

## TECHNICAL CHARACTERISTICS

### 1. General Characteristics

Dimensions: 11.10L x 7.60W x 1.50H mm  
 11.10L x 7.60W x 1.70H mm  
 11.10L x 7.60W x 1.80H mm  
 11.10L x 7.60W x 1.90H mm  
 11.10L x 7.60W x 2.00H mm  
 11.10L x 7.60W x 2.40H mm  
 11.10L x 7.60W x 2.60H mm

Weight: Approx. 0.20 g

Contact principle: Friction technology

Operating position: Shaft up / Down / Horizontal

Mounting System: SMT without post

Durability: 10,000 cycles min.

### 2. Mechanical Characteristics:

Insulation material: Thermoplastic, UL 94V-0

### 3. Electrical Characteristics

Number of contacts: 6 pins

Contact resistance: 50 mΩ typical, 100 mΩ max.

Insulation resistance: > 1000 MΩ / 500 VDC

### 4. Solderability

Wave: Not applicable

Vaporphase: 215°C, 30 sec. Max.

IR reflow: 230°C, 15 sec. Max.

Manual soldering: Not applicable

### 5. Environmental Characteristics

Operating temperature: - 40°C ~ + 85°C

Operating humidity: 10 % ~ 95 % RH

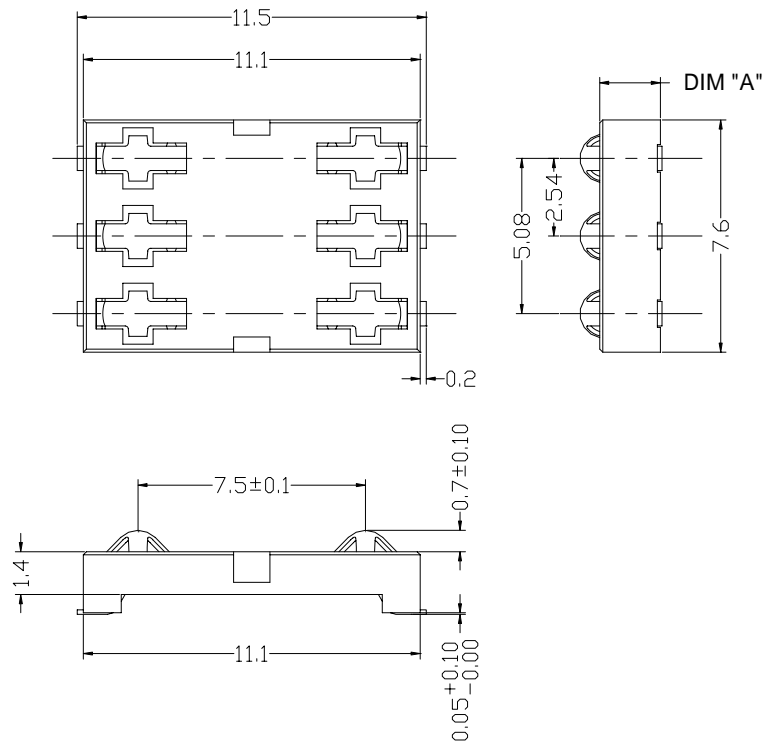
Storage temperature: - 40°C ~ + 85°C

Storage humidity: 10 % ~ 95 % RH

Thermal shock: - 40°C ~ + 85°C, 5 cycles

Damp Heat: 40°C, 90 % RH, 500HR.

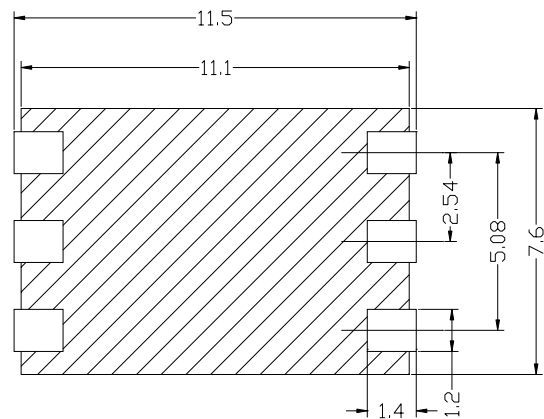
Salt-mist: 35°C, 5%, NaCl, 48HR.



DIMENSION A=1.5, 1.7, 1.8, 1.9, 2.0, 2.4, 2.6 mm

Unit: mm; Tolerances: ±0.10mm

**Mechanical outline dimension**



Unit: mm; Tolerances: ±0.10mm  
**Reference dimension for PCB layout**

**H&V Smart Card Connector**

**Model No.: ICC-409**

**Revision: 1.4**

**Date: MAR. 22, 2004**