

## ■ Guaranteed Items

### 1. Maximum Rating

The table below shows standard use conditions, although depending on the device they will differ. The values in the table indicate the “absolute maximum rating” that must never be exceeded.

If the maximum rating is ever exceeded, even for the shortest time, the device may be destroyed, deteriorate, or its life may be shortened. In addition, these maximum rating items are closely related to each other, and each value is approved separately.

Please contact us separately if you would like to use your device with values exceeding those shown in the table.

Applied DC voltage	Max. 3 V between terminals
Maximal input	Max. 0.1 mW (−10 dB)

### 2. Reliability

A variety of tests, ensure the thorough checking and maintenance of our guaranteed level of quality reliability.

The test items shown in the table below are guaranteed as standard for surface-mount SAW filters.

Please contact us if you would like to know separately specified test items and conditions for specific model names.

NO.	Test Items	Conditions
1	Vibration resistance	Frequency: 10 to 55 Hz, total amplitude: 1.5 mm, two hours for three directions, six hours in total
2.	Drop impact resistance	Dropped three times from a height of 75 cm onto a hard wooden board
3.	Shock resistance	980 m/s <sup>2</sup> , 6 ms, sawtooth wave, three times for six directions, 18 times in total
4.	Thermal shock resistance	−40/+85 °C, 30 minutes for each temperature, 25 cycles (gas phase, nonactive)
5.	Solder heat resistance	Subject to an atmosphere of 260±5 °C for 10±1 seconds
6.	Soldering property	Immersed in a solder bath with a temperature of 245 °C for 5±1 seconds
7.	High temperature test	Subject to a temperature of +85 °C for 100 hours (nonactive)
8.	Low temperature test	Subject to a temperature of −40 °C for 100 hours (nonactive)
9.	High temperature and high humidity resistance	Subject to a temperature of +40 °C and humidity of 90 to 95 % for 250 hours (nonactive)

### 3. Quality Assurance of Shipped Products

At the end of our manufacturing process, to ensure the quality of our products, all finished devices are checked to ensure they meet our in-house specifications, such as external appearance and electric performance, and any other general industry specifications.

In addition, our quality assurance division assesses such factors as reliability and whether our products meet the individual requirements of our customers.