

## TECHNICAL CHARACTERISTICS

### 1. General Characteristics

Dimension: 14.50L x 13.60W x 1.85H mm  
 Weight: Approx. 0.42 g  
 Contact principle: Friction technology  
 Operating position: Shaft up / Down / Horizontal  
 Mounting System: SMT Type (without post)  
 Durability: 5,000 cycles min.

### 2. Mechanical Characteristics

Insulation material: Thermoplastic, UL 94V-0  
 RoHS Directive 2002/95/EC Compliant

### 3. Electrical Characteristics

Number of contacts: 8 pins  
 Contact resistance: 100 mΩ / 20 mA  
 Insulation resistance: >1000 MΩ / 500 VDC

### 4. Solderability

Wave: Not applicable  
 IR reflow: 260°C, 10 sec. Max.  
 Manual soldering: 360°C, 3 sec. Max.

### 5. Environmental Characteristics

Operating temperature: - 25°C ~ + 85°C  
 Operating humidity: 10 % ~ 95 % RH  
 Storage temperature: - 40°C ~ + 85°C  
 Storage humidity: 10 % ~ 95 % RH

### 6. Pin Assignments

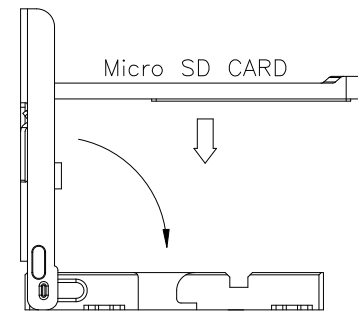
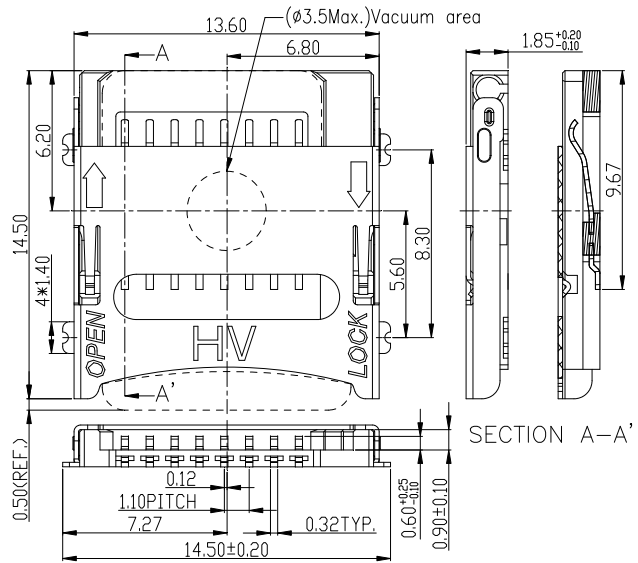
| Pin | Micro SD Mode |                                 |
|-----|---------------|---------------------------------|
|     | Name          | Description                     |
| 1   | DAT2          | Data Line (Bit 2)               |
| 2   | CD/DAT3       | Card Detect / Data Line (Bit 3) |
| 3   | CMD           | Command Response                |
| 4   | VDD           | Supply Voltage                  |
| 5   | CLK           | Clock                           |
| 6   | VSS           | Supply Voltage Ground           |
| 7   | DAT0          | Data Line (Bit 0)               |
| 8   | DAT1          | Data Line (Bit 1)               |

**H&V Micro SD Card Connector**

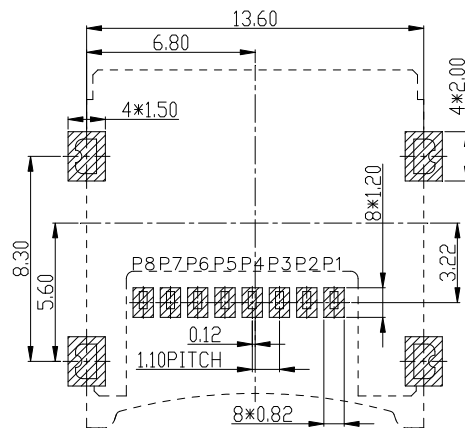
**Model No.: MCA-T01**

**Revision: 1.6**

**Date: JAN. 01, 2011**



Unit: mm; Tolerances: ±0.15 mm  
**Mechanical outline dimension**



Unit: mm; Tolerances: ±0.05 mm  
**Reference dimension for PCB layout**