



# CCM05 SD, MMC & miniSD

For one of the most common card formats, we offer various reading options in a small and sturdy packaging. This includes the smaller standard of the miniSD, designed for the mobile communication needs.

## Features

- Accept both MMC and SD card (except 5502)
- Standard and reverse reading
- Long or short cover
- Smooth push push mechanism
- Card detect and write protect switches
- Front metal tab for better PCB tear-off resistance
- Front cover retention for temper resistant card entrance
- Low profile push push connectors (2.65 mm for SD, 2.10 mm for miniSD)

## Physical Data

|                                   |                                      |
|-----------------------------------|--------------------------------------|
| Contacts                          | Phosphor bronze                      |
| Contact finish (towards the card) | Gold over nickel                     |
| Write protect contact             | Copper alloy / nickel overall finish |
| Card detect contact               | Copper alloy / nickel overall finish |
| Contact finish (towards the PCB)  | Gold over nickel                     |
| Metal cover                       | Copper alloy / nickel plated overall |
| Cover ground tails                | Gold plated over nickel              |
| Molding                           | High temp. Thermoplastic, UL 94V-0   |

## Mechanical Data

|                                        |                                                                                                                                   |
|----------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|
| Number of contacts                     | 7 (MMC), 9 (SD), 10 (miniSD)                                                                                                      |
| Operating life standard & reverse type | ≥ 10,000 cycles                                                                                                                   |
| Operating life push-push type          | ≥ 5,000 cycles                                                                                                                    |
| Contact force (signal contact)         | 0.20 N min.                                                                                                                       |
| Card insertion force                   | 40 N max.                                                                                                                         |
| Card withdrawal force                  | 2 N min.                                                                                                                          |
| Vibration                              | According to IEC 512 part 4, test 6d.<br>10 to 500 Hz / 50m/s <sup>2</sup> / 3 axis / 2 hours per axis<br>No discontinuity > 1 μs |
| Mechanical shock                       | Peak value 500 m/s <sup>2</sup> 11ms. 3 shock in each direction of each axis. No electrical discontinuity 1 μs.                   |

## Contact Electrical Data

|                       |                 |
|-----------------------|-----------------|
| Voltage / ct          | ≤ 5 Vdc         |
| Current / ct          | ≤ 500 mA        |
| Contact resistance    | ≤ 100 milliohms |
| Voltage proof         | ≥ 500 Vrms      |
| Insulation resistance | 1000 MΩ min.    |

## Environmental Data

|                       |                                                                                    |
|-----------------------|------------------------------------------------------------------------------------|
| Operating temperature | -25°C / +85°C                                                                      |
| Storage temperature   | -40°C / +85°C                                                                      |
| Soldering temperature | 230°C / 5 sec according to MIL-STD-202F, method 208                                |
| Moisture resistance   | 40°C / 93% HR / 96 hours. According to MIL-STD-202F, method 103B, test condition B |
| Corrosion             | 48 hours according to IEC 512 test 11f                                             |

## Ordering Code

|                 |                                   |
|-----------------|-----------------------------------|
| CCM05-5502 R901 | MMC card 2 pegs short cover       |
| CCM05-5761 R601 | SD card & MMC stand off           |
| CCM05-5770 T48  | SD card & MMC 2 pegs with chamfer |
| CCM05-5772 T45  | SD card & MMC 2 pegs push-push    |
| CCM05-5773 T50  | miniSD card                       |
| CCM05-5775 T48  | SD card & MMC 2 pegs              |
| CCM05-5776 T50  | miniSD card push-push             |
| CCM05-5777 T50  | SD card & MMC 2 pegs short cover  |
| CCM05-5778 T45  | SD card 2 pegs reverse            |

## Packaging

Please look at part number designation to determine packaging:  
T = Tray R = tape on reel - please contact Customer Service for quantity.

Cannon







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