

# NJY Technology Co.,Ltd



## Specification of Surface Acoustic Wave RS232 Control Board

Model: SAW-RS232

This specification applies to the following RS232 Control Board for Surface Acoustic Wave Touch Panel.

## Electrical Characteristics

### Power Supply

+12V DC , (+11V DC to +13 V DC)

100 mA , typical at +12 DC.

Supply must be capable of sourcing 200 mA, minimum

### Interface

USB1.1

Plug and play compatible

### Touch Resolution

4096x4096, size independent, 256 levels of Z axis(pressure)

### Conversion Time

Less than 16 ms per coordinate set (including transmitting time)

### Reliability

MTBF greater than 200,000 Hours , per MIL-HDBK-217-F2 using the part stress calculation method for round benign environment with an ambient temperature of 25°C.

## Environmental Conditions

### Temperature

Operating Temperature Range: 0°C ~ 65°C

Storage Temperature Range: -25°C ~ 85°C

### Humidity

Operating Humidity Range: 10% to 90% , no dew falls

Storage Humidity Range: 10% to 90% , no dew falls

### ESD

Per EN 61000-4-2 Contact discharge 8kV, air discharge 15kV

### Flammability

- The printed circuit board substrate is rated 94V0. All plastic components, such as headers and connectors, are also rated 94V0.

## Mechanical Characteristics

### Construction

Multi-layer surface-mount design with internal ground plane for EMI suppression Supply Voltage and Current +12 VDC,

80 mA, typical at +12 VDC. Average power dissipation is 1 W, typical.

Supply must be capable of sourcing 200 mA, minimum.

### Dimensions

Width: 85 mm,

Length: 62 mm

Height: 10 mm