

## TECHNICAL CHARACTERISTICS

### 1. General Characteristics

Dimension: 13.80L x 16.00W x 1.80H mm  
 Weight: Approx. 0.50 g  
 Contact principle: Friction technology  
 Operating position: Shaft up / Down / Horizontal  
 Mounting System: SMT Type (without post)  
 Function: Push Push Type  
 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: 10 pins  
 Contact resistance: 100mΩ / 20mA  
 Insulation resistance: >1000 MΩ / 500 VDC  
 Blade Switch: Normally Open

### 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

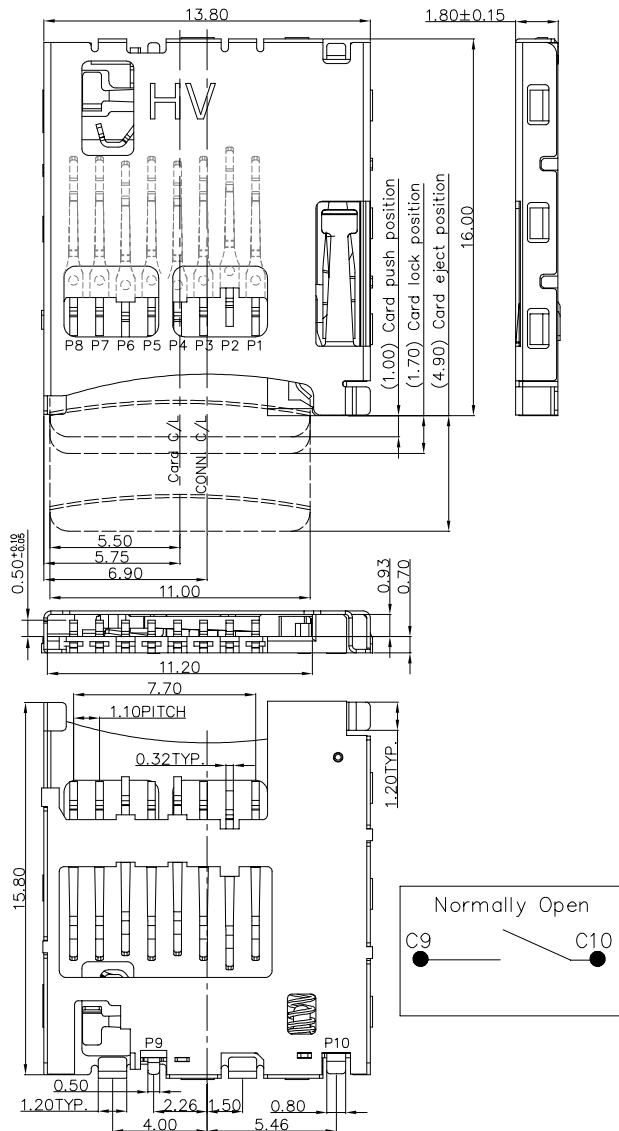
Pin	Micro SD Mode	
	Name	Description
1	DAT2	Data Line (Bit 2)
2	CD/DAT3	Card Detect / Data Line (Bit 3)
3	CMD	Command Response
4	VDD	Supply Voltage
5	CLK	Clock
6	VSS	Supply Voltage Ground
7	DAT0	Data Line (Bit 0)
8	DAT1	Data Line (Bit 1)
9	Switch1	Normally Open
10	Switch2	Normally Open

**H&V Micro SD Card Connector**

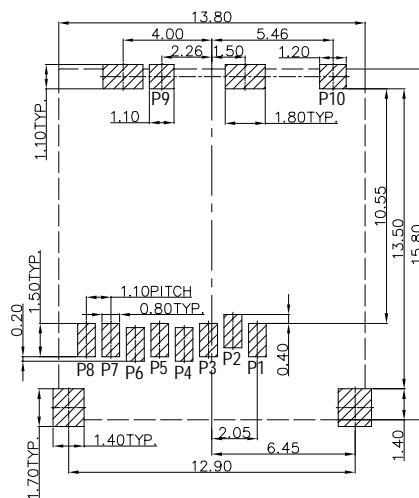
**Model No.: MCA-T03**

**Revision: 1.0**

**Date: OCT. 25, 2007**



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



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

Must keep minimum 0.2mm gap above connector to assure the push function in good condition.