min} \end{array}$

Switch Electrical Data

Maximum power 0.2 VA

Environmental Data

Operating temperature
Damp heat
Salt mist
Card detection switch

RoHS compliant

-40°C to +85°C IEC 512 test number 11c (10 days) IEC 512 test number 11f (96 hours)

Sealed against dust

			PCI Features				
Designation	Termination	Contact Type	I/O Protect	Security Cover	Total Height (mm)	Dimension	PCB version
CCM02-2503LFT	THT	landing			6,25	38,5 X 55,6	4 clips
CCM02-2504LFT	SMT	landing			6,25	38,5 X 55,6	4 clips
CCM02-F503LFT	THT	friction			6,25	38,5 X 55,6	4 clips
CCM02-F504LFT	SMT	friction			6,25	38,5 X 55,6	4 clips
CCM02-F844LFT	SMT	friction	Yes	Yes	6,6	40,5 X 58	4 metal pegs



PCI: I/O Protect

Definition

Special accessory in order to avoid and detect frontal access to data contact. It is electrically connected to the PCB through spring finger contacts.

Process

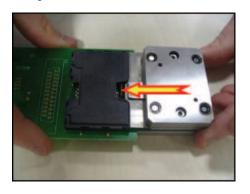
It must be in open position during the reflow soldering of the connector and has to be locked in closed position after soldering.

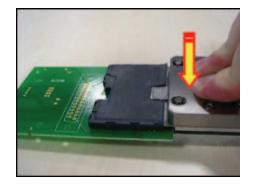




I/O Protect locking tool

C&K is proposing a manual tool to lock the I/O protect accessory after soldering. Ordering code: C-CM02-E50





PCI: Security Cover



Definition

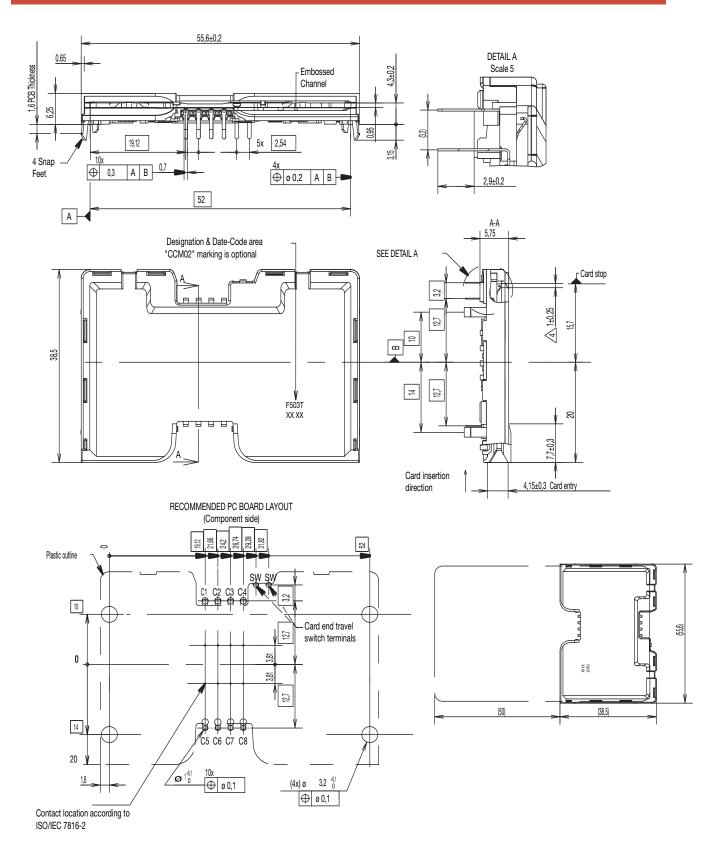
It is a multilayer cover placed over the connector to avoid and detect data contact access, especially from the top. It is connected to the PCB through 6 SMT terminals that are soldered at the same time as the other smart card terminals.

Process

Please contact your Sales Representative for advice and recommendations about soldering this version.



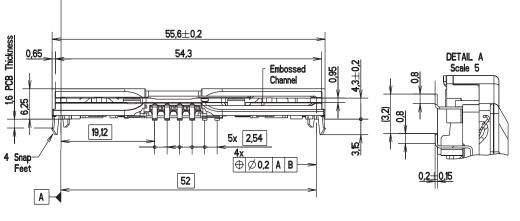
CCM02-2503 LFT / CCM02-F503 LFT

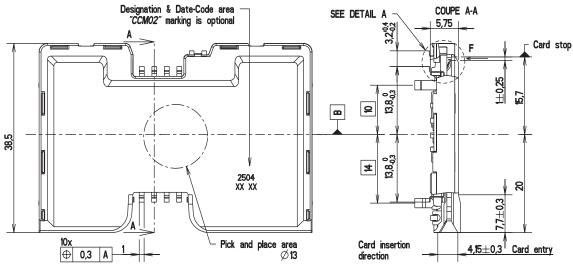


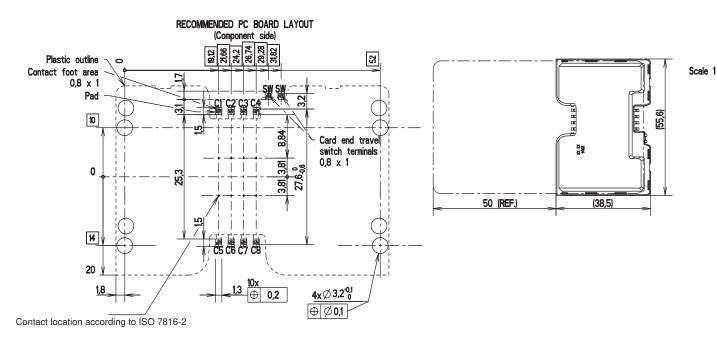




CCM02-2504 LFT / CCM02-F504 LFT





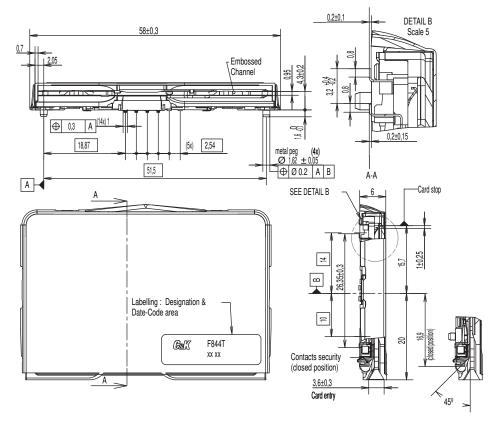


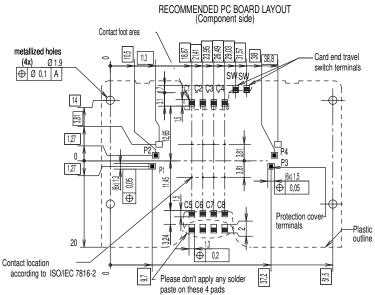


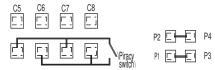
First Angle Projection

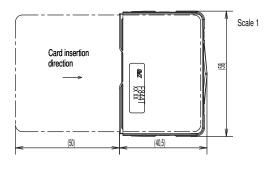
Dimensions are shown in mm Specifications and dimensions subject to change

CCM02-F844A LFT / CCM02-F844B LFT













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